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Engineering & Environmental Services

A Report Prepared for:

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PHASE I ENVIRONMENTAL SITE ASSESSMENT
6701, 6705, and 6707 SHELLMOUND STREET
EMERYVILLE, CALIFORNIA

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1.0 INTRODUCTION

1.1 Purpose and Scope of Work

This report presents the results of a Phase I Environmental Site Assessment (ESA) for the commercial property located at 6701, 6705, and 6707 Shellmound Street in Emeryville, California (the subject property or site). The site location is shown on Plate 1, and the subject property and vicinity are shown on Plates 2 and 3. PES Environmental, Inc. (PES) was retained to compile and evaluate available information to assess for Recognized Environmental Conditions[1] (RECs) associated with the site. PES understands that AvalonBay Communities, Inc. (AvalonBay), for who this report was developed, is evaluating acquisition and redevelopment of the subject property. The current site owner is Nady Systems, Inc. (Nady) or an associate entity.

The ESA was performed in general accordance with ASTM International guidelines for Phase I Environmental Site Assessments (ASTM E 1527-05). These guidelines comply with the U.S. Environmental Protection Agency's All Appropriate Inquiries (AAI) rule adopted in November 2005[2]. The following tasks were conducted during this ESA:

- Federal, State and local agency databases were reviewed to identify nearby sites which have reported the use, storage, or release of hazardous materials;
- Regulatory agency records regarding the site and adjacent properties were reviewed;
- Historical aerial photographs, Sanborn Fire Insurance maps, historical topographic maps, and city address directories of the site and surrounding area were evaluated, as available, to assess prior land uses;
- Historical research was conducted and historical information for the site was reviewed;
- An environmental database search was obtained and reviewed, which included search radii as required by AAI;
- Individuals with knowledge of the site were interviewed;

[1] A REC is defined in the American Society for Testing and Materials guidelines for Phase I Environmental Site Assessments (ASTM E 1527-13) as *the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property due to release to the environment; under conditions indicative of a release to the environment or under conditions that pose a material threat of future release. De minimis conditions are not recognized environmental conditions. De minimis conditions are 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 government agencies.*

[2] This ESA was also prepared in conformance with ASTM E-13.

- An inspection of the site and a reconnaissance of surrounding properties were performed to assess the potential for contamination of the site from on-site or off-site sources. The site inspection was conducted by an environmental professional with qualifying experience; and

- This report was prepared presenting the results of the Phase I ESA investigation.

1.2 Special Terms and Conditions

The ESA activities were conducted in general accordance with ASTM E1527-05 and ASTM E1527-13.

1.3 Limitations and Exceptions

This Phase I ESA was performed in accordance with practices and procedures generally accepted in the consulting environmental engineering profession at the time and place they were performed. The findings, opinions, conclusions, and recommendations expressed herein are applicable as of the date the services were provided. Our professional judgment to assess the potential for contamination is based on limited data; no warranty is given or implied.

The Phase I ESA was prepared for use by AvalonBay. Except for related financial, insurance or associated companies, no other party may rely on this report without the express written permission of PES.

2.0 USER PROVIDED INFORMATION

2.1 Title Records

Title records were not provided to PES for the preparation of this Phase I ESA.

2.2 Environmental Liens or Activity and Use Limitations

As discussed in Section 4.12, a deed notice has been recorded for the subject property. The deed notice imposes conditions and/or restrictions on the use of the subject property.

2.3 Specialized Knowledge

No user-provided specialized knowledge was provided. PES does not possess any specialized knowledge regarding the subject property. PES acts as the consultant to AvalonBay on the subject property and has acted in that capacity since July 2013.

2.4 User Questionnaire

PES provided AvalonBay with a User Questionnaire as recommended in the ASTM guidelines for Phase I ESAs (ASTM E1527-05 and ASTM E 1527-13). This questionnaire, completed by the party who will rely on the ESA, facilitates the transfer of known site information to the environmental professional and promotes qualification of the relying party for one of the *Landowner Liability Protections (LLPs)*[3] offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *"Brownfields Amendments"*). A copy of the completed User Questionnaire is provided in Appendix A.

2.5 Commonly Known or Reasonably Ascertainable Information

Any commonly known or reasonably ascertainable information provided to PES during the preparation of this Phase I ESA is presented within this report.

2.6 Valuation Reduction for Environmental Issues

PES was not provided information regarding the purchase price of the subject property nor prices of comparable properties in the site vicinity. An evaluation of the purchase price to those of comparable properties should be conducted by the user of this Phase I ESA, in accordance with AAI.

2.7 Owner, Property Manager, and Occupant Information

PES submitted a Site Use Questionnaire to the owner's representative. A copy of the completed Site Use Questionnaire is provided in Appendix A.

2.8 Reason for Performing Phase I

PES understands the Phase I ESA was performed as a component of AvalonBay's pre-acquisition due diligence.

3.0 SITE DESCRIPTION

3.1 Location and Description

The facility is located at 6701, 6705, and 6707 Shellmound Street (previously known as Bay Street), in Emeryville, Alameda County, California. As shown on Plate 3, the site buildings consist of a two-story office building and a warehouse building. A second story

[3] *Landowner Liability Protections,* or *LLPs,* is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* (*"Common Elements"* Guide) issued on March 6, 2003.

mezzanine-level area is located in the northern portion of the warehouse. The warehouse and office building are connected by a 1-story lobby/receptionist area. The exterior of the subject property consists of landscaped areas and asphalt paved parking and driving areas. The site consists of a single legal parcel covering approximately 2.27 acres and identified by Alameda County Assessor's Parcel Number (APN) 049-1490-002.

The site is bounded to the west and north by the Ashby Avenue off-ramp from Interstate 80, to the south by a commercial building, and to the east by Shellmound Street and a railroad right-of-way. The site building and the adjacent areas are shown on Plates 2 and 3.

3.2 Site and Vicinity Characteristics

The subject property is accessed via driveways off Shellmound Street. The site is in an urban area that is mixed industrial, commercial, and residential use within the City of Emeryville and County of Alameda, California.

According to the United States Geological Survey (USGS) *Oakland West, California* Quadrangle 7.5-minute series topographic map dated 1993, the site is situated at an elevation of approximately 18 feet above mean sea level. The site is relatively flat, but the vicinity slopes gently to the west/southwest.

3.3 Regional Geology and Hydrogeology

Based on the results of investigations performed on the subject property and in the vicinity, the site is underlain by imported fill material overlying deposits of native silts and clays known locally as Bay Mud. Beneath the Bay Mud deposits are deposits of stiffer sand, silts, and clays that likely represent alluvial deposits of the Temescal Formation (URS, 2005). During the later part of the 1930's through the early to mid-1950s, the subject property and vicinity were filled in by non-native soils to create buildable land (refer to Section 3.6). The fill material generally consists of coarse-grained sands and gravels that contain varying amounts of fines, and fine-grained silts and clays. Fill material debris[4] has been encountered throughout the site (PES, 2013b). According to the Survey Geographic Database (SSURGO), the U.S. Department of Agriculture, Soil Conservation Service classifies these soils as urban land soils.

The City of Emeryville is located along the southwestern margin of the Berkeley Alluvial Plain, which is a sub-area of the East Bay Plain. The two main water-bearing zones beneath Emeryville include a shallow aquifer (less than 60 feet below surface grade) and a deep aquifer (200 to 300 feet below surface grade). Groundwater was encountered at the site at approximately 11 to 13 feet below ground surface (bgs) in November 2013 (PES, 2013b). Groundwater flow to the south/southwest has been measured from monitoring well data collected on the subject property (Subsurface Consultants, Inc., 1995b; 1995c; 1996), with localized flow toward the west in the vicinity of the former underground storage

[4] Debris material includes brick, wood, concrete rubble, asphalt, metal debris, glass, fabric, and rubber.

tanks (see Plate 3 for location of USTs, which are discussed in Sections 3.6.2 and 4.0). The assessment that groundwater flow to the south/southwest agrees with flow directions obtained on properties to the south of the subject property (Erler & Kalinowski, Inc. [EKI], 2012 and PES, 2013a).

The Federal Emergency Management Agency (FEMA) map for the subject property area shows the subject property is not within a 100- or 500-year year flood zone. According to the U.S. Fish and Wildlife 2002 National Wetlands Inventory, there are no wetlands present at the subject property.

The closest surface water body is the San Francisco Bay, located approximately 0.2 miles to the west.

3.4 Descriptions of Existing On-Site Structures and Improvements

3.4.1 Structures and Current Use

The subject property is presently developed as a two-story office building and a warehouse building, which are connected by a 1-story lobby/receptionist area (Plate 3). A second story mezzanine-level area is located in the northern portion of the warehouse. The footprints of the office and warehouse buildings occupy approximately 7,479 and 98,775 square feet, respectively. The warehouse building has a slab-on-grade foundation and is steel-framed with pre-fabricated concrete walls. The office building also has a slab-on-grade foundation and is steel-framed. The walls of this building are comprised of either concrete or glass framing (i.e., second floor of building). The site is currently used for offices and for storage of electronic sound equipment, shipping and receiving of new products, and minor equipment repair.

3.4.2 Other Improvements

Gas and electric service are provided by Pacific Gas & Electric (PG&E). Potable water and sanitary sewer services are provided by the East Bay Municipal Utilities District.

3.5 Current Uses of Adjoining Properties

A reconnaissance of the surrounding area was completed on November 25, 2013 to assess whether neighboring sites represent a potential environmental condition that could affect the subject site. The current uses of the adjoining properties as observed during the reconnaissance are summarized below (refer to Plate 2).

Properties to the North

The site is bounded to the north by the Ashby Avenue on- and off-ramps for Interstate 80. Farther north is a radio communication tower and the Berkeley Aquatic Park.

Properties to the East

The site is bounded to the east by Shellmound Street. Farther east is a railroad right-of-way, and then an area occupied by commercial/industrial buildings.

Properties to the South

The site is bounded to the south by a commercial building that is occupied by Ex'pression College (6601/6603 Shellmound Street). Farther south is a Public Storage self-storage facility (6501 Shellmound Street) and a commercial building that is occupied by various tenants (1650 65th Street).

Properties to the West

The site is bounded on the west by the Ashby Avenue off-ramp from Interstate 80 and then by Interstate 80.

3.6 Past Uses of Property and Adjoining Properties

Historical site use information was obtained through a review of aerial photographs, historical topographic maps, historical Sanborn Fire Insurance maps, city address directories, and results of previous investigations.

3.6.1 Historical Sources

Site use information was obtained through a review of the following list of historical sources. The results of the review of these sources are summarized in Section 3.6.2.

- **Aerial Photographs:** Aerial photographs obtained from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut were reviewed for the following years: 1939, 1946, 1958, 1968, 1974, 1984, 1993, 1999, 2005, 2009, 2010, and 2012. Aerial photographs were also obtained from Photo Science, Inc. of Emeryville, California for the following years: 1930, 1947, 1953, 1957, 1959, 1969, and 1977. A summary of the aerial photograph review and copies of these photographs are presented in Appendix B;

- **Sanborn Fire Insurance Maps:** Sanborn Fire Insurance Maps obtained from EDR of were reviewed for the following years: 1903, 1911, 1950, 1952, and 1967. A summary of the Sanborn Fire Insurance maps review and copies of these maps are presented in Appendix C;

- **Topographic Maps:** Various topographic maps of the subject property vicinity were compiled by EDR. The following maps were included in the compilation; USGS *San Francisco, California* Quadrangle 15-minute series topographic maps produced in 1895, 1915, and 1948; and USGS *Oakland West, California* Quadrangle 7.5-minute series topographic maps produced in 1949, 1959, 1968 photorevised from 1959, 1973 photorevised from 1959, 1980 photorevised from 1959, and 1993 were reviewed by PES. A summary of the topographic map review and copies of the maps are presented in Appendix D;

- **City Directories:** A search of city directories was performed by EDR for the years from 1920 through 2013 in intervals ranging from approximately 1- to 5-years. A summary of the city directories review and copies of the directory listings are presented in Appendix E;

- **Emeryville Planning and Building Department (EPBD):** Permit on files with the EPBD for the site consisted of electrical, mechanical, plumbing, and construction permits, and the associated inspection notes. No issues of potential environmental concern were identified in the Emeryville building department files;

- **Emeryville Fire Department (EFD):** George Warren with the Alameda County Fire Department (ACFD) indicated that the EFD consolidated with the ACFD in July 2012. Mr. Warren indicated that EFD files associated with hazardous materials information will be found in the files at the Alameda County Department of Environmental Health (ACDEH);

- **ACDEH:** The ACDEH has numerous files on record for the subject property. Pertinent information related to the site's historical use is incorporated into the discussions in Sections 3.6.2 and 4.0; and

- **Interviews:** PES interviewed available persons with knowledge concerning the historical use of the property. Information obtained from interviews was incorporated in the historical summary, presented below.

3.6.2 Historical Review Summary

Subject Property

The following provides historical use information for the subject property based on available historical resources listed in the previous sections.

The earliest reviewed record for the site is an 1895 topographic map, which shows the site was part of San Francisco Bay. A wharf structure, which is occupied by a hide warehouse, is shown in the central portion of the subject property on the 1903 and 1911 Sanborn maps, and a short east/west trending pier structure that housed a salt water pump house is shown on the 1911 Sanborn map. The 1930 and 1939 aerial photographs also show what appears to be

an east/west trending pier structure in the northern portion of the site. The land on which the subject property is located historically consisted in large part of San Francisco Bay tidal mud flats and was below sea level until the mid- to late 1930's. In the mid- to late 1930's, a levee was built west of the subject property and a highway (Eastshore Highway, now Interstate 80) was constructed on the levee. Initially, water filled the area between the highway and the former shoreline. From that time until the early to mid-1950s, the subject property and vicinity were filled in by non-native soils to create buildable land. The fill area extended from Ashby Avenue just north of the subject property to approximately 62nd Street on the south. The 1939 aerial photograph shows this highway and filling taking place south of the subject property. As shown in the 1946 and 1947 aerial photographs, a majority of the area south of the site has been filled and most of the filling activities are taking place in the vicinity of the site, including the southern portion of the site (see 1947 aerial photograph). It appears that the fill material extended above sea level by 1949 as indicated by the 1949 topographic map. The 1946, 1947, and 1953 aerial photographs show a small building and a pier structure (shown on the 1911 Sanborn map, and 1930 and 1939 aerial photographs) in the northern portion of the site. The 1950 and 1952 Sanborn maps still show the same warehouse building shown on the 1903 and 1911 Sanborn maps, and these maps also show the pier and saltwater pump structures discussed above. The current site buildings were constructed in approximately 1963. It appears that an area on the western exterior side of the warehouse building is being used for storage on the 1977 aerial photograph. This appears to be the drum storage area shown on Plate 3.

Dymo Industries, Inc. (Dymo) operated at the site from approximately 1963 to 1979, when the property was sold to Mike Roberts Color Productions (MRCP) and its affiliated partnership, MRCP Realty Company. Dymo manufactured label tape and label tape punchers and used methyl isobutyl ketone (MIBK, which is also known as 4-methyl-2-pentanone) and methyl ethyl ketone (MEK, which is also known as 2-butanone) in the manufacturing processes (Bechtel, 1992). These chemicals were stored in three USTs that were located in the eastern portion of the site near Shellmound Street (UST locations shown on Plate 3). As discussed in Section 4.0, the USTs were removed in 1989.

MRCP operated at the site from 1979 to 1989, and initially manufactured and printed colored postcards. They later expanded into color printing, lithography, and off-set printing operations (Bechtel, 1992). These operations produced waste that included printing ink, solvent cleaning compounds, volatile and semivolatile hydrocarbons, and color pigments, which were stored in 55-gallon drums on the west side of the warehouse building (i.e., in the former drum storage area shown on Plate 3).

Nady purchased the property from MRCP in 1990. Nady packages and distributes communication systems, such as wireless microphones and specialty audio systems, from the facility. Nady originally leased a portion of the warehouse to a ceramic tile distributor, Richards and Sterling, but eventually the Nady operation expanded to include the entire warehouse. As discussed in Section 3.6.3, Nady has used very limited amounts of chemicals in its operations.

Subject Property Vicinity

In general, the area east of the subject property vicinity has been used for commercial/industrial purposes since at least 1903 (see 1903 Sanborn map). The railroad tracks just east of the site have existed since at least 1895 (see 1895 topographic map). As discussed above, the land north and south of the site consisted in large part of San Francisco Bay tidal mud flats and was below sea level prior to the construction of the levee and highway in the mid- to late 1930s. During the later part of the 1930's through the early to mid-1950s, the area between the site and 62nd Street was filled in by non-native soils to create buildable land. The buildings directly south of the subject site were constructed sometime between 1953 and 1959. However, the current Public Storage facility does not appear until the 1977 photograph.

3.6.3 Interviews

Mr. John Nady of Nady Systems, Inc., the property owner, was interviewed by Mr. Gary Thomas of PES on November 25, 2013. Mr. Nady indicated that the site was acquired from MRCP in 1990. Nady currently uses the site for offices and for storage of electronic sound equipment, shipping and receiving of new products, and minor equipment repair. Mr. Nady stated that their operations have been similar through time and that chemical use and storage has been limited to small quantities of paints, oils/lubricants, part cleaning solutions (e.g., isopropyl alcohol), and janitorial cleaning supplies. He indicated that during their occupancy, manufacturing involving chemical processes has not occurred. Historical chemical use prior to Nady's occupancy is discussed in Sections 3.6.2 and 4.0.

4.0 PREVIOUS ENVIRONMENTAL DOCUMENTS

Based on a review of historical site documents, several environmental site assessments, sampling investigations, groundwater monitoring events, and remedial actions have been conducted at the site. A summary of these activities is presented below. Copies of the environmental reports discussed below are included in Appendix F (provided on CD-ROM). Pertinent data gather during the investigations discussed below can be found in the figures, tables, and appendices of these reports.

The ACDEH inspected the MRCP facility in January 1989, and subsequently issued MRCP a Notice of Violation under four sections of the California Code of Regulations (CCR), Title 22. The violations included citations for lack of an EPA identification number, no copies of hazardous waste manifests on-site, on-site storage of hazardous waste for more than 90 days, and hazardous waste storage areas that lacked secondary containment (ACDEH, 1989).

4.1 1989 Waste Characterization and Disposal, and Sampling Activities

LW Environmental Services, Inc. (LW Environmental) conducted the following sampling activities in March and April 1989:

- Sampled 90 drums of hazardous waste stored at the west end of the printing facility (i.e., area labeled on Plate 3 as former drum storage area) on March 14 and 15, 1989. The drums contained waste associated with site operations conducted by MRCP; and

- Drilled two borings (IS-1 and IS-2) in the general vicinity of the stored drums on April 26, 1989.

Based on the analytical results the drums were profiled and properly disposed off-site at Gibson Oil & Refining in Bakersfield, California, in June 1989. The analytical results for the sample collected from borings IS-1 and IS-2 are discussed below.

4.2 1989 Environmental Site Assessment and Subsurface Evaluations

The discussion below summarizes the observations, analytical results, and findings presented in the following 1989 reports prepared by LW Environmental:

- *Environmental Site Assessment and Subsurface Evaluation – Mike Roberts Color Productions Property, 6707 Bay Street, Emeryville, California*. July 10 (LW Environmental, 1989b);

- *Supplemental Environmental Site Assessment and Subsurface Evaluation – Mike Roberts Color Productions Property, 6707 Bay Street, Emeryville, California*. August 25 (LW Environmental, 1989c); and

- *Environmental Site Assessment – Phase II Subsurface Evaluation - Mike Roberts Color Productions Property, 6707 Bay Street, Emeryville, California 94609*. September 26 (LW Environmental, 1989d).

LW Environmental inspected the site to assess the potential for contamination on March 13 and August 17, 1989. Areas of concern found during the site inspections included:

- The presence of two shallow compressor sumps used to collect discharged condensate from air lines. The sumps were connected to the municipal sewer system;

- Three USTs were discovered on the eastern side of the property. The removal of these USTs is discussed below;

- Four drains found in the mezzanine area of the warehouse channeled discarded chemical wastes into a sump located outside and along the western side of the warehouse. The sump was connected to the municipal sewer system. The sump area was excavated on August 21, 1989. The location of the sump excavation is shown on Plate 3. The confirmation sample from the sump was nondetect for purgeable organics; and

- A ditch area along the western side of the property line was also excavated to approximately 3 feet below grade on August 21, 1989. This was an area where runoff from the asphalt was channeled. Confirmation samples collected at 1 and 3 feet below grade were analyzed for purgeable organics. Ethylbenzene, total xylenes, and/or toluene were detected in these samples at maximum concentrations of 20 milligrams per kilogram (mg/kg), 360 mg/kg, and 80 mg/kg, respectively.

Between April 26 and August 31, 1989, LW Environmental drilled eight borings (IS-1, IS-2, and B-1 through B-6) and installed four groundwater monitoring wells (MW-1 in boring B-1, MW-3 in boring B-3, MW-5 in boring B-5, and MW-6 in boring B-6). Monitoring well MW-1 was sampled on July 8 and September 7, 1989, and the remaining wells were sampled on September 7, 1989. The analytical results for soil and groundwater samples collected from these locations are presented in the reports referenced above, which are included in Appendix F.

Based on the results of the investigation, LW Environmental recommended:

- Delineate and excavate the extent of shallow hydrocarbon contamination in the soil at the rear of the site; and

- Continue sampling of groundwater from existing wells to monitor contaminant concentrations (refer to Section 4.5).

4.3 1989 Underground Storage Tank Removal

On October 2, 1989, LW Environmental oversaw the removal of the contents of the three USTs located on the eastern side of the subject site (LW Environmental, 1989e). According to the Underground Tank Closure/Modification Plans form submitted to the ACDEH, the USTs historically contained solvents and had capacities of 1,650, 2,000, and 3,200 gallons. Approximately 1,075 gallons of liquid, which was profiled as MEK and water, was pumped from the USTs and transported off-site for disposal.

On October 5, 1989, the USTs were removed and transported off-site for disposal. Soil excavated during the removal was stockpiled on-site in a secure, fenced area. After the USTs were removed, soil confirmation samples were collected (under the direction of an ACDEH inspector) along the excavation walls at both ends of the USTs (sample IDs SS-1 through SS-6). The samples were analyzed for total petroleum hydrocarbons quantified as diesel (TPHd) and TPH quantified as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylene

(BTEX), and halogenated volatile organic compounds (VOCs). The confirmation samples analytical results indicated the presence of TPHg, TPHd, BTEX, 1,2-dichlorobenzene (1,2-DCB), 1,3-dichlorobenzene (1,3-DCB), 1,4-dichlorobenzene (1,4-DCB).

Based on a December 19, 1989 letter from SCS Engineers to Mr. John Nady, the soil that was excavated during the removal of the USTs was placed back into the excavation upon agreement with LW Environmental (SCS Engineers, 1989) because it contained "relatively high concentrations of methyl-isobutyl-ketone." SCS Engineers indicated in the letter that a soil vapor extraction system would be installed to remediate this soil.

4.4 1989 Phase I Review of Documents and Verification of Groundwater Flow

In November 1989, McLaren prepared a review of the environmental work performed to date at the site and verified groundwater flow direction (McLaren, 1989). The scope of work included a site visit (including a building walk through) and neighborhood drive-by, a review of published lists for known hazardous waste sites, surveying of four existing site groundwater wells, and measurement of the water levels in the wells to verify the groundwater flow direction.

Results of McLaren's work verified that the apparent groundwater flow direction is to the northwest in the vicinity of the USTs. Based on their findings, McLaren recommended:

- Further review of neighboring sites and historical chemical use to determine if off-site contamination is migrating onto the site;
- Further excavation in the UST area and additional soil and groundwater sampling in this area;
- Conduct a second round of sampling on the four on-site wells to establish baseline conditions; and
- Install wells and soil borings upgradient of Well MW-5 to determine whether contaminated groundwater is migrating onto the subject site from the adjacent 6601/6602/6603 Bay Street facility to the south.

4.5 1990 Environmental Assessment

SCS Engineers Environmental Assessment of the site consisted of: (1) performing an off-site records search and assessment, and a reconnaissance of the site and surrounding areas; and (2) conducting a subsurface investigation in January 1989. The results of their assessment are presented in the January 30, 1990 report titled *Environmental Assessment, 6707 Bay Street, Emeryville, California* (SCS Engineers, 1990). The subsurface investigation involved drilling five borings (i.e., B-9 through B-13) and installing two groundwater monitoring wells (i.e., MW-7 and MW-8). As recommended by LW Environmental in 1989, these monitoring

wells and the four existing wells (i.e., MW-1, MW-3, MW-5, and MW-6) were sampled as part of their investigation activities.

SCS Engineers concluded that their off-site records search and assessment indicated that there is a possibility that the site was being impacted by contamination from off-site sources and that the site may possibly be located over an abandoned landfill. Construction debris was found in the borings advanced during the investigation.

In summary, the subsurface investigation found contamination in vadose zone soil and groundwater beneath the site. Oil and grease (up to 45,000 mg/kg) was detected in all of the soil samples, and diesel (up to 5,050 mg/kg) and polychlorinated biphenyls (PCBs, up to 4.2 mg/kg) were detected in some of the soil samples. Metals were detected in most of the soil samples with lead concentrations as high as 3,000 mg/kg in boring B-12. Low levels of volatile (including MIBK at 8 mg/kg in well MW-8) and semi-volatile organic compounds (SVOCs) were also found in soil. The groundwater monitoring well samples detected little or no contamination in most of the wells except:

- Benzene in wells MW-5 (at 12 micrograms per liter [μg/L]) and MW-8 (up to 2,100 μg/L);
- Oil and grease at concentrations ranging from 500 μg/L (in well MW-1) to 103,000 μg/L (in well MW-8); and
- MIBK (160,000 μg/L) in well MW-8.

Based on the results of their investigation, SCS Engineers recommended the installation of soil vapor extraction system and groundwater extraction and treatment system in the vicinity of the former USTs to remove and treat MIBK in soil and groundwater, and installation of a system in the southwest portion of the site using either MW-5 or MW-7 to extract and treat groundwater.

4.6 1990 Preliminary Assessment

ICF Technology Incorporated (ICF) conducted a Preliminary Assessment (PA) of the subject property in 1990 on behalf of the U.S. Environmental Protection Agency (EPA) (ICF, 1990). The U.S. EPA requested the PA because the subject property was identified as a potential hazardous waste site and entered into the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) on February 13, 1989. The site was entered into the CERCLIS files in February 1989 due to a telephone complaint concerning the storage of drums behind the warehouse.

ICF's report discussed the site's facility process and waste management, apparent problems, regulatory involvement with the site, operation history, investigation efforts and results to date, and hazard ranking system factors, which assesses the relative threat associated with actual or potential releases of hazardous substances at the site.

Based on the report's findings, EPA recommended the site for low priority SSI (site status information).

4.7 1991 Interim Report for Construction and Operation of the Remediation Systems

SCS Engineers prepared this document to provide updated information regarding subsurface conditions beneath the site, and to discuss construction and operation of the remediation systems installed at the site (SCS Engineers, 1991). The report indicated that SCS Engineering had conducted the following work since January 1990:

- Pump test at MW-7 and MW-8 were conducted in July 1990;
- Construction of the remediation systems took place from June through September 1990;
- The vapor extraction and treatment system began operating in July 1990 and the groundwater extraction and treatment system began operating in October 1990; and
- The groundwater remediation effluent and influent were sampled in November and December of 1990 and the rate of flow from the system was measured to determine the amount of water being discharged to the landscaped area.

The report indicated a vapor extraction system was installed in the area of the former USTs, and groundwater extraction and treatment systems were installed in the vicinity of the UST excavation using well MW-8 as an extraction well and in the southwest portion of the site using MW-7 as an extraction well.

The vapor extraction system ran from late July to late September 1990 and the influent vapor stream readings dropped to 2 parts per million (ppm) before the system was shutdown to allow contaminants to buildup in the vicinity of the extraction wells. The report indicated that after the shutdown the system had not exceeded 10 ppm since October 22, 1990. Based on these results they concluded that the system appears to have been successful.

The report also discussed pre-remediation groundwater results for wells MW-7 and MW-8 versus results for samples collected 2-months into remediation. Lower TPH concentrations were detected in both wells, and lower concentrations of benzene and MIBK were detected in well MW-8.

4.8 1991 Investigation of Site Conditions Near Former USTs

PES prepared a report in 1991, which was addressed to the ACDEH, summarizing results of the investigation of site conditions in the vicinity of the former USTs (PES, 1991). The investigation consisted of:

- Drilling two soil borings (i.e., PB-1 and PB-2) in the area of the former USTs and collecting soil samples for chemical analysis; and
- Sampling three existing monitoring wells in the area of the former USTs to evaluate groundwater conditions.

No contaminants were detected in the soils in the vicinity of the former USTs. Based on these results PES concluded that the soil vapor extraction system appeared to have been effective in reducing MIBK concentrations in unsaturated soils in the vicinity of the former USTs. In the report, PES recommended that the ACDEH approve no further action with respect to soil contamination in the former UST area and allow the system to be abandoned.

The groundwater results indicated that detectable amounts of MIBK were present in the area of the former USTs. However, PES indicated that MIBK had not been detected in any well other than MW-8. Groundwater monitoring for three additional quarters was recommended.

4.9 1992 Site Inspection

Bechtel conducted an inspection of the subject property in 1992 on behalf of the U.S.EPA, Region IX (Bechtel, 1992). As discussed above, a PA of the subject property was conducted for the EPA by ICF in 1990.

The report indicated that the site had the following environmental conditions:

- MIBK, lead, copper, zinc, benzene, and toluene were detected in groundwater; and
- Subsurface soil sampling indicates the presence of zinc, lead, copper, benzene, toluene, ethylbenzene, xylenes, and MIBK.

Bechtel's report discussed the site's operational history, investigation efforts and results to date, and hazard ranking system factors, which assesses the relative threat associated with actual or potential releases of hazardous substances at the site.

Based on the report's findings, EPA recommended no further action was required under the authority of CERCLA.

4.10 1993 Treatment System Decommissioning

As discussed in the *Quarterly Groundwater Monitoring and Treatment System Decommissioning* prepared by Subsurface Consultants, Inc., the treatment systems were decommissioned in May 1993 (Subsurface Consultants, Inc., 1993a).

4.11 1994 Supplemental MIBK Contamination Assessment

Subsurface Consultants, Inc. conducted a supplemental investigation to further investigation the extent of MIBK in the vicinity of the former USTs (Subsurface Consultants, Inc., 1994c). The investigation involved:

- Drilling nine borings (i.e., T1 through T7 and the two well boreholes indicated below) to depths of approximately 15 feet bgs;
- Installing monitoring wells in two of the boring (i.e., MW-9 and MW-10);
- Sampling wells MW-8, MW-9, and MW-10 in April 1994, well MW-8 in May 1994, and wells MW-1, MW-3, MW-8, MW-9, and MW-10 in August 1994; and
- Performing slug tests in monitoring wells MW-3, MW-8, MW-9, and MW-10 to estimate the hydraulic conductivity of soils in the former UST area.

In soil, MIBK was detected in 5 of 16 samples at concentrations ranging from 6 micrograms per kilogram (μg/kg) to 7,800 μg/kg (in the 14 feet bgs sample collected from boring T7). In groundwater, MIBK was detected at concentrations ranging from 23 μg/L in well MW-10 (April event) to 140,000 μg/L in well MW-8 (May event).

Based on the results of the investigation Subsurface Consultants, Inc. concluded that significant soil and groundwater remediation has occurred in the area of the former USTs, but elevated levels of MIBK still remain, predominantly within clayey soil and in groundwater downgradient of the former USTs.

4.12 Deed Notice

A deed notice was provided to the ACDEH on February 1, 2005 as a requirement by the ACDEH and the California Regional Water Quality Control Board for the San Francisco Bay Region for closure of the UST case (Pettit & Martin, 1995). The deed notice imposed the following conditions and/or restrictions on the use of the property:

1. If soil is excavated, it may be considered hazardous waste under state and federal law;

2. Groundwater from the site is not usable for domestic, irrigation or industrial purposes;

3. If future construction includes structures extending below the ground level (that being approximately 7 to 10 feet), groundwater generated during dewatering operations will require treatment prior to discharge;

4. An approved Health and Safety Plan will be required by the Alameda County Health Care Services Agency (ACHCSA) prior to any work requiring significant subsurface excavations; and

5. An environmental risk assessment may be required by the ACHCSA if any significant change in land use is proposed.

Subsequently in December 1996, following the completion of groundwater monitoring activities at the site, the ACDEH issued a conditional site closure letter stating that further remediation and/or monitoring related to the former USTs removed from the site is not required, but the recorded deed notice must be modified to include the following risk management measures (ACDEH, 1996):

1. The shallow groundwater beneath the site shall not be used. This statement should replace condition #2 as recorded in the previous deed notice.

2. Appropriate Health and Safety plans shall be prepared prior to and followed during any activities involving exposure to pollution in soil or groundwater. This statement should replace condition #4.

3. A health risk assessment shall be required if a change in land use, structural configuration or site activities are proposed such that more conservative scenarios should be evaluated. This statement should replace condition #5.

4. Potential vertical conduits between the shallow and deep aquifers shall not be created. This statement should replace condition #6.

No information was obtained by PES that indicated the deed notice had been modified to be consistent with the December 1996 letter.

4.13 Groundwater Monitoring Activities

Groundwater monitoring reports prepared for the site include:

- Subsurface Consultants, Inc., 1993a. *Quarterly Groundwater Monitoring and Treatment System Decommissioning*. June 14.
- Subsurface Consultants, Inc., 1993b. *Quarterly Groundwater Monitoring, August 1993*. September 15.
- Subsurface Consultants, Inc., 1994a. *Quarterly Groundwater Monitoring, November 1993*. January 8.
- Subsurface Consultants, Inc., 1994b. *Quarterly Groundwater Monitoring, February 1994*. April 5.
- Subsurface Consultants, Inc., 1995b. *Groundwater Monitoring, February 1995 Event*. March 1.
- Subsurface Consultants, Inc., 1995c. *Groundwater Monitoring, November 1995 Event*. December 15.
- Subsurface Consultants, Inc., 1996. *Groundwater Monitoring - May 1996 Event, Request for "No Further Action*." June 21.

During the final monitoring event, which was conducted on May 9, 1996, water samples were collected from wells MW-1, MW-8, MW-9, and MW-10. Constituents detected during this event included:

- MIBK at a concentration of 15,000 μg/L in well MW-8;
- Benzene and chlorobenzene in well MW-10 at concentrations of 7.5 μg/L and 3.5 μg/L, respectively;
- Total extractable hydrocarbons (TEH) at concentrations ranging from 1.0 to 5.7 milligrams per liter (mg/L); and
- Total volatile hydrocarbons (TVH) at concentrations ranging from 0.05 to 3.6 mg/L.

Subsurface Consultants, Inc. indicated that all measured required in the *Addendum No. 1, Work Plan and Revised Request for "No Further Action"* were completed and requested confirmation that "no further action" was required for the site and that the site may be closed (Subsurface Consultants, Inc., 1995a).

4.14 April 2013 Phase I Site Assessment and Phase II Investigation

ENVIRON International Corporation (ENVIRON) conducted a Phase I ESA and Phase II investigation of the site in April 2013. The findings of their Phase I ESA and Phase II investigation are presented in the July 3, 2013 draft report titled Phase I Environmental Site Assessment (ENVIRON, 2013b). The results of the Phase II investigation are also presented in ENVIRON's document titled Summary of Environmental Findings (ENVIRON, 2013a).

During the Phase II investigation, ENVIRON collect soil, soil gas, and/or grab groundwater samples from locations SG-1 through SG-5. The analytical results for the investigation are summarized below:

- Soil: Impacted with TPHd and TPH quantified as motor oil (TPHmo). PCBs were detected at concentrations above regulatory screening levels at locations SG-3 (at 14 mg/kg) and SG-4 (at 8 mg/kg). The pesticide DDT was detected at 4 of the 5 locations, but at concentrations below regulatory screening levels. Elevated concentrations of metals (primarily arsenic and lead) where detected in most of the soil samples;

- Grab Groundwater: Impacted with TPHd and TPHmo at concentrations above regulatory screening levels. Groundwater on the western portion of the site (SG-5) is also impacted with VOCs including benzene, ethylbenzene, naphthalene, and xylenes. Elevated concentrations of total metals (antimony, arsenic, barium, cadmium, cobalt, copper, lead, mercury, molybdenum, nickel, silver, vanadium and zinc) were detected. Subsequent groundwater sampling and analysis for dissolved metals indicated these findings were anomalous[5]; and

- Soil Gas: VOCs were detected in soil gas samples collected from locations SG-1 through SG-5. Benzene was detected at locations SG-3 and SG-4 at concentrations that are above the California Human Health Screening Levels[6] (CHHSLs) for shallow soil gas at residential sites. The presence of tracer gas and elevated levels of oxygen and argon in the soil gas sample from SG-3, suggest that the sample may have been affected by ambient air and therefore may not be representative of subsurface conditions.

Based on findings of these Phase I ESA and Phase II investigation, ENVIRON identified the following RECs in connection with the property:

- Soil, soil gas, and groundwater contamination detected during environmental investigations conducted at the site;

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[5] As discussed in Section 4.15, subsequent sampling and analysis indicates that the reported values of metals in groundwater are not reflective of actual site conditions.

[6] DTSC, 2005. Use of *California Human Health Screening Levels in Evaluation of Contaminated Properties*. January.

- Residual contamination from prior environmental remediation activities; and

- Open Spills, Leaks, Investigation and Cleanup (SLIC) Case. The site is listed on the SLIC database as being the focus of an open remediation case at the ACDEH Local Oversight Program (LOP).

A discussion of each of these RECs is presented in ENVIRON's report.

4.15 November 2013 Supplemental Subsurface Investigation

In November 2013, PES conducted a supplemental subsurface investigation at the subject property (PES, 2013b). The investigation consisted of drilling, logging and sampling at 18 soil borings at exterior (SB1 through SB13) and interior (SB14 through SB18) locations. Large diameter continuous soil cores were retrieved from the soil borings and logged to evaluate subsurface lithologic and fill material conditions. In addition, groundwater samples were collected through temporary well casings from six borings (GGW-1 through GGW-6) advanced in the exterior portions of the site.

In summary, the results of the supplemental investigation indicated:

- Fill material ranging from 14 to 19 feet thick underlies the entire, and is generally thinner in the central portion of the site and toward the west, and thickest toward the northern and southern portions of the site. Fill material debris, including brick, metal, concrete, asphalt, glass, wood, fabric, and rubber, has been encountered throughout the site, but is generally most abundant on the western half of the site and at depths below approximately 8 to 10 feet bgs. Fine-grained Bay Mud deposits were encountered directly below the fill material;

- The soil results for samples collected from the fill material suggest the presence of elevated concentrations (i.e., equal to or above regulatory screening levels[7]) of SVOCs, PCBs, and metals (i.e., antimony, arsenic, cadmium, cobalt, copper, lead, nickel, vanadium, and zinc). The concentrations of lead in five of the samples and vanadium in one sample also exceeded their respective Total Threshold Limit Concentration (TTLC) values;

- Waste Extraction Test (WET) was performed on seven selected samples; five of the seven results were at concentrations above the Soluble Threshold Limit Concentration (STLC) lead limit of 5.0 mg/L. The Toxicity Characteristic Leaching Procedure (TCLP) was performed on eight soil samples with elevated total lead concentrations. Only one sample contained a concentration that was above the TCLP lead limit of 5.0 mg/L; and

[7] U.S. Environmental Protection Agency (U.S. EPA), Region 9, November 2013 Regional Screening Levels (RSLs) for residential soil.

- Groundwater is impacted with dissolved metals (i.e., arsenic and lead) that exceed State of California Maximum Contaminant Levels (MCLs[8]).

The maximum concentration of dissolved lead detected in groundwater during PES investigation was 190 μg/L in boring GGW-2. This boring was advanced on the western portion of the site. PES indicated that based on a comparison of dissolved lead and other metals results to those obtained during the April 2013 investigation, it appears that the April 2013 metal results were anomalously high and, therefore, not representative of groundwater conditions beneath the site.

5.0 RECORDS REVIEW

5.1 Environmental Liens

Based on review of an environmental database search conducted by EDR, there are no Federal Superfund (National Priority List [NPL]) liens associated with the subject property. As discussed in Section 4.12, the LUST case has been conditionally closed under conditions associated with a deed notice as a requirement by the ACDEH and the California Regional Water Quality Control Board for the San Francisco Bay Region.

5.2 Standard Environmental Record Sources

The discussion presented in this section is based on available information provided by government agencies and various databases. An EDR report dated November 18, 2013 contains listings of sites located within a 1-mile radius, which were selected in accordance with ASTM E1527-05 and ASTM E 1527-13 standards. This information is obtained from computerized databases of Federal, State, and local records. The EDR database report, which includes descriptions of the listings, is included as Appendix G (provided on CD-ROM).

The following regulatory agency databases were searched and reported in the EDR report:

- USEPA – Comprehensive Environmental Response Compensation, and Liability Information System (CERCLIS);
- USEPA – CERCLA NPL;
- USEPA – CERCLA Proposed NPL;
- USEPA – Superfund (CERCLA) Consent Decrees (CONSENT);
- USEPA – CERCLA Records of Decision (ROD);

[8] California Department of Public Health Maximum Contaminant Levels (MCLs).

- USEPA – CERCLA NPL Deletions;
- USEPA – CERCLA No Further Remedial Action Planned Site (CERC-NFRAP);
- USEPA Facility Index System (FINDS);
- USEPA – Emergency Response Notification System (ERNS);
- USEPA– Hazardous Materials Information Reporting System (HMIRS);
- USEPA – Material Licensing Tracking System (MLTS);
- USEPA – Mines Master Tracking Index File (MINES);
- USEPA – Federal Superfund Liens (NPL Liens);
- USEPA – PCB Activity Database System (PADS);
- USEPA – RCRA Administrative Action Tracking System (RAATS);
- USEPA – Section 7 Tracking Systems (SSTS);
- USEPA – Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA)/Toxic Substance Control Act (TSCA) Tracking System (FTTS);
- USEPA – Toxic Substances Control Act (TSCA);
- USEPA – Resource Conservation and Recovery Information System (RCRAInfo), Treatment, Storage, or Disposal (TSD) facilities, and Small Quantity and Large Quantity Generators (SQG and LQG) of hazardous waste;
- USEPA RCRA Corrective Action Report (CORRACTS);
- USEPA Toxic Chemical Release Inventory System (TRIS);
- California State Water Resources Control Board (SWRCB) – Leaking Underground Storage Tank Listing (LUST) sites including Indian Land;
- SWRCB –Above-ground Storage Tank (AST) sites;
- SWRCB – UST;
- SWRCB – Voluntary Cleanup Sites (VCP); and
- SWRCB – Solid Waste Facilities (SWF/LF).

PES also searched the following agency websites for environmental records related to the subject property:

- Alameda County Department of Environmental Health website located at http://www.acgov.org/MAPS/deh/InspectionResults/?SITE=LOP;
- California State Water Resources Control Board's GeoTracker website located at http://geotracker.swrcb.ca.gov/; and
- Department of Toxic Substances Control's (DTSC) EnviroStor website located at http://www.envirostor.dtsc.ca.gov/public/default.asp.

5.2.1 Subject Property Records

The subject property is listed under the following databases:

- **LUST Database**: Mike Roberts Color Production (6707 Bay Street) is listed under the LUST database due to the reported release from the former USTs discussed in Section 4.0. The database indicates that the case has been closed. In addition, PES discussed the LUST case with Mr. Mark Detterman of the ACDEH LOP on December 10, 2013. Mr. Detterman confirmed that the LUST case for the site is closed. As discussed in Section 4.12, the LUST case has been closed under conditions associated with a deed notice;
- **SLIC Database**: Mike Roberts Color Production (6707 Bay Street) is listed as an open remediation case under the SLIC (Spills, Leaks, Investigations and Cleanup) database and lists the ACDEH LOP as the lead agency. The database listed other solvents and non-petroleum hydrocarbons as the potential contaminants of concern. Based on PES discussion with Mr. Mark Detterman of the ACDEH LOP on December 10, 2013, the SLIC case for the site is still open;
- **Alameda County Contaminated Sites Database**: Mike Roberts Color Production (6707 Bay Street) is listed on the Alameda County Contaminated Sites (CS) database. Its status is listed as several different ways, including "leak confirmation", "preliminary site assessment underway", "pollution characterization", and "remedial action underway." No other information is provided. As discussed above, ACDEH staff confirmed that the SLIC case is still open;
- **HIST CORTESE Database**: Mike Roberts Color Production (6707 Bay Street) is listed under the historical Cortese database, which is a database that lists site with historical soil and/or groundwater impacts. No site specific details provided under this listing;

- **ENVIROSTOR Database**: Mike Roberts Color Production (6707 Bay Street) is listed under the ENVIROSTOR database, which is DTSC's database that identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database indicates that the site has been referred to another agency;

- **EMI Database**: Mike Roberts Color Production (6707 Bay Street) is listed in the EMI (Emissions) database, for a 1987 Bay Area Air Quality Management District (BAAQMD) permit. The listing indicates that emissions permit was for 5 tons per year of total organic hydrocarbon gases and 5 tons per year of reactive organic gases. No other information was provided;

- **RCRA-SQG Database**: Esselte Pendaflex Dymo Div (6701 Bay Street) is listed in the RCRA-SQG (Resource Conservation and Recovery Act – Small Quantity Generator) database in 1996. No details are provided for the 1996 listing. Esselte Pendaflex Dymo Div is also listed as a historical large quantity generator in 1980. No other information was provided;

- **FINDS Database**: Esselte Pendaflex Dymo Div (6701 Bay Street) is listed in the FINDS (Facility Index System/Facility Registry System) database. The listing is related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. No other information was provided;

- **HAZNET Database**: Mike Roberts Color Production (6701 and 6707 Bay Street) is listed in the HAZNET database in 1996. This data base is extracted from the copies of hazardous waste manifests received each year by DTSC. Waste categories for the listings included contaminated soil from site clean-up and aqueous solution with total organic residues less that 10 percent. No other information was provided.

  Nady Systems Inc (6707 Bay Street) was also listed in the HAZNET database in 1993. The waste category for this listing is other organic solids. No other information was provided. No other information was provided;

- **CERC-NFRAP Database**: Mike Roberts Color Production (6707 Bay Street) is listed in the CERC-NFRAP (Comprehensive Environmental Response, Compensation, No Further Remedial Action Planned) database. As discussed in Section 4.0, after discovery of site issues by the ACDEH inspection of the facility in January 1989, and subsequently issued MRCP a Notice of Violation, a preliminary assessment was conducted in 1990 and a follow-up site inspection was conducted in 1992. After the site inspection, the site was added to the NFRAP database as a site that does not qualify for the National Priorities List (NPL); and

- **SPILLS 90 Database**: The site (6707 Bay Street) is listed in the SPILLS 90 database. This database 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. No information is provided for this listing.

5.2.2 Surrounding Area

Numerous properties in the site vicinity are listed on hazardous materials storage (e.g., FINDS and UST), hazardous waste generation (RCRIS-SQG), and hazardous materials release (e.g., LUST) databases. Details regarding the Mussallem/Sybase and Richardson/Sybase Property, which is located south and immediately adjacent to the site, are discussed below based on its proximity to the site and environmental investigations conducted at this property.

The remaining sites listed on the hazardous materials release databases are not expected to present a significant environmental concern to the subject property based on one or more of the following: (1) the listed property has received case closure by the appropriate regulatory agency; (2) the listed property is either crossgradient or downgradient of the subject property with respect to the inferred regional groundwater flow direction; (3) the listed property is a soils-only case; and (4) the listed property is located at too great a distance to represent a significant environmental condition with respect to the subject property.

Mussallem/Sybase and Richardson/Sybase Property (6601 and 6603 Shellmound Street)

The Mussallem/Sybase and Richardson/Sybase Property, which is the current location of Ex'pression College, is located at 6601 and 6603 Shellmound Street (referenced herein as Sybase). This property is located south and immediately adjacent to the subject property. This property lies downgradient of the subject property based on south/southwest groundwater flow directions obtained at this property (EKI, 2012) and other properties in its vicinity (see discussion of groundwater flow direction in Section 3.3).

Three USTs were removed in August and October 1989. The USTs were located approximately 150 feet south of the subject property, adjacent to the southern property boundary of the 6601/6603 Shellmound Street. The USTs contained diesel, leaded gasoline, and unleaded gasoline (EKI, 2012). Separate-phase hydrocarbon was observed in the excavation during the removal of the USTs in August 1989. Subsequently, 4,950 gallons of petroleum and groundwater were removed from the excavation between August 23 and September 12, 1989.

Various environmental investigations have been conducted at the Sybase property dating back to 1989. The most recent investigations conducted in 2011 and 2012, involved collected samples from three monitoring wells, and installing subslab vapor probes. The results from the 2011 and 2012 investigations and current site conditions are presented in EKI's 2012 report titled *Report of Additional Site Investigation and 2012 Request for Site Closure* (EKI, 2012).

Impacts to soil and groundwater have been characterized as oil and grease, TPHd, TPHg, and BTEX. Based on existing data, the 2012 report indicated that benzene may be present in subslab vapor, but the concentrations are low and are not persistent through time. The report requested the ACDEH issue a case-closure letter for the property under the 2012 California State Water Resources Control Board (SWRCB) Low-Threat Underground Storage Tank Case Closure Policy.

This property is not expected to present a significant environmental concern to the subject property based on its downgradient location with respect to the subject property, and the nature and extent of soil, groundwater, and soil vapor detected in environmental investigations conducted at the property.

6.0 SITE INSPECTION

An inspection of the subject property was conducted on November 25, 2013, by Mr. Thomas of PES. Accessible areas of the interiors of the buildings and the exterior areas of the site were inspected. Some of the rooms in the warehouse building were not accessible because the key to unlock them was not available. Mr. Thomas was accompanied by Mr. John Nady. Site photographs are presented on Plates 4 through 13.

Exterior Observations

The exterior of the subject property consists of landscaped areas and asphalt paved parking and driving areas. The asphalt paved driveways and parking areas were observed to be in fair to poor condition, as some areas contained numerous cracks, and/or broken asphalt. Plate 4/Photo 1 shows a view of the front portion of the site looking west, and Plate 4/Photo 2 and Plate 5/Photo 1 show views of the exterior portions of the site looking east and south, respectively. The area between the warehouse building and the property to the south (i.e., 6603 Shellmound Street) was not accessible during the site inspection. As shown on Plate 5/Photo 2, this area is characterized as including ruderal vegetation with no stressed vegetation or staining apparent. Exterior features observed during the site inspection included:

- Four unlabelled 55-gallon drums located adjacent to the southwest corner of the warehouse building (Plate 6/Photo 1). Three of the four drums were covered. The uncovered drum appeared to contain soil. The content of the remaining drums is not known. The drums are aged and discolored, but appeared to have maintained their integrity and no evidence of staining was observed;

- Two labeled 55-gallon drums located near the southwest corner of the warehouse building that are in good condition. These drums contain soil cuttings and waste water generated during PES' November 2013 subsurface investigation and are slated for off-site disposal;

- A number of wood pallets and other trash debris was present near the southwest corner of the warehouse building (Plate 6/Photo 2);

- A single PG&E owned pad-mounted electrical transformer was observed near the northeast corner of the warehouse building. The transformer appeared to be in good condition; no leaks or staining/discoloration were observed in the vicinity of the transformer (Plate 7/Photo 1);

- Three vertical pipes mounted to the northern wall of the warehouse building (near the northeast corner; see Plate 3 and Plate 7/Photo 2) that may be abandoned pipes associated with the former USTs; and

- Five monitoring groundwater wells and five vapor wells were observed on the exterior portions of the site. The groundwater monitoring wells included MW-1, MW-3, MW-7, MW-8, and MW-9 and the vapor wells included SG-1 through SG-5. No groundwater monitoring wells were found at locations MW-5, MW-6, and MW-10 (see the ENVIRON and PES 2013 investigation reports in Appendix F for monitoring and vapor well locations).

Interior Observations

As shown on Plate 3, the site buildings consist of a two-story office building and a warehouse building. A second story mezzanine-level area is located in the northern portion of the warehouse. The warehouse and office building are connected by a 1-story lobby/receptionist area. These buildings were occupied by Nady at the time of the site inspection. The second-story of the office building is shown on Plate 8/Photo 1. Three truck bays are located on the eastern side of the warehouse (Plate 8/Photo 2) and one truck bay is located on the western side of the warehouse. A majority of the current site operations take place in the western-half of the warehouse.

As previously discussed, the major operations conducted in the warehouse area include storage of electronic sound equipment, shipping and receiving of new products, and minor equipment repair. Views of product storage areas in the eastern and western portions of the warehouse are shown on Plate 9/Photos 1 and 2. The shipping/receiving area is shown on Plate 10/Photo 1 and the area where minor equipment repairs and packaging takes place is shown on Plate 10/Photo 2.

The second story mezzanine-level area of the warehouse is generally used for parts storage, paper storage, minor equipment repair, and it contains areas that were formerly used for testing equipment. A typical storage room in this area is shown on Plate 11/Photo 1. Plate 11/Photo 2 and Plate 12/Photo 1 show first floor machine shop areas in the northeastern portion of the warehouse. These areas were historically used to make prototype products, but are now infrequently used. Some water staining was observed in the northeastern portion of the warehouse in the location of roof leaks (Plate 12/Photo 2). Also, a filter housing was observed in the northeastern portion of the warehouse (Plate 13/Photo 1). No staining was

observed in the vicinity of the filter housing. Mr. Nady did was aware that it existed and indicated that it is not associated with their current or historical site operations.

Based on observations during the site inspection and discussions with Mr. Nady, limited amounts of chemicals are used and stored at the site. Chemicals generally used include small retail-sized containers of paints, oils/lubricants, paint thinner/remover, and isopropyl alcohol for cleaning parts. No chlorinated VOCs were observed or are reportedly used on-site. Forklifts used in the warehouse are fueled by propane that is obtained on an as-needed-basis from a nearby supplier. Propane is not stored on-site. No evidence of spills or releases were observed in the warehouse and no concerns were identified with hazardous material use or storage. Minor discoloration and minor cracks in the concrete floors, consistent with historical uses, were observed in the warehouse.

6.1 Chemical Use and Storage

No chemical storage other than discussed in Section 6.0 was observed at the subject property.

6.2 Underground and Aboveground Storage Tanks

No evidence of current USTs or ASTs was observed during the site inspection. The exterior pipes discussed above appear to be related to the three former USTs located on the site.

6.3 Back-Up Generators

No back-up generators were observed at the subject property.

6.4 Elevators

There are no elevators present at the site.

6.5 Hydraulic Trash Compactors

No trash compactors were observed on the site.

6.6 Indications of Polychlorinated Biphenyls (PCBs)

As discussed in Section 6.0, a single PG&E owned electrical transformer was observed on the eastern portion of the subject property adjacent to the site building. The transformer appeared to be in good condition with no evidence of leakage. Based on these observations, no environmental issues were identified with regard to the transformer at the subject property.

6.7 Other Conditions

6.7.1 Asbestos in Building Materials

An assessment of asbestos-containing building materials was not conducted as part of this Phase I ESA. Standards set by the Occupational Safety and Health Administration (OSHA) require building owners to presume that thermal system insulation (TSI) and surfacing asbestos containing material (ACM) found in buildings constructed before 1981, and floor tile installed in buildings through 1981, are asbestos containing, unless demonstrated to be less than 1 percent asbestos through sampling. Based on the pre-1981 construction date of the subject property building, ACM may be present as part of the building systems at the site.

6.7.2 Radon

The National Radon Database includes radon information from U.S. EPA/State Residential Radon Surveys conducted between 1986 and 1992. The database includes test results from 21 sites within the subject property zip code area. The average value for radon level reported in this region was 0.776 pico curies per liter (pCi/l) of air for the first floor living area. This is lower than the U.S. EPA's recommended action level of 4 pCi/l.

The survey indicates that it is unlikely that radon levels in buildings in the subject property area are above the EPA action level; no radon gas testing is deemed necessary for the subject property.

6.7.3 Solid Waste

No concerns were observed with respect to solid waste disposal for the subject property. However, four 55-gallon drums (three of which have unknown contents) and general debris were observed to be present in the southwest portion of the site.

6.7.4 Lead in Paint

The Consumer Products Safety Commission limited lead content in residential paint to 0.06 percent (600 parts per million) in 1978. The use of paint containing greater than 0.06 percent lead was also prohibited in areas where consumers have direct access to painted surfaces. Based on the pre-1978 construction date of the subject property building, lead-based paint may be present on interior and exterior surfaces of the site buildings.

7.0 SUMMARY AND CONCLUSIONS

The subject property consists of a single legal parcel, totaling approximately 2.27 acres, and is located in a mixed industrial, commercial, and residential use area within the City of Emeryville and County of Alameda, California. The subject property is developed with a two-story office building and a warehouse building, which are connected by a 1-story lobby/receptionist area. The exterior of the subject property consists of landscaped areas and asphalt paved parking and driving areas. The site currently uses the addresses of 6701, 6705, and 6707 Shellmound Street, California. The site is bounded to the west and north by the Ashby Avenue off-ramp from Interstate 80, to the south by a commercial building, and to the east by Shellmound Street and a railroad right-of-way.

Historical Site Use

The land on which the subject property is located historically consisted in large part of San Francisco Bay tidal mud flats and was below sea level. In the later part of the 1930's, a highway was constructed west of the site and a levee was built between the subject property and San Francisco Bay. From that time until the early to mid-1950s, the subject property and vicinity were filled in by non-native soils to create buildable land. It appears that most of the filling of the site was completed by the late 1940's. The current site buildings were constructed in approximately 1963.

Dymo operated at the site from approximately 1963 to 1979, when the property was sold to MRCP. Dymo manufactured label tape and label tape punchers and used MIBK and MEK in the manufacturing processes. These chemicals were stored in three USTs that were located in the eastern portion of the site near Shellmound Street. The USTs were removed in 1989.

MRCP operated at the site from 1979 to 1989, and initially manufactured and printed colored postcards. They later expanded into color printing, lithography, and off-set printing operations. MRCP's operations produced waste that included printing ink, solvent cleaning compounds, volatile and semivolatile hydrocarbons, and color pigments, which were stored in 55-gallon drums on the west side of the warehouse building.

Nady, the current property owner, purchased the property from MRCP in 1990. Nady packages and distributes communication systems, such as wireless microphones and specialty audio systems, from the facility. Nady has reported used very limited amounts of chemicals in their operations.

Previous Environmental Investigations

As discussed in Section 4.0, various environmental investigations have been conducted at the site dating back to 1989.

Site assessments conducted by government agencies and environmental consultants in 1989. The primary features of environmental concern identified at the site included:

- Ninety drums of waste stored at the western exterior of the warehouse building (i.e., see area labeled on Plate 3 as former drum storage area);
- Three USTs on the eastern side of the property; and
- Four drains found in the mezzanine area of the warehouse channeled discarded chemical wastes into a sump located outside and along the western side of the warehouse. The sump was connected to the municipal sewer system. The sump area was excavated on August 21, 1989.

Various investigations, remedial actions, and groundwater water monitoring activities were performed between 1989 and 1996 to address these concerns. The investigations identified concentrations of metals and organic constituents (including VOCs, SVOC, petroleum hydrocarbons, and PCB) in soil and/or groundwater. Numerous soil borings and eight monitoring wells were advanced/installed during the investigations.

Removal and remediation activities were conducted at the site with oversight by ACDEH, including:

- The removal of the three USTs;
- Excavating soil in two areas on the west side of the warehouse (i.e., the sump area and along the ditch near the property boundary); and
- Installing and operating groundwater extraction and treatment systems at the former UST area and drum storage area, and installing and operating a soil vapor extraction and treatment system in the former UST area.

Recent investigations were conducted by ENVIRON in April 2013 and PES in November 2013 to assess soil, groundwater, and soil vapor conditions beneath the site. The April 2013 ENVIRON investigation identified: petroleum hydrocarbons, PCBs, and metals in soil; petroleum hydrocarbons, VOCs, and metals in groundwater; and elevated concentrations of benzene in soil vapor. Concentrations of metals in groundwater reported in the draft ENVIRON report are anomalous. Subsequent sampling and analysis indicates that the reported values of metals in groundwater are not reflective of actual site conditions.

The November 2013 investigation identified SVOCs, PCBs, and metals in soil above regulatory screening levels (USEPA Region 9 RSLs), and dissolved metals (i.e., arsenic and lead) in groundwater that exceed California MCLs. The investigation report indicated that fill material ranging from 14 to 19 feet thick underlies the entire site and fill material debris includes brick, metal debris, concrete, asphalt, glass, wood, fabric, and rubber.

Site Observations

Current chemical use and storage at the site is generally limited to small retail-sized containers of paints, oils/lubricants, paint thinner/remover, and isopropyl alcohol for cleaning parts. No chlorinated VOCs were observed or are reportedly used on-site. No evidence of spills or releases were observed in the warehouse and no concerns were identified with hazardous material use or storage. Minor discoloration and minor cracks in the concrete floors, consistent with historical uses, were observed in the warehouse.

Regulatory Agency Records

The subject property is listed on the LUST, SLIC, Alameda County CS, HIST CORTESE, ENVIROSTOR, EMI, RCRA-SQG, FINDS, HAZNET, CERC-NFRAP, and SPILLS 90 databases. Numerous records for the subject property were available for review at the ACDEH.

The LUST database indicates that the case is closed. In addition, PES discussed the LUST case with Mr. Mark Detterman of the ACDEH LOP on December 10, 2013. Mr. Detterman confirmed that the LUST case for the site is closed. As discussed in Section 4.12, the LUST case has been closed under conditions associated with a deed notice. Mike Roberts Color Production (6707 Bay Street) is listed as an open remediation case under the SLIC. Based on PES discussion with Mr. Detterman, the SLIC case for the site is still open.

The adjacent site to the south (Mussallem/Sybase and Richardson/Sybase Property) at 6601 and 6603 Shellmound Street is listed on the Historical UST, LUST, and CORTESE databases. Three USTs were removed from the property in August and October 1989. The USTs were located approximately 150 feet south of the subject property and contained diesel, leaded gasoline, and unleaded gasoline. Various environmental investigations have been conducted at the Sybase property dating back to 1989. Impacts to soil and groundwater have been characterized as oil and grease, TPHd, TPHg, and BTEX. Based on existing data, the 2012 report indicated that benzene may be present in subslab vapor, but the concentrations are low and are not persistent through time. This property is not expected to present a significant environmental concern to the subject property based on its downgradient location with respect to the subject property, and the nature and extent of soil, groundwater, and soil vapor detected in environmental investigations conducted at the property.

Several additional sites in the vicinity of the subject property are identified as having documented releases of hazardous materials. Based on PES' review of agency files, the remaining listed sites are not expected to present a significant environmental concern to the subject property based on one or more of the following: (1) the listed property has received case closure by the appropriate regulatory agency; (2) the listed property is either crossgradient or downgradient of the subject property with respect to the inferred regional groundwater flow direction; (3) the listed property is a soils-only case; and (4) the listed property is located at too

great a distance to represent a significant environmental condition with respect to the subject property.

Conclusions

In summary, we have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ATSM Practice E 1527-05 of the property located at 6701, 6705, and 6707 Shellmound Street in Emeryville, California, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 1.2 and 1.3 of this report.

As noted elsewhere in this report, the subject property consists of land reclaimed by filling from San Francisco Bay and has been the subject of industrial uses since the early 1960s. Numerous environmental investigations have been undertaken to evaluate the site, as well as several remedial actions to mitigate documented environmental conditions (refer to Section 4.0). The LUST case has been closed under conditions associated with a deed notice. The SLIC case for the site is still open.

This assessment revealed the following recognized environmental conditions (RECs) in connection with the property.

- The site is underlain by heterogeneous fill placed to create buildable land, like much of the filled bay shore area of Emeryville. As such, sporadic and various chemicals can be detected when samples of soil, soil gas, and/or groundwater are tested. In addition, releases associated with the former USTs and the site's historical use may have contributed to chemical constituents detected in soil, groundwater, and soil gas samples collected during environmental investigations conducted at the site; and

- Environmental investigations at the site have identified the presence of primarily non-chlorinated VOCs in soil, soil vapor, and groundwater. If these VOCs in the subsurface are unmitigated, there is a potential for vapor intrusion on the subject property.

The following Controlled REC[9] has been identified at the subject property:

- Three USTs were removed from the subject property in 1989. The LUST case for the former USTs has been closed under conditions associated with a deed notice.

[9] A Controlled REC is defined in the American Society for Testing and Materials guidelines for Phase I Environmental Site Assessments (ASTM E 1527-13) as a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

In addition, PES points out the following noteworthy observations during the performance of the Phase I ESA:

- The presence of four unlabelled 55-gallon drums, which are located adjacent to the southwest corner of the warehouse building. Three of the four drums were covered. The uncovered drum appears to contain soil. The content of the remaining drums is not known. The drums are aged and discolored, but appeared to have maintained their integrity and no evidence of staining was observed. Characterization and proper off-site disposal of the drums should be conducted; and

- Numerous groundwater monitoring wells associated with the closed LUST case and vapor wells installed during prior investigations are currently located on the subject property. These wells should be properly destroyed under permit.

8.0 DATA GAPS

No data gaps that may have affected our ability to identify RECs associated with the subject property were identified during the performance of this Phase I ESA.

9.0 ADDITIONAL SERVICES

No additional services were provided during the preparation of this Phase I ESA.

10.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

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

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

Resumes of the Environmental Professionals signing this report are presented in Appendix H.

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ILLUSTRATIONS



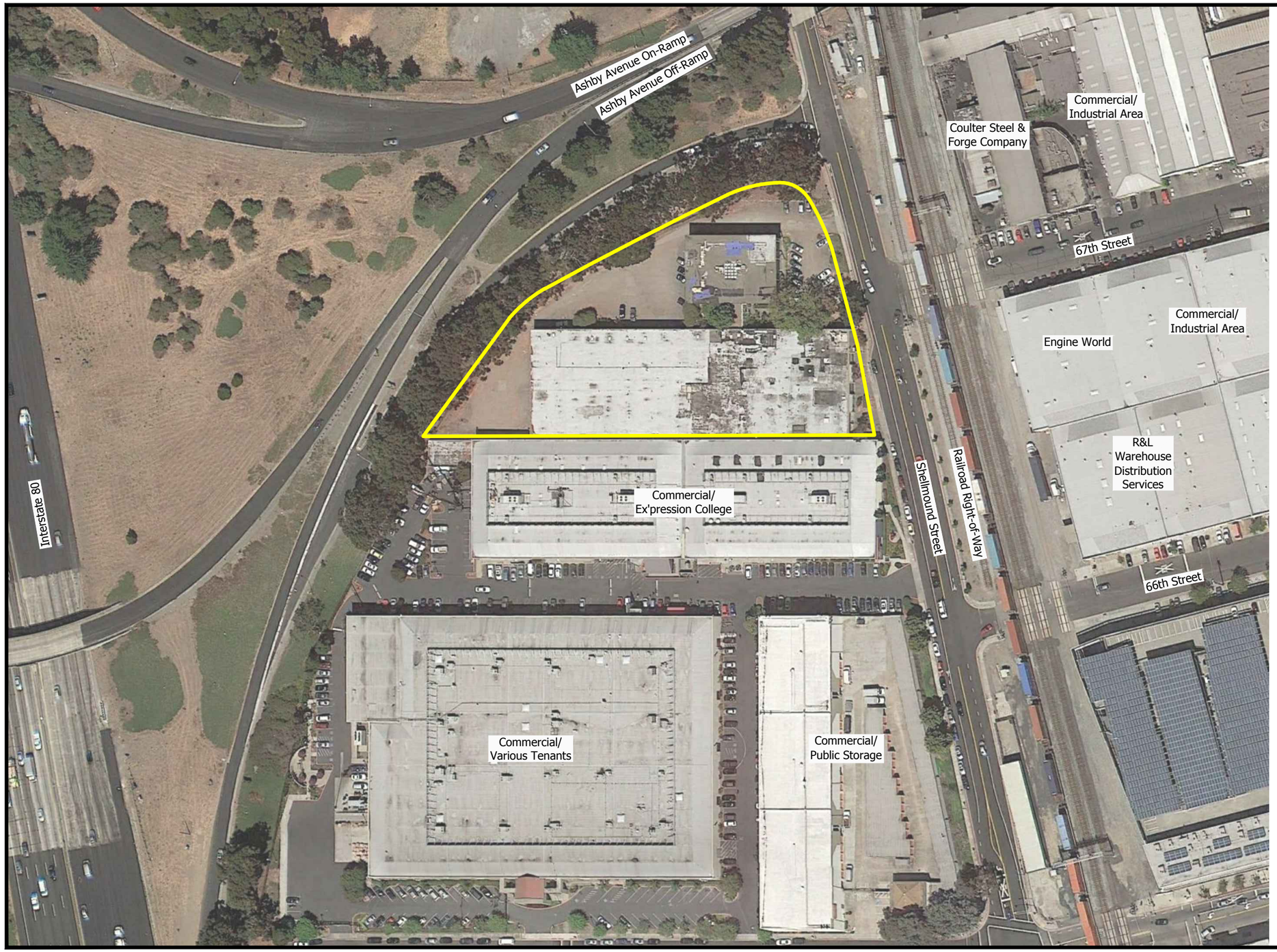
U.S.G.S. Topo Map - Oakland West, California, 7.5-minute quadrangle.1997

PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
Phase I Environmental Site Assessment
6701, 6705, and 6707 Shellmound Street
Emeryville, California

PLATE
1

1386.001.01.007	138600101007_ESA_1-3	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

Approximate Property Boundary

N

0 80

SCALE IN FEET

Aerial Photo: Google Earth, August 28, 2012

PES Environmental, Inc.
Engineering & Environmental Services

Site Vicinity
Phase I Environmental Site Assessment
6701, 6705, and 6707 Shellmound Street
Emeryville, California

PLATE
2

1386.001.01.006	138600101007_ESA_1-3	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

Explanation

Approximate Property Boundary

INTERSTATE 80, ASHBY AVENUE/BAY STREET EXIT RAMP

BAY STREET

2-STORY OFFICE BUILDING

Concrete Patio Area

1-Story Lobby/ Receptionist Area

Approximate Location of Wall-Mounted Exterior Pipes

Approximate Extent of Former UST Excavation

Former Sump Excavation

Approximate Area of Building where Machine Shops are Located

Product Storage

Product Storage

Approximate Location of Wall-Mounted Filter Housing

WAREHOUSE BUILDING

Former Ditch Excavation

Former Drum Storage Area

Shipping and Receiving Area

Product Storage

Minor Equipment Repair / Packaging Area

Product Storage

Location of 55-gallon drums, trash dumpsters, and debris

N

0 50

SCALE IN FEET

Basemap from ENVIRON 4/29/13

PES Environmental, Inc.
Engineering & Environmental Services

Site Plan
Phase I Environmental Site Assessment
6701, 6705, and 6707 Shellmound Street
Emeryville, California

PLATE 3

1386.001.01.006	138600101007_ESA_1-3	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Photo 1.
View of the eastern portion of the site looking west.
Photo date: November 25, 2013



Photo 2.
View of the northern exterior portion of the site looking east.
Photo date: November 25, 2013



Photo 1.
View of the western exterior portion of the site looking south.
Photo date: November 25, 2013



Photo 2.
View looking east of the area between the warehouse building and the property to the south. Photo date: November 25, 2013



Photo 1.
View of the four unlabelled 55-gallon drums and other debris located adjacent to the southwest corner of the warehouse building.
Photo date: November 25, 2013



Photo 2.
View of drums, wood pallets and other debris, and trash dumpsters located near the southwest corner of the warehouse building. Adjacent off-site building to the south is located in the background of the photgraph.
Photo date: November 25, 2013



Photo 1.
View of the PG&E-owned pad-mounted transformer near the northeast corner of the warehouse building. Photo date: November 25, 2013

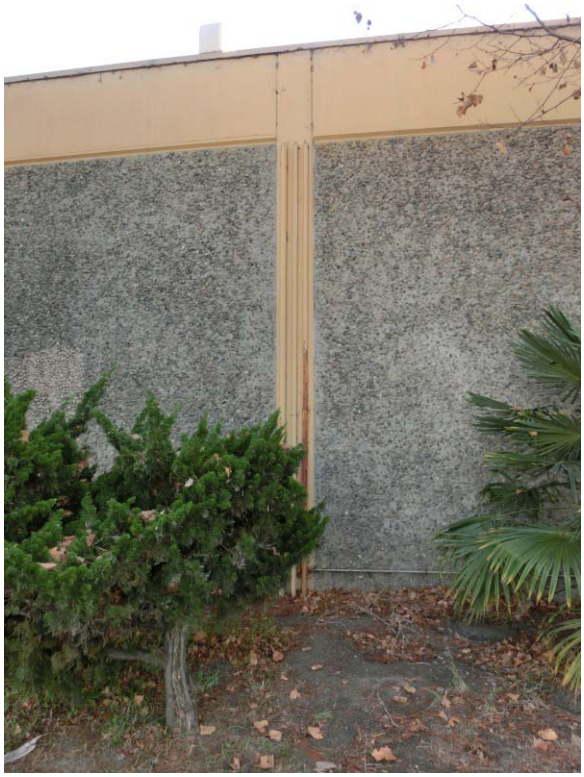


Photo 2.
View of the three vertical pipes mounted to the northern wall exterior of the warehouse building. Photo date: November 25, 2013



Photo 1.
View of the second floor of the office building. Photo date: November 25, 2013



Photo 2.
View to the northwest of the three truck bays located on the eastern side of the warehouse building. Photo date: November 25, 2013



Photo 1.
View of product storage area in the eastern portion of the warehouse building. Photo date: November 25, 2013



Photo 2.
View of product storage area in the western portion of the warehouse building. Photo date: November 25, 2013

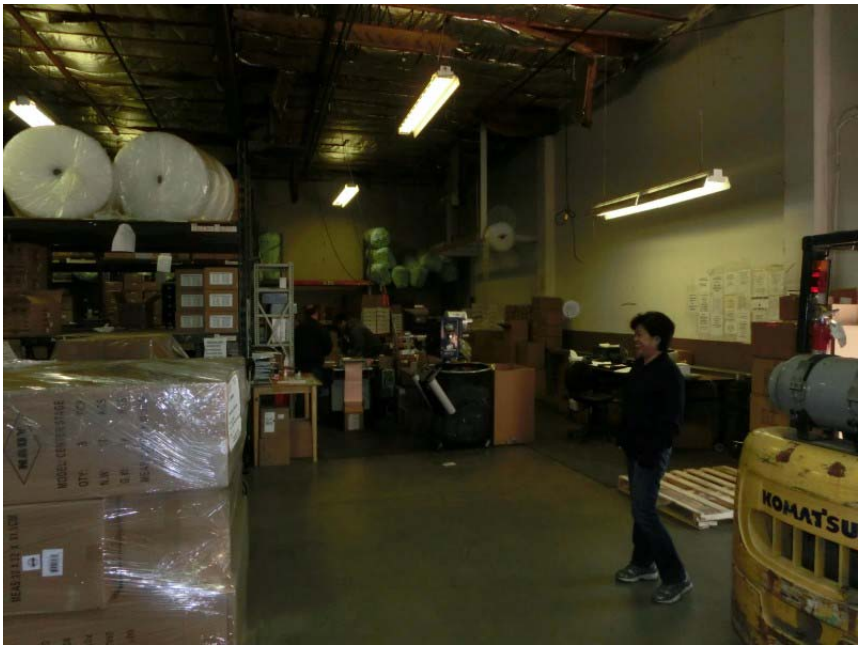


Photo 1.
View of the shipping/receiving area in the western portion of the warehouse building. Photo date: November 25, 2013



Photo 2.
View in the warehouse building of area where minor equipment repairs and packaging is conducted. Photo date: November 25, 2013



Photo 1.
View of typical storage room in the mezzanine-level area of the warehouse building. Photo date: November 25, 2013



Photo 2.
View of machine shop in the northeastern portion of the warehouse building. Photo date: November 25, 2013



Photo 1.
View of another machine shop in the northeastern portion of the warehouse building. Photo date: November 25, 2013

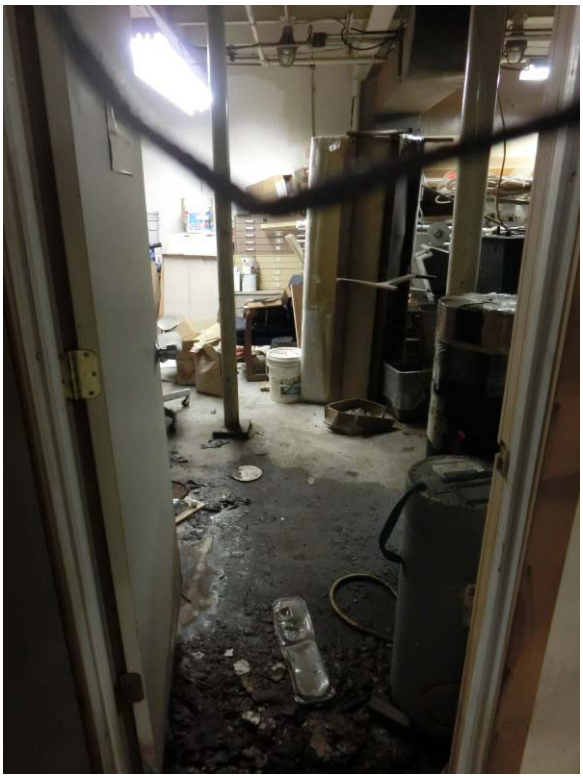


Photo 2.
View of water staining related to roof leaks observed in the northeastern portion of the warehouse building.
Photo date: November 25, 2013



Photo 1.
View of filter housing present in the northeastern portion of the warehouse building.
Photo date: November 25, 2013

APPENDIX A

USER AND SITE USE QUESTIONNAIRES

USER QUESTIONNAIRE[1]
PHASE I ENVIRONMENTAL SITE ASSESSMENT

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 *"Brownfields Amendments"*), the User must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

User Information
Name: Jeff White
Title: Sr. Development Director
Company: **AvalonBay Communites, Inc.**
Representing, if applicable:
Signature: Jeff White Date: 1/16/14

Site Information
Site Name: Nady Systems, Inc.
Address: 6701, 6705 and 6707 Shellmound Street, Emeryville, California

1. Environmental cleanup liens that are filled or recorded against the site (40 CFR 312.25)
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?
Yes, a deed notice has been recorded for the subject property.

2. Activity and land use limitations that are in place on the site or that have been filled or recorded in a registry (40 CFR 312.26)
Are you aware of any activity or land use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filled or recorded in a registry under federal, tribal state or local law?
Yes. The deed notice referenced above imposes conditions and/or restrictions on the use of the subject property.

[1] In accordance with Appendix X3 of ASTM E 1527-05.

[2] *Landowner Liability Protections,* or *LLPs,* is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability* (*"Common Elements"* Guide) issued on March 6, 2003.

3. Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28)

As the user of this Phase I ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former property occupants of the property or an adjoining property so that you have specialized knowledge of the chemicals and processes used by this type of business?

No

4. Relationship of the purchase price to the fair market value of the property (40 CFR 312.29)

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

The purchase price reflected the fact that there was known contamination of the property.

5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30)

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as User:

(a) Do you know the past uses of the property? ***Yes***

(b) Do you know of specific chemicals that are present or once present at the property? ***No, except as documented in previous reports.***

(c) Do you know of spills or other chemical releases that have taken place at the property? ***No, except as documented in previous reports.***

(d) Do you know of any environmental cleanups that have taken place at the property? ***No, except as documented in previous reports.***

6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Yes.

KEY SITE MANAGER – PRE-SURVEY QUESTIONNAIRE

Name of person completing questionnaire: JOHN NADY

Association with property: OWNER'S TRUSTEE

Length of association with property: 23 YEARS

Date: 11 - 22 - 2013

Phone Number: 510 - 652 - 2411

Property Name: 6701 through 6707 Shellmound Street Site, Emeryville

PES Project Number: 1386.001.01

Directions: Please answer all questions to the best of your knowledge and in good faith. Mark the column corresponding to the appropriate response. Additional details necessary to explain any yes or unknown responses should be provided in the "Comments" column.
Note: *U/NR* indicates *"Unknown"* or *"No Response"*.

QUESTION		RESPONSE			COMMENTS
		Y	N	U/NR	
1A.	Is the Project used for an industrial use?	✓			
1B.	Are any adjoining properties used for an industrial use?			✓	EXPRESSIONS SCHOOL
2A.	To the best of your knowledge, has the Project been used for an industrial use in the past?	✓			
2B.	To the best of your knowledge, has any adjoining properties been used for an industrial use in the past?			✓	
3A.	Is the Project used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?		✓		
3B.	Is any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?		✓		
4A.	To the best of your knowledge, has the Project been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	✓			PRINTING.
4B.	To the best of your knowledge, has any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?			✓	
5A.	Are there currently any automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than five gallons in volume or fifty gallons in the aggregate, stored on or used at the Project?		✓		

	QUESTION	RESPONSE			COMMENTS
		Y	N	U/NR	
5B.	To the best of your knowledge, have there been previously any automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than five gallons in volume or fifty gallons in the aggregate, stored on or used at the Project?			✓	
6A.	Are there currently any industrial drums (typically 55 gallon) or sacks of chemicals located on the Project?	✓			6 DRUMS OUTSIDE.
6B.	To the best of your knowledge, have there been previously any industrial drums (typically 55 gallon) or sacks of chemicals located on the Project?			✓	
7A.	Are there currently any groundwater monitoring wells or other groundwater wells (i.e., potable drinking water wells) located on the Project?			✓	
7B.	To the best of your knowledge, have there been previously any groundwater monitoring wells or other groundwater wells (i.e., potable drinking water wells) located on the Project?	✓			SEE DUE DILIGENCE DOCUMENTS DELIVERED TO AVALONBAY COMMUNITIES + PUBLIC RECORDS
8A.	Has fill dirt been brought onto the Project which originated from a contaminated site?			✓	
8B.	Has fill dirt been brought onto the Project which is of an unknown origin?			✓	
9A.	Are there currently any pits, ponds or lagoons located on the Project in connection with waste treatment or waste disposal?		✓		
9B.	To the best of your knowledge, have there been previously any pits, ponds or lagoons located on the Project in connection with waste treatment or waste disposal?			✓	SEE 7B.
10A.	Is there currently, any stained soil on the Project?			✓	
10B.	To the best of your knowledge, has there been previously any stained soil on the Project?			✓	
11A.	Are there currently any registered or unregistered storage tanks (above or underground) located on the Project?		✓		
11B.	To the best of your knowledge, have there been previously any registered or unregistered storage tanks (above or underground) located on the Project?	✓			SEE 7B.
12A.	Are there currently any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground on the Project or adjacent to any structure located on the Project?		✓		
12B.	To the best of your knowledge, have there been previously any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground on the Project or adjacent to any structure located on the Project?			✓	
13A.	Are there currently any flooring, drains, or walls located at the Project that are stained by substances other than water or are emitting foul odors?			✓	
13B.	To the best of your knowledge, have there been previously any flooring, drains, or walls located at the Project that are stained by substances other than water or are emitting foul odors?			✓	

	QUESTION	RESPONSE			COMMENTS
		Y	N	U/NR	
14A.	If the Project is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system?				\\N/A
14B.	If the Project is served by a private well or non-public water system, has the well been designated as contaminated by any government environmental/health agency?				\\N/A
15A.	Have you been informed of the past existence of hazardous substances or petroleum products with respect to the Project or any facility located on the Project?	✓			SEE 7B.
15B.	Have you been informed of the current existence of hazardous substances or petroleum products with respect to the Project or any facility located on the Project?			✓	
16A.	Are there any environmental liens or governmental notification relating to past or current violations of environmental laws with respect to the Project or any facility located on the Project?			✓	SEE 7B.
16B.	Have you been informed of the past existence of environmental violations with respect to the Project or any facility located on the Project?			✓	SEE 7B.
16C.	Are you aware of any pending, threatened, or past litigation relevant to hazardous substances of petroleum products in, on or from the property?	✓			SEE 7B.
16D.	Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property?			✓	SEE 7B.
16E.	Are you aware of any notices from any governmental entity regarding any possible violation or environmental laws or possible liability relating to hazardous substances or petroleum products?			✓	SEE 7B.
17.	Have there been any environmental site assessments of the Project that indicated the presence of hazardous substances or petroleum products on, or contamination of, the Project or recommended further assessment of the Project?	✓			
18.	Does the Project discharge waste water on or adjacent to the project, other than storm water, into a storm water sewer system?		✓		
19.	Does the Project discharge waste water on or adjacent to the project, other than storm water, or into a sanitary system?		✓		
20.	Have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the Project?			✓	
21.	Is there a transformer, capacitor or any hydraulic equipment for which there are any records indicating the presence of PCBs?		✓		
22.	Is there now or has there ever been any asbestos-containing materials (ACM), in any application, on the Project?			✓	POSSIBLY IN FLOOR TILES
23.	Has there ever been any ACM testing conducted on the Project?			✓	
24.	Is there an asbestos Operations and Maintenance (O&M) program in place at the Project?		✓		

	QUESTION	RESPONSE			COMMENTS
		Y	N	U/NR	
25.	Is there now or has there ever been any lead-based paint (LBP) applications on the Project?			✓	
26.	Has there ever been LBP testing conducted on the Project?			✓	
27.	Is there a Lead Paint Operations and Maintenance (O&M) Program in place at the Project?		✓		
28.	Has the water at the Project ever been tested for lead?			✓	
29.	Has Radon testing ever been conducted at the Project?			✓	
30.	Are there any other Operations and Maintenance (O&M) programs in place that we should be made aware of?		✓		
31.	Is the Project or any portion of the Project located or involved in any environmentally sensitive areas (i.e., wetlands, coastal barrier resource areas, coastal barrier improvement act areas, flood plains, endangered species, etc.)?			✓	
32.	Do you know or suspect that mold was or is present in the building(s) or HVAC system? - If "Yes", proceed to question #33. - If "No", skip question #33 and proceed to question #34.		✓		
33.	Are there reliable procedures that specify the actions (i.e. operations and maintenance) to be taken to prevent and/or respond to mold or mold producing problems?				
34.	Is there a mold Operations and Maintenance (O&M) program in place at the Project?		✓		
35.	Is the HVAC system inspected at least annually?		✓		
36.	Have identified HVAC problems been corrected in a timely manner?			✓	
37.	Is there now, or has there ever been evidence of mold or mildew present at the building(s)? If so, when?			✓	
38.	Is there now, or has there ever been any water damage in the building(s), whether from flooding, plumbing, roof leaks, or other sources? If so, when?	✓			ROOF LEAKS, NOW.
39.	Has there ever been any sort of Indoor Air Quality (IAQ) or mold testing conducted in the building(s)?			✓	

Summarize historical Project use (when was the Project developed with the current improvements, what modifications have taken place, what was the Project used for prior to it's current use)	SINCE 1991, LIGHT INDUSTRIAL. PRIOR, PRINTING.

APPENDIX B

AERIAL PHOTOGRAPHS

Appendix B
Aerial Photographs Review
6701, 6705, and 6707 Shellmound Street
Emeryville, California

Subject Property

Date	Photo Quality	Comment
1930	Fair	The photograph shows the subject property was part of San Francisco Bay. A small pier-like feature may be present in the northern portion of the site.
1939	Good	A north/south trending levee has been built west of the subject property and a highway has been constructed on the levee. When the exception of a small area in the northernmost portion of the site where a east/west trending pier-like feature is present, the area between the site and levee/highway is filled with water.
1946	Good	Most of the site is still covered with water, but filling is taking place immediately adjacent to the southern boundary of site, and may extend onto the site. It appears that a small building is present in the northern portion of the site adjacent to the east/west trending pier-like feature.
1947	Fair to Poor	Filling activities have extended northward and are taking place on the southern portion of the subject property. The remainder of the site appears similar to the 1946 photograph.
1953	Good	The subject property has been completely filled. A small building and east/west trending pier structure are still present in the northern portion of the site.
1957	Good	The small building and east/west trending pier structure are no longer present in the northern portion of the site. There are no other notable changes to the subject property compared to the 1953 photograph.
1958	Good	No notable changes to the subject property compared to the 1957 photograph.
1959	Good	No notable changes to the subject property compared to the 1958 photograph.
1968	Fair to Poor	The site buildings are present in their current configuration. Vehicles are parked around the office building.
1969	Good	No notable changes to the subject property compared to the 1968 photograph. Vehicles are parked throughout the exterior portions of the site.
1974	Poor	No notable changes to the subject property compared to the 1969 photograph.
1977	Good	It appears that an area on the western exterior side of the warehouse building is being used for storage. This appears to be the drum storage area. There are no other notable changes to the subject property compared to the 1974 photograph.
1984	Good	No notable changes to the subject property compared to the 1977 photograph.
1993	Good	No notable changes to the subject property compared to the 1984 photograph.
1999	Good	No notable changes to the subject property compared to the 1993 photograph.
2005	Good	No notable changes to the subject property compared to the 1999 photograph.
2009	Good	No notable changes to the subject property compared to the 2005 photograph.
2010	Good	No notable changes to the subject property compared to the 2009 photograph.
2012	Good	No notable changes to the subject property compared to the 2010 photograph.

Appendix B
Aerial Photographs Review
6701, 6705, and 6707 Shellmound Street
Emeryville, California

Subject Property Vicinity		
Date	Photo Quality	Comment
1930	Fair	The subject property vicinity to the north, south, and west is part of the San Francisco Bay. North/south trending railroad tracks and commercial/industrial buildings are present in area east of subject property vicinity.
1939	Good	A north/south trending levee has been built west of the subject property vicinity and a highway has been constructed on the levee. The Ashby Avenue off-ramp has been constructed. The area between the subject property vicinity and levee/highway is mostly filled with water, but some filling activities are taking place south of the site and a few buildings have been constructed along the eastern side of the water body. The area east of the site is similar to the 1930 photograph.
1946	Good	Filling activities continue to take place south of the subject property. Fill material now extend as far north as the site's southern boundary. The area east of the site is similar to the 1939 photograph.
1947	Fair to Poor	A small amount of additional filling has taken place just south of the site compared to the 1946 photograph.
1953	Good	The entire area south of the subject property has been completely filled. A few commercial/industrial buildings have been constructed to the south and east of the subject property, but these areas have not changed significantly compared to the 1947 photograph.
1957	Good	A few additional commercial/industrial buildings have been constructed in the subject property vicinity, including on the property just south of the site. Also, a few buildings south of the site have been demolished.
1958	Good	No notable changes to the subject property vicinity compared to the 1957 photograph.
1959	Good	An additional building has been constructed on the property immediately south of the subject property. There are no other notable changes compared to the 1958 photograph.
1968	Fair to Poor	No notable changes to the subject property vicinity compared to the 1959 photograph.
1969	Good	No notable changes to the subject property vicinity compared to the 1968 photograph.
1974	Poor	No notable changes to the subject property vicinity compared to the 1969 photograph.
1977	Good	No notable changes to the subject property vicinity compared to the 1974 photograph except that the current Public Storage facility just south of the site has been constructed.
1984	Good	No notable changes to the subject property vicinity compared to the 1977 photograph.
1993	Good	There are no notable changes to the immediately subject property vicinity compared to the 1984 photograph. However, new developments has been constructed further south.
1999	Good	No notable changes to the subject property vicinity compared to the 1993 photograph.
2005	Good	No notable changes to the subject property vicinity compared to the 1999 photograph.
2009	Good	No notable changes to the subject property vicinity compared to the 2005 photograph.
2010	Good	No notable changes to the subject property vicinity compared to the 2009 photograph.
2012	Good	No notable changes to the subject property vicinity compared to the 2010 photograph.

6701, 6705, & 6707 Shellmound Street
6701, 6705, & 6707 Shellmound Street
Emeryville, CA 94608

Inquiry Number: 3787465.5
November 20, 2013

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

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

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography November 20, 2013

Target Property:

6701, 6705, & 6707 Shellmound Street

Emeryville, CA 94608

Year	***Scale***	***Details***	***Source***
1939	Aerial Photograph. Scale: 1"=500'	Flight Year: 1939	Fairchild
1946	Aerial Photograph. Scale: 1"=500'	Flight Year: 1946	Jack Ammann
1958	Aerial Photograph. Scale: 1"=500'	Flight Year: 1958	USGS
1968	Aerial Photograph. Scale: 1"=500'	Flight Year: 1968	USGS
1974	Aerial Photograph. Scale: 1"=500'	Flight Year: 1974 Best Copy Available from original source	USGS
1984	Aerial Photograph. Scale: 1"=500'	Flight Year: 1984	WAC
1993	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1993	EDR
1999	Aerial Photograph. Scale: 1"=500'	Flight Year: 1999	WAC
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	EDR
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	EDR
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	EDR


INQUIRY #: 3787465.5
YEAR: 1939
= 500'
N
EDR Environmental Data Resources Inc


INQUIRY #: 3787465.5
YEAR: 1946
= 500'
N
EDR Environmental Data Resources Inc


INQUIRY #: 3787465.5
YEAR: 1958
= 500'
N


INQUIRY #: 3787465.5
YEAR: 1968
= 500'
N


INQUIRY #: 3787465.5
YEAR: 1974
= 500'
N


INQUIRY #: 3787465.5
YEAR: 1984
= 500'
N
EDR Environmental Data Resources Inc


INQUIRY #: 3787465.5
YEAR: 1993
= 500'
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EDR Environmental Data Resources Inc


INQUIRY #: 3787465.5
YEAR: 1999
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INQUIRY #: 3787465.5
YEAR: 2005
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INQUIRY #: 3787465.5
YEAR: 2009
= 500'
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INQUIRY #: 3787465.5
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EDR Environmental Data Resources Inc


INQUIRY #: 3787465.5
YEAR: 2012
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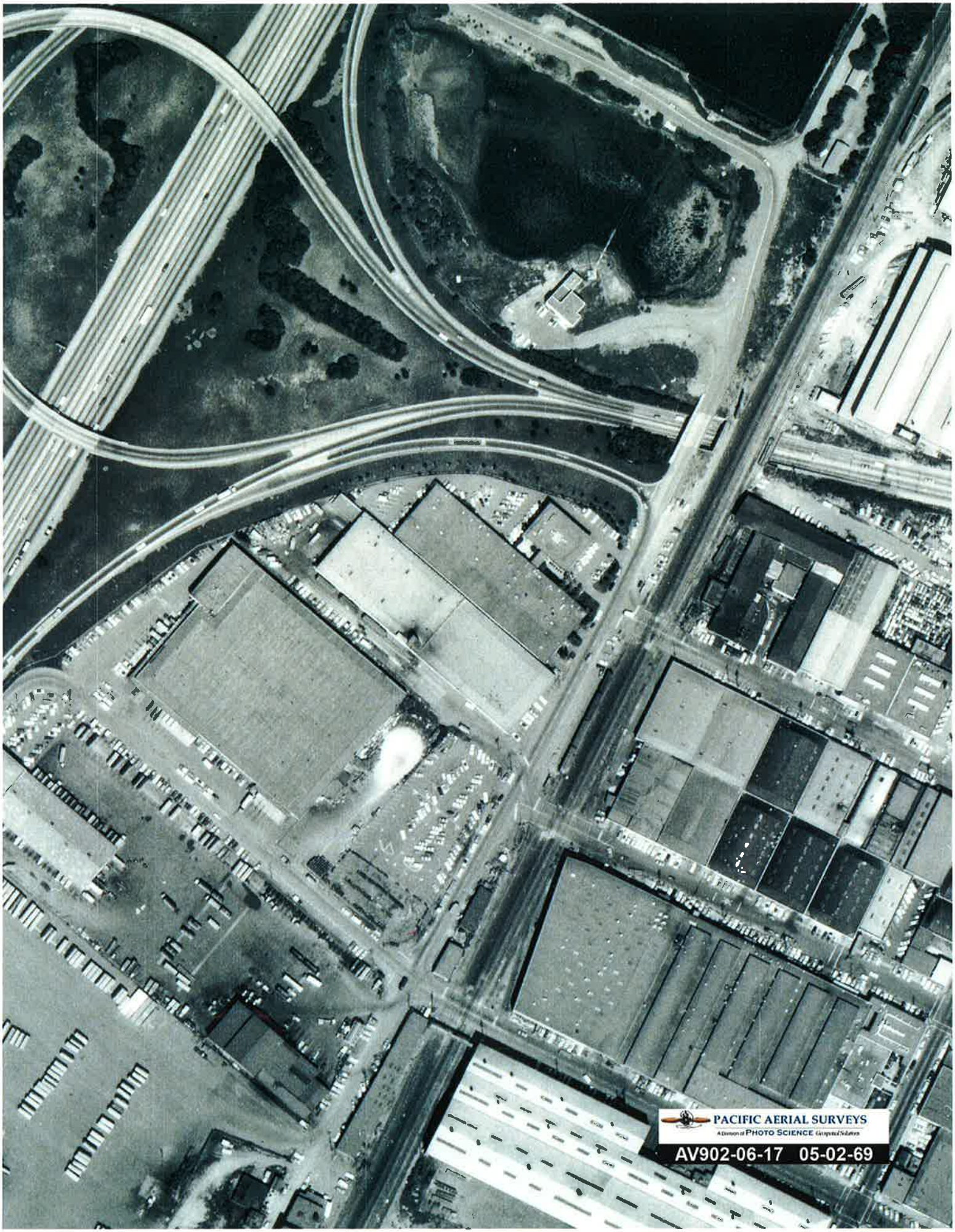

PACIFIC AERIAL SURVEYS
A Division of PHOTO SCIENCE Geospatial Solutions
GY30-30-16 circa 1930

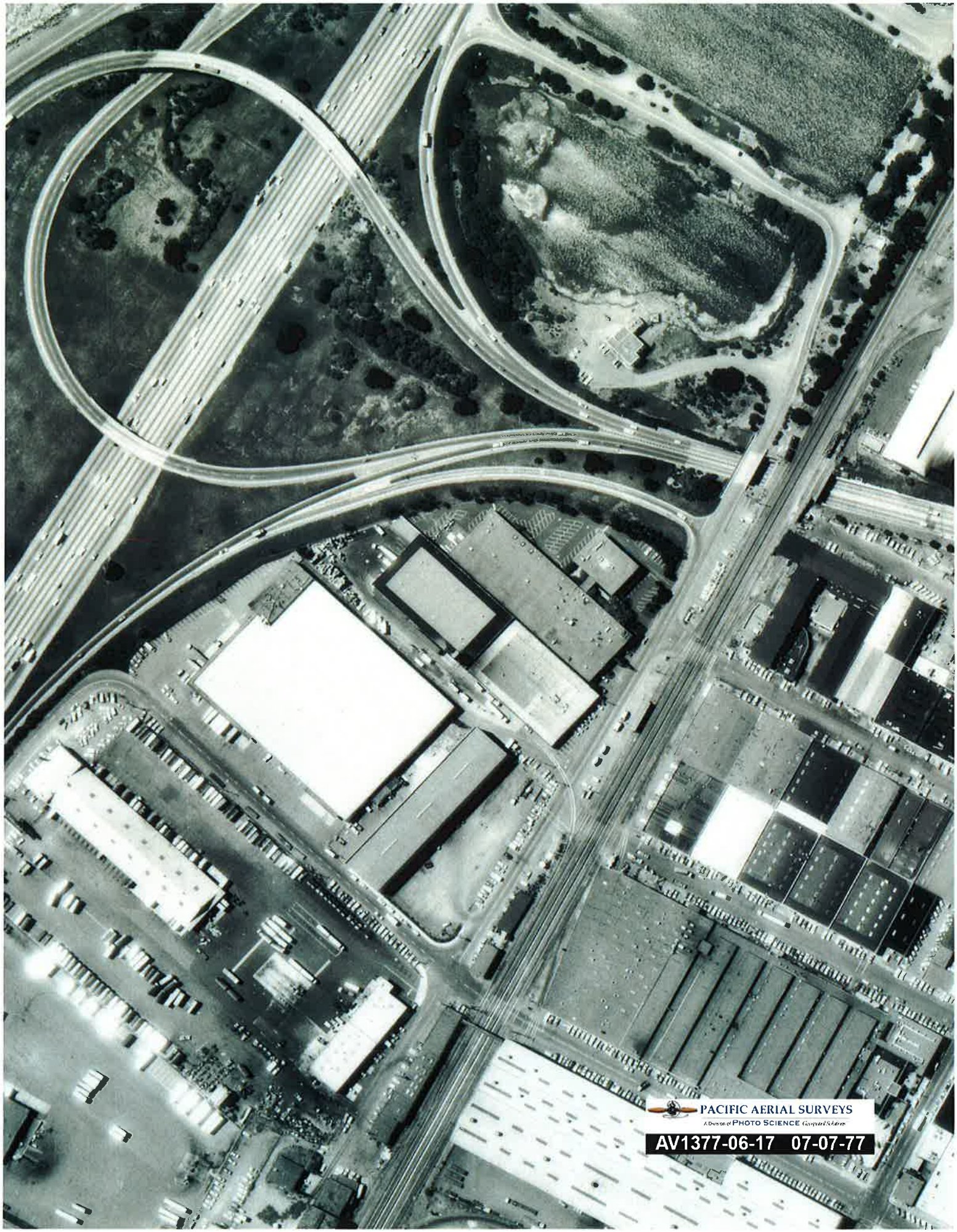

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PACIFIC AERIAL SURVEYS
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AV119-08-24 08-14-53


PACIFIC AERIAL SURVEYS
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AV253-07-19 05-03-57


PACIFIC AERIAL SURVEYS
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AV337-07-22 07-07-59


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AV902-06-17 05-02-69


PACIFIC AERIAL SURVEYS
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AV1377-06-17 07-07-77

APPENDIX C

SANBORN FIRE INSURANCE MAPS

Appendix C
Sanborn Fire Insurance Maps Review
6701, 6705, and 6707 Shellmound Street
Emeryville, California

Date	Comments
1903	A wharf structure, which is occupied by a hide warehouse, is shown in the central portion of the subject property. The remainder of the site is part of the San Francisco Bay. The areas immediately north and south of the subject property are also part of the San Francisco Bay. Further south are buildings occupied by slaughter houses. Southern Pacific railroad tracks are shown directly east of the site, and further east are commercial/industrial businesses. These businesses include a lumber yard, a building occupied by a business (Chemical Works) that manufactures glue and gelatine, and a tannery and wool pullery business (T.W. Corders).
1911	The wharf structure is present and is still occupied by a hide warehouse. In addition, a short pier structure that houses a salt water pump house is located just north of the warehouse. A 6-inch diameter pipe (labeled as "Private Salt Water Main") exits the pump house and runs southward along the east side of the railroad tracks. The remainder of the site is part of the San Francisco Bay. A building to the east that was occupied by a glue and gelatine manufacturing business in 1903 is now labeled as not used. The remaining areas south and east of the site have not changed.
1950	The wharf/warehouse and pier/salt water pump house structures are still present on the site. The map does not indicate whether the warehouse is occupied. The Ashby Avenue off-ramp is now shown north of the site. According to the map, the San Francisco Bay covers the remainder of the site. The buildings to the east are now occupied by a steel warehouse (Coulter Steel & Forge Company), a company that manufactures insulation and weather stripping (Chamberlin Company), and the wool pullery business (T.W. Corders). One of the slaughter houses to the south is no longer present. Three steel fuel oil underground storage tanks (USTs) are shown at a building located northeast of the site (i.e., on the north side of Ashby Avenue).
1952	With the exception of a small body of water (labeled as a slough) in the vicinity of the pier/salt water pump house structure, it appear that the site and surrounding areas have been filled. The wharf structure is no longer shown on the map, but the warehouse is present. The map does not indicate whether the warehouse is occupied. The remaining map features and structures are similar to the 1950 map except the property to the northeast with the USTs is not shown on this map.
1967	The office and warehouse buildings that currently occupy the site are now present. The map indicates that Dymo Industries, Inc., a plastic specialties manufacturer, resides at the subject property. Two warehouse buildings have been constructed immediately south of the subject property. A railroad spur is located between these buildings. The warehouse building closest to the subject property stores sugar and wholesale liquor and the building further south is labeled as a Louis Stores, Inc. Whol. Gro. The railroad tracks are shown directly east of the site. The buildings east of the railroad tracks are occupied by a Coulter Steel & Forge Company, Reliance Sheet & Strip Co. & Rods Inc., a carton stock warehouse, a janitorial supply warehouse, and a wholesale liquor warehouse. The property to the northeast with the USTs (see 1950 map) is not shown on this map.

6701, 6705, & 6707 Shellmound Street
6701, 6705, & 6707 Shellmound Street
Emeryville, CA 94608

Inquiry Number: 3787465.3
December 18, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

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12/18/13

Site Name:
6701, 6705, & 6707
6701, 6705, & 6707
Emeryville, CA 94608

EDR Inquiry # 3787465.3

Client Name:
PES Environmental, Inc.
1682 Novato Boulevard
Novato, CA 94947

Contact: Julie Turnross

EDR® Environmental Data Resources Inc

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Certified Sanborn Results:

Site Name: 6701, 6705, & 6707 Shellmound Street
Address: 6701, 6705, & 6707 Shellmound Street
City, State, Zip: Emeryville, CA 94608
Cross Street:
P.O. # NA
Project: 1386.001.01.004
Certification # AD75-4EDA-B8C0

Maps Provided:

1967
1952
1950
1911
1903

Sanborn® Library search results
Certification # AD75-4EDA-B8C0

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
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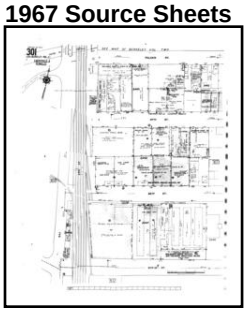
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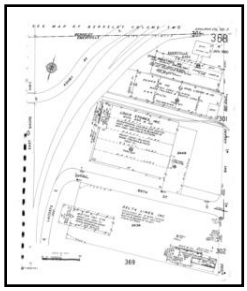
Sanborn Sheet Thumbnails

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1967 Source Sheets

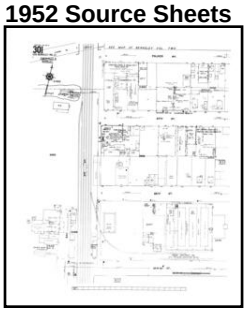


Volume 3, Sheet 301



Volume 3, Sheet 368

1952 Source Sheets

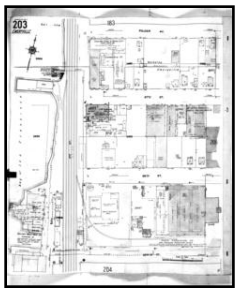


Volume 3, Sheet 301

1950 Source Sheets

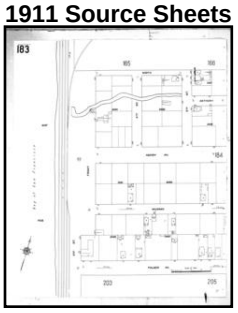


Volume 2, Sheet 183



Volume 2, Sheet 203

1911 Source Sheets

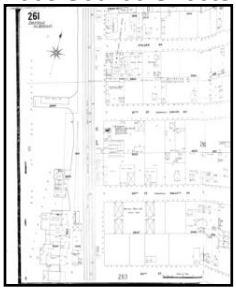


Volume 2, Sheet 183



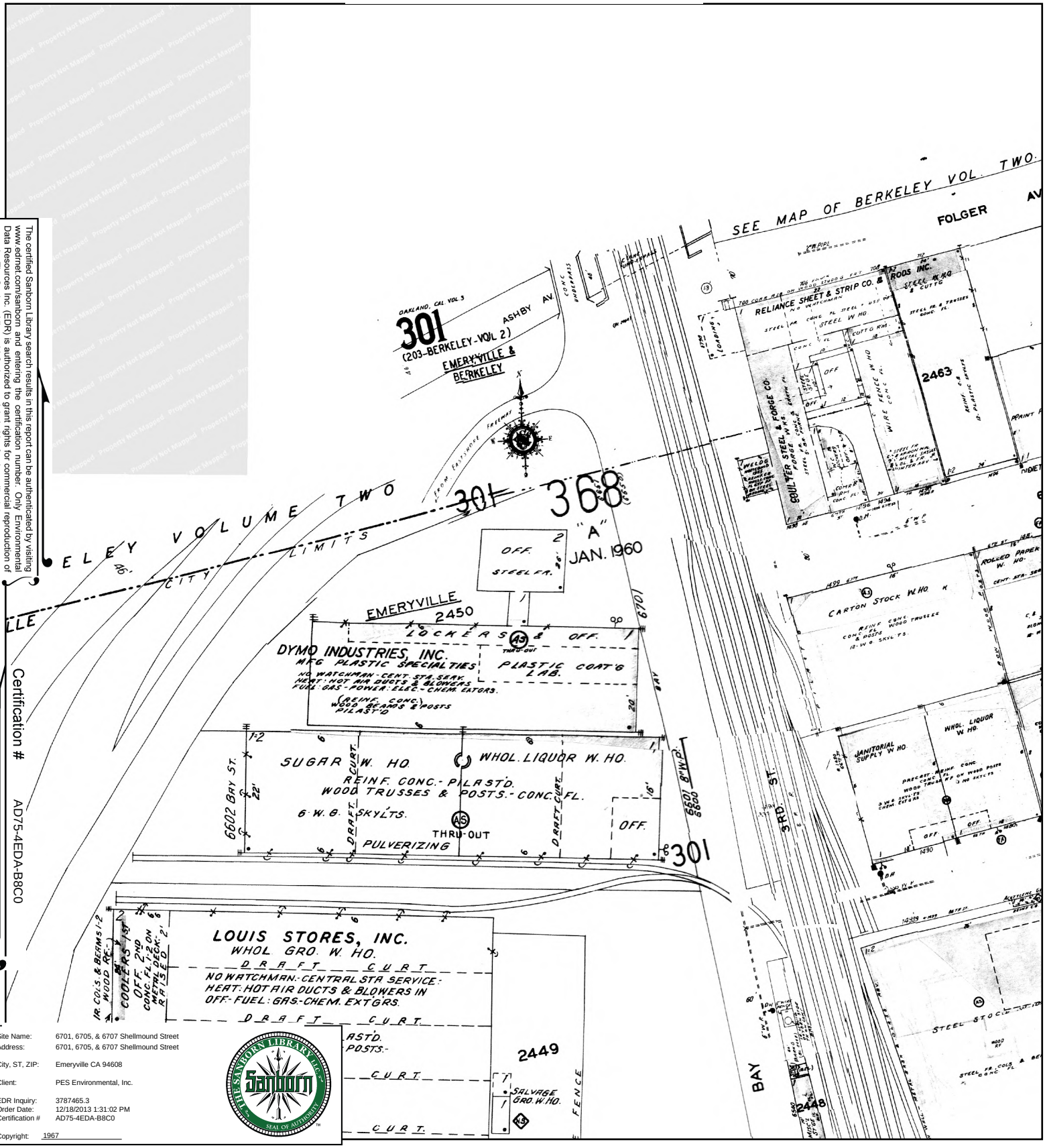
Volume 2, Sheet 203

1903 Source Sheets



Volume 3, Sheet 261

1967 Certified Sanborn Map



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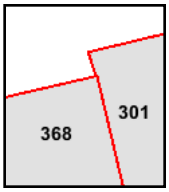
Certification # AD75-4EDA-B8C0

Site Name:	6701, 6705, & 6707 Shellmound Street
Address:	6701, 6705, & 6707 Shellmound Street
City, ST, ZIP:	Emeryville CA 94608
Client:	PES Environmental, Inc.
EDR Inquiry:	3787465.3
Order Date:	12/18/2013 1:31:02 PM
Certification #	AD75-4EDA-B8C0
Copyright:	1967

This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.

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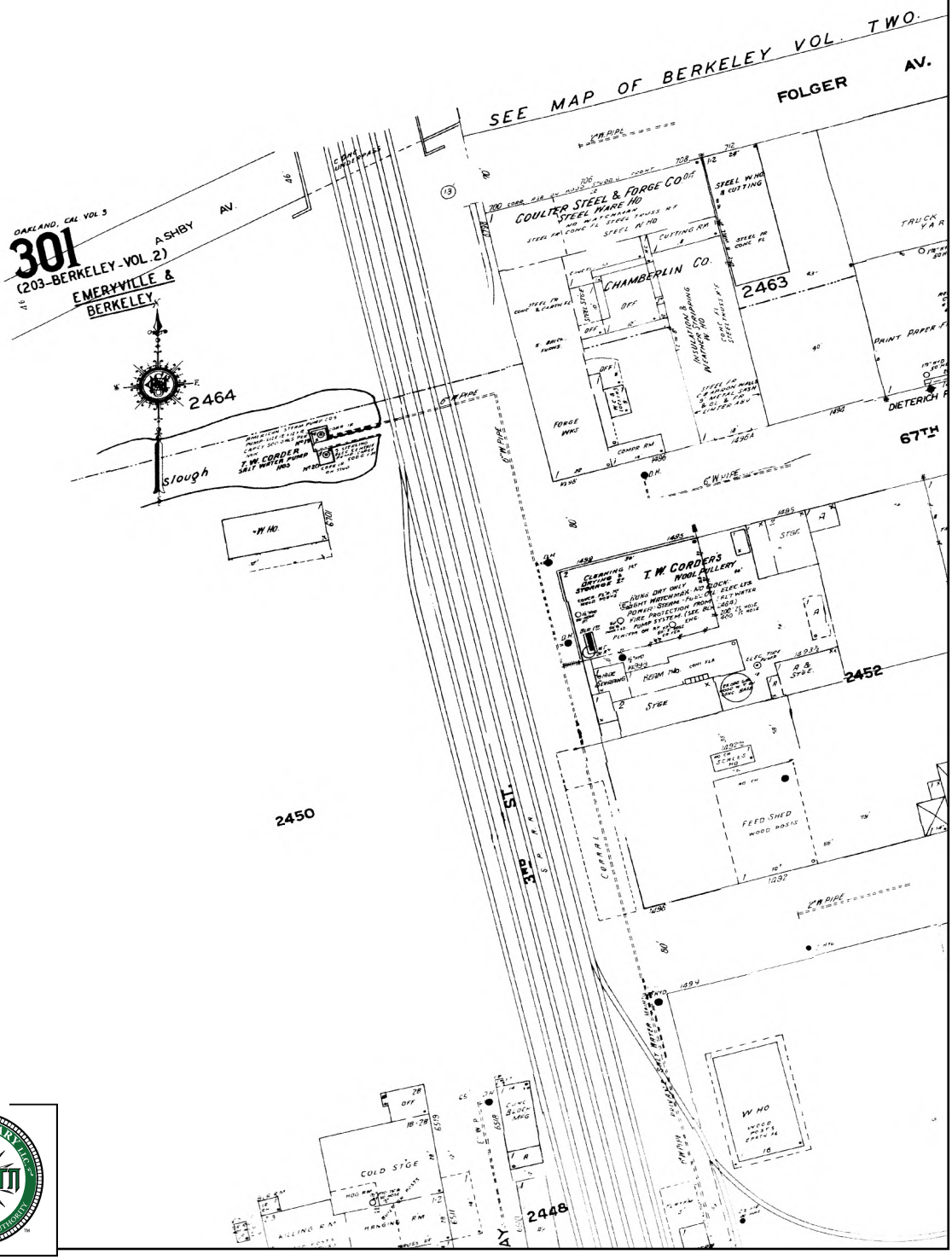




Volume 3, Sheet 301
Volume 3, Sheet 368

N

1952 Certified Sanborn Map



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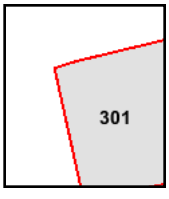
Certification # AD75-4EDA-B8C0

Site Name:	6701, 6705, & 6707 Shellmound Street
Address:	6701, 6705, & 6707 Shellmound Street
City, ST, ZIP:	Emeryville CA 94608
Client:	PES Environmental, Inc.
EDR Inquiry:	3787465.3
Order Date:	12/18/2013 1:31:02 PM
Certification #	AD75-4EDA-B8C0
Copyright:	1952

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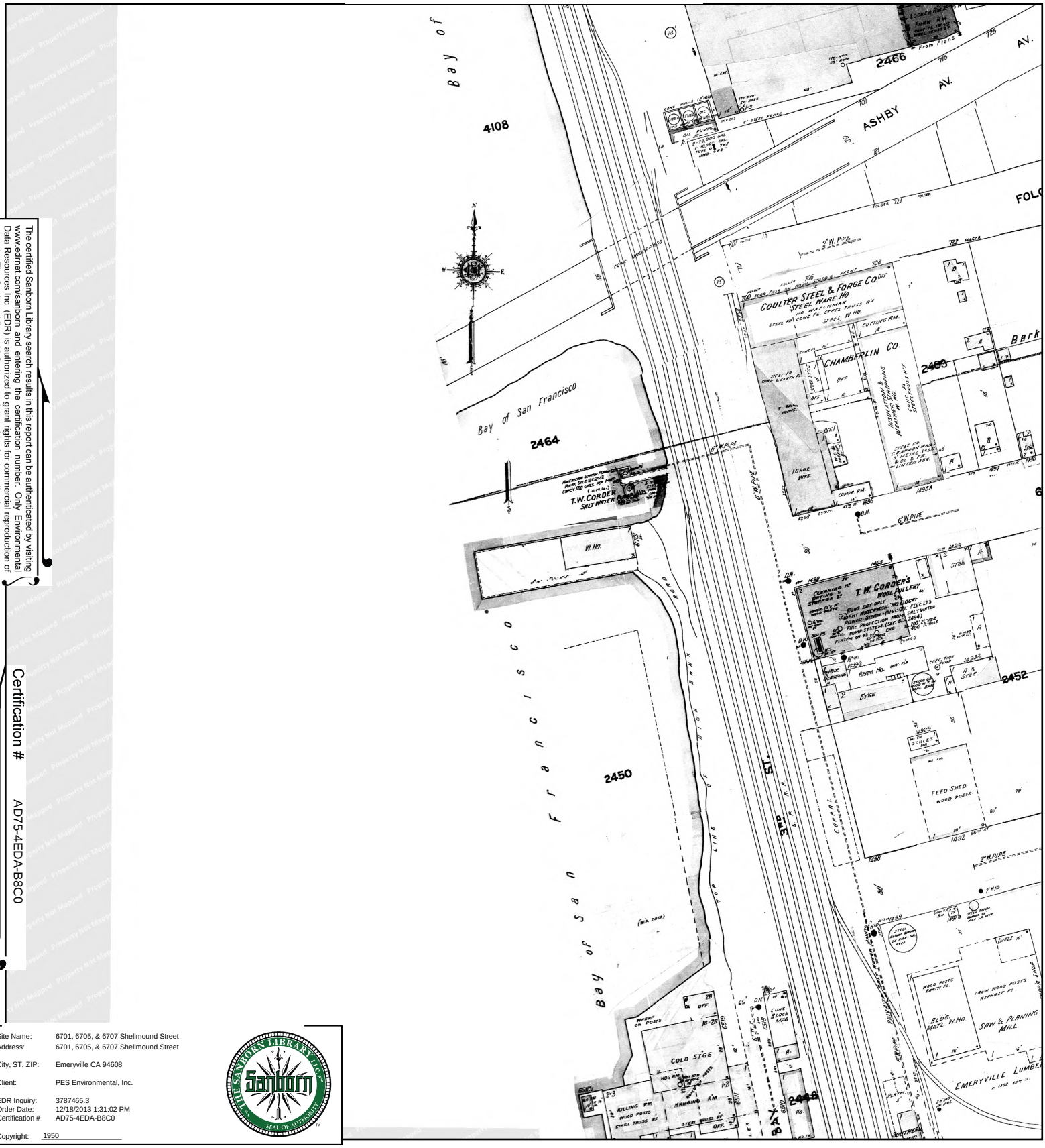




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N

1950 Certified Sanborn Map

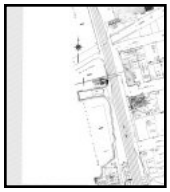


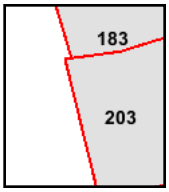
The certified Sanborn Library search results in this report can be authenticated by visiting www.ednet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # AD75-4EDA-B8C0

Site Name:	6701, 6705, & 6707 Shellmound Street
Address:	6701, 6705, & 6707 Shellmound Street
City, ST, ZIP:	Emeryville CA 94608
Client:	PES Environmental, Inc.
EDR Inquiry:	3787465.3
Order Date:	12/18/2013 1:31:02 PM
Certification #	AD75-4EDA-B8C0
Copyright:	1950

This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.

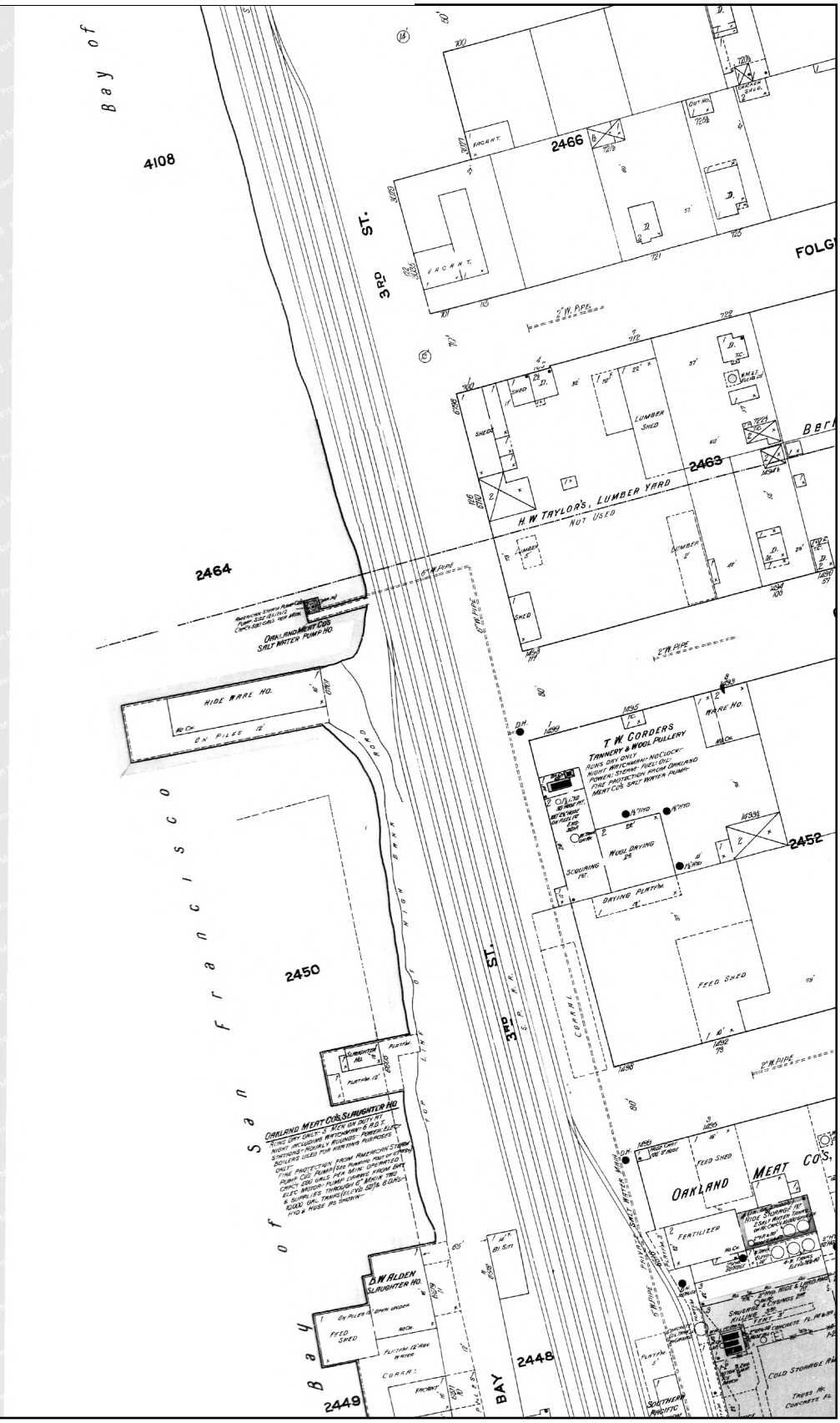




Volume 2, Sheet 183
Volume 2, Sheet 203

0 Feet 150 300 600

1911 Certified Sanborn Map



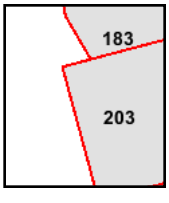
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # AD75-4EDA-B8C0

Site Name:	6701, 6705, & 6707 Shellmound Street
Address:	6701, 6705, & 6707 Shellmound Street
City, ST, ZIP:	Emeryville CA 94608
Client:	PES Environmental, Inc.
EDR Inquiry:	3787465.3
Order Date:	12/18/2013 1:31:02 PM
Certification #	AD75-4EDA-B8C0
Copyright:	1911

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



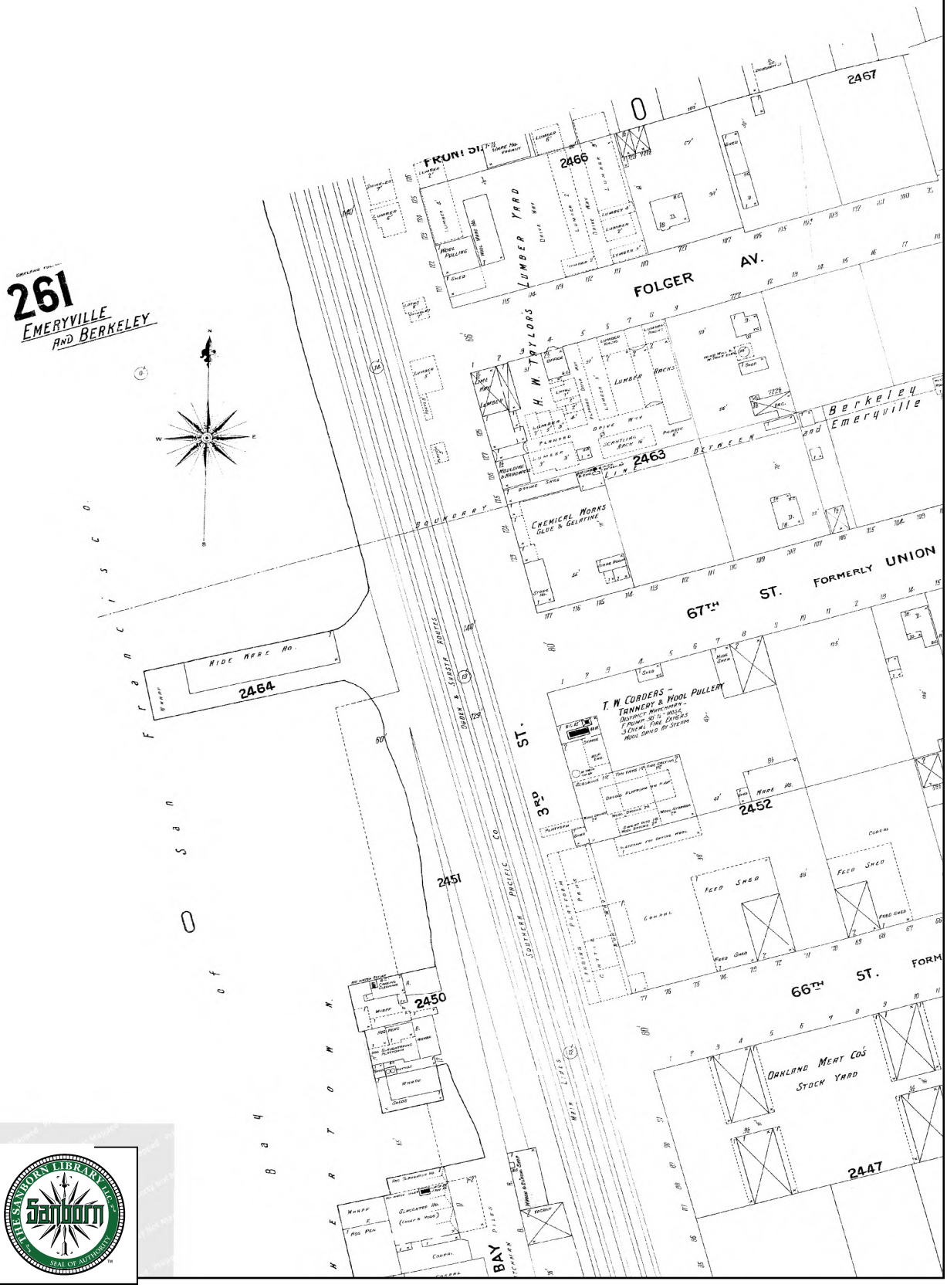


Volume 2, Sheet 183
Volume 2, Sheet 203

0 Feet 150 300 600

N

1903 Certified Sanborn Map



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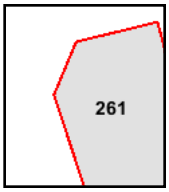
Certification # AD75-4EDA-B8C0

Site Name:	6701, 6705, & 6707 Shellmound Street
Address:	6701, 6705, & 6707 Shellmound Street
City, ST, ZIP:	Emeryville CA 94608
Client:	PES Environmental, Inc.
EDR Inquiry:	3787465.3
Order Date:	12/18/2013 1:31:02 PM
Certification #	AD75-4EDA-B8C0
Copyright:	1903

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600





Volume 3, Sheet 261

N

APPENDIX D

HISTORICAL TOPOGRAPHIC MAPS

Appendix D
Historical Topographic Maps Review
6701, 6705, and 6707 Shellmound Street
Emeryville, California

Subject Property

Date	Comments
1895	The map shows the subject property was part of San Francisco Bay.
1915	The map shows the subject property was part of San Francisco Bay. A small pier-like structure may be present in the northern portion of the site.
1948	When the exception of a small area in the northernmost portion of the site, the site is covered with water.
1949	The map shows the subject property as completely filled with no standing water. No structures are shown on the subject property.
1959	The map shows the subject property as vacant.
1968	The map shows the current site buildings.
1973	No notable changes to the subject property compared to the 1968 map.
1980	No notable changes to the subject property compared to the 1973 map.
1993	No notable changes to the subject property compared to the 1980 map.

Subject Property Vicinity

Date	Comments
1895	The subject property vicinity to the immediate north, south, and west is part of the San Francisco Bay. North/south trending railroad tracks are present directly east of subject property. Some structures are shown along and east of the railroad tracks.
1915	The areas immediately north, south, and west of the subject property are still part of the San Francisco Bay. Some additional structures are shown in the subject property vicinity compared to the 1895 map. In addition, a long pier is present in the subject property vicinity.
1948	A north/south trending levee has been built west of the subject property vicinity and a highway has been constructed on the levee. Highway on- and off-ramps for Ashby Avenue have been constructed. The pier shown on the 1915 map is no longer present. The areas north and south of the subject property vicinity are mostly filled with water. Some larger commercial/industrial buildings are shown east and south of the site.
1949	The area south of the subject property has now been completely filled. There are no other notable changes compared to the 1948 map.
1959	A new building has been constructed immediately south of the subject property, and a few additional buildings have been constructed further south of the site and to the east. There are no other notable changes compared to the 1949 map.
1968	A few additional commercial/industrial buildings have been constructed further south of the site and to the east. There are no other notable changes compared to the 1959 map.
1973	Further commercial/industrial development is shown south of the subject property.
1980	Further commercial/industrial development is shown south and east of the subject property.
1993	There are no notable changes compared to the 1980 map.

6701, 6705, & 6707 Shellmound Street
6701, 6705, & 6707 Shellmound Street
Emeryville, CA 94608

Inquiry Number: 3787465.4
November 15, 2013

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

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

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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Historical Topographic Map



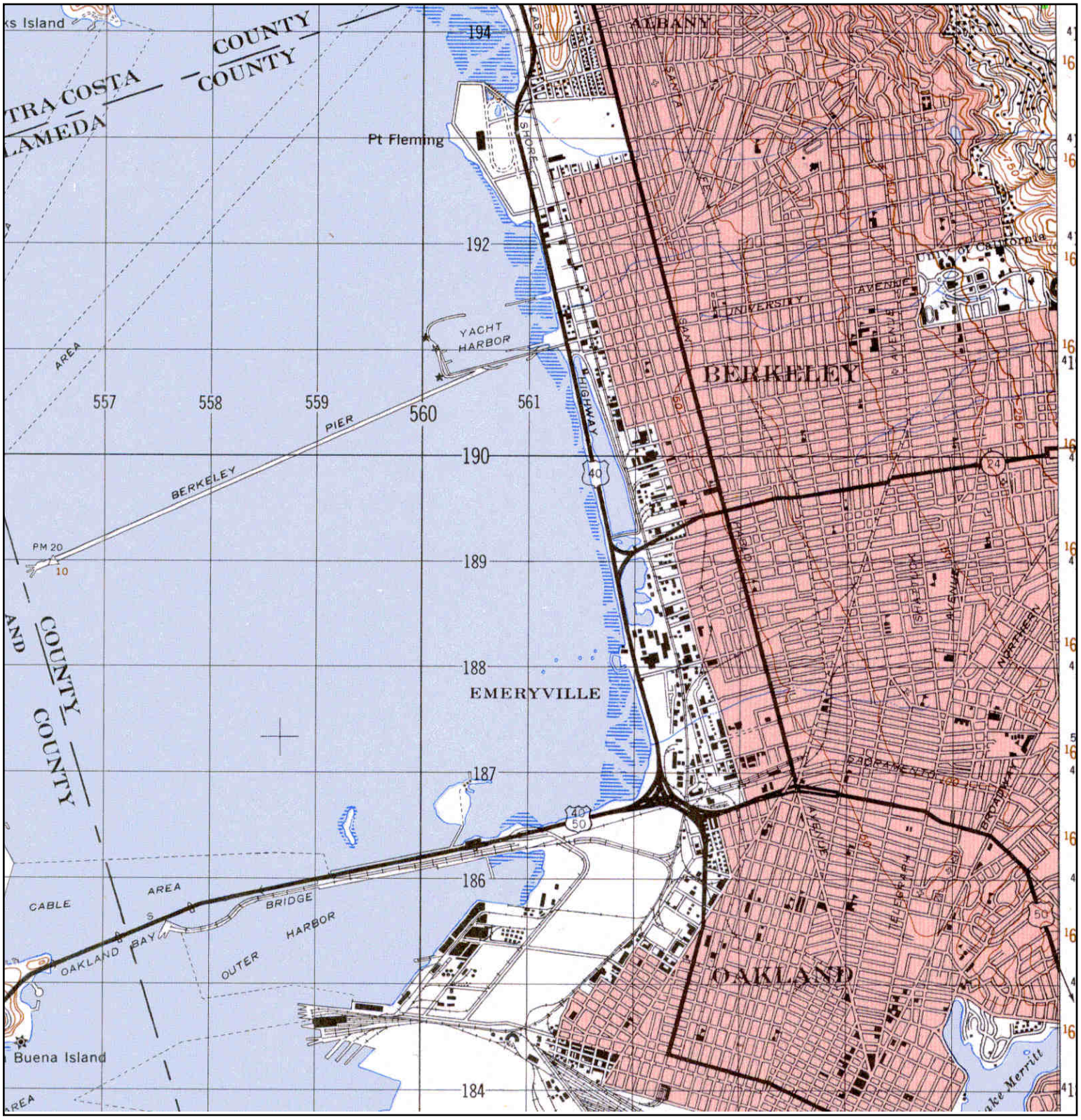
N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1895 SERIES: 15 SCALE: 1:62500	SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8483 / -122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY#: 3787465.4 RESEARCH DATE: 11/15/2013

Historical Topographic Map



N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1915 SERIES: 15 SCALE: 1:62500	SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8483 / -122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY#: 3787465.4 RESEARCH DATE: 11/15/2013

Historical Topographic Map



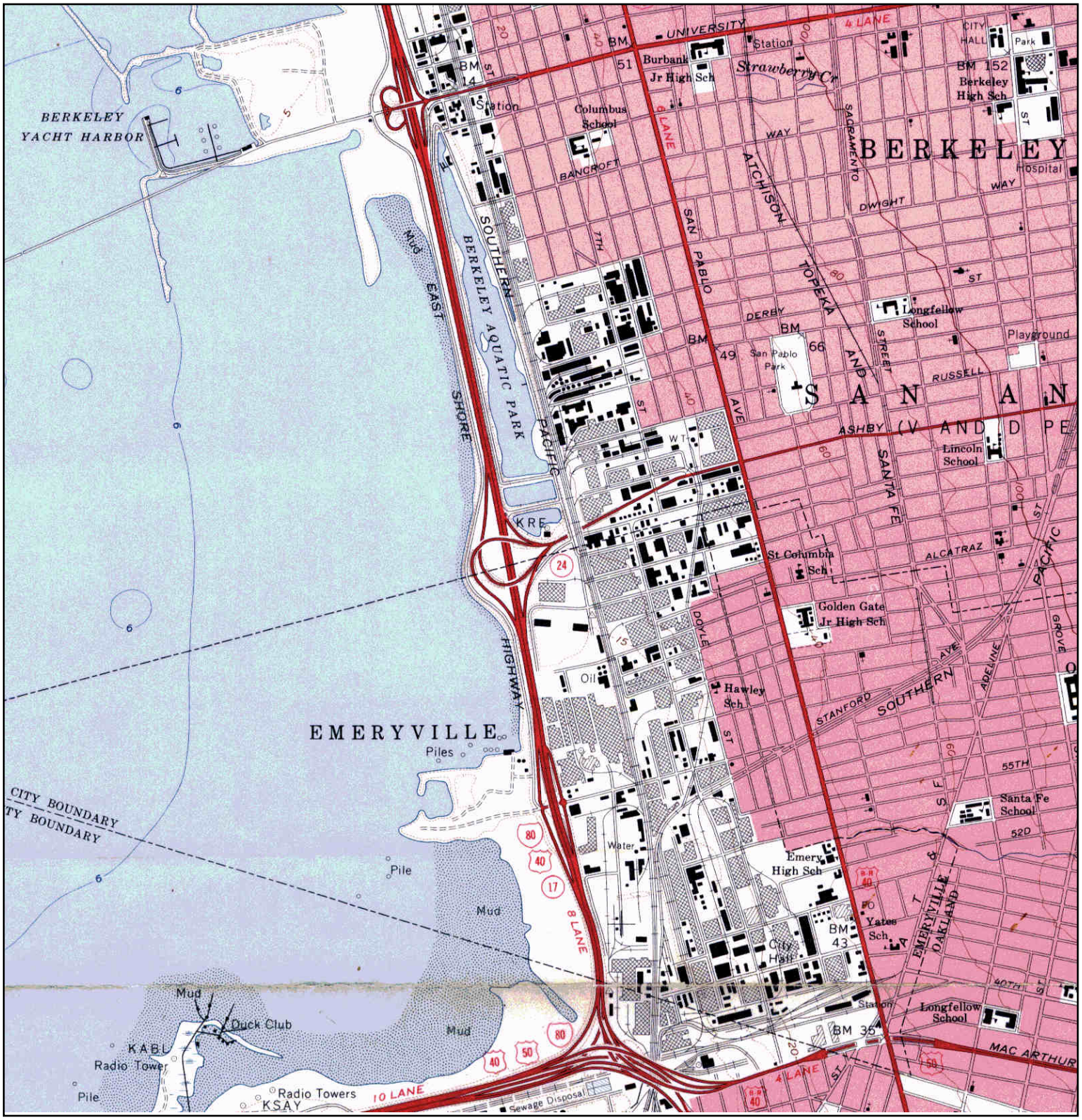
N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1948 SERIES: 15 SCALE: 1:50000	SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8483 / -122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY#: 3787465.4 RESEARCH DATE: 11/15/2013

Historical Topographic Map



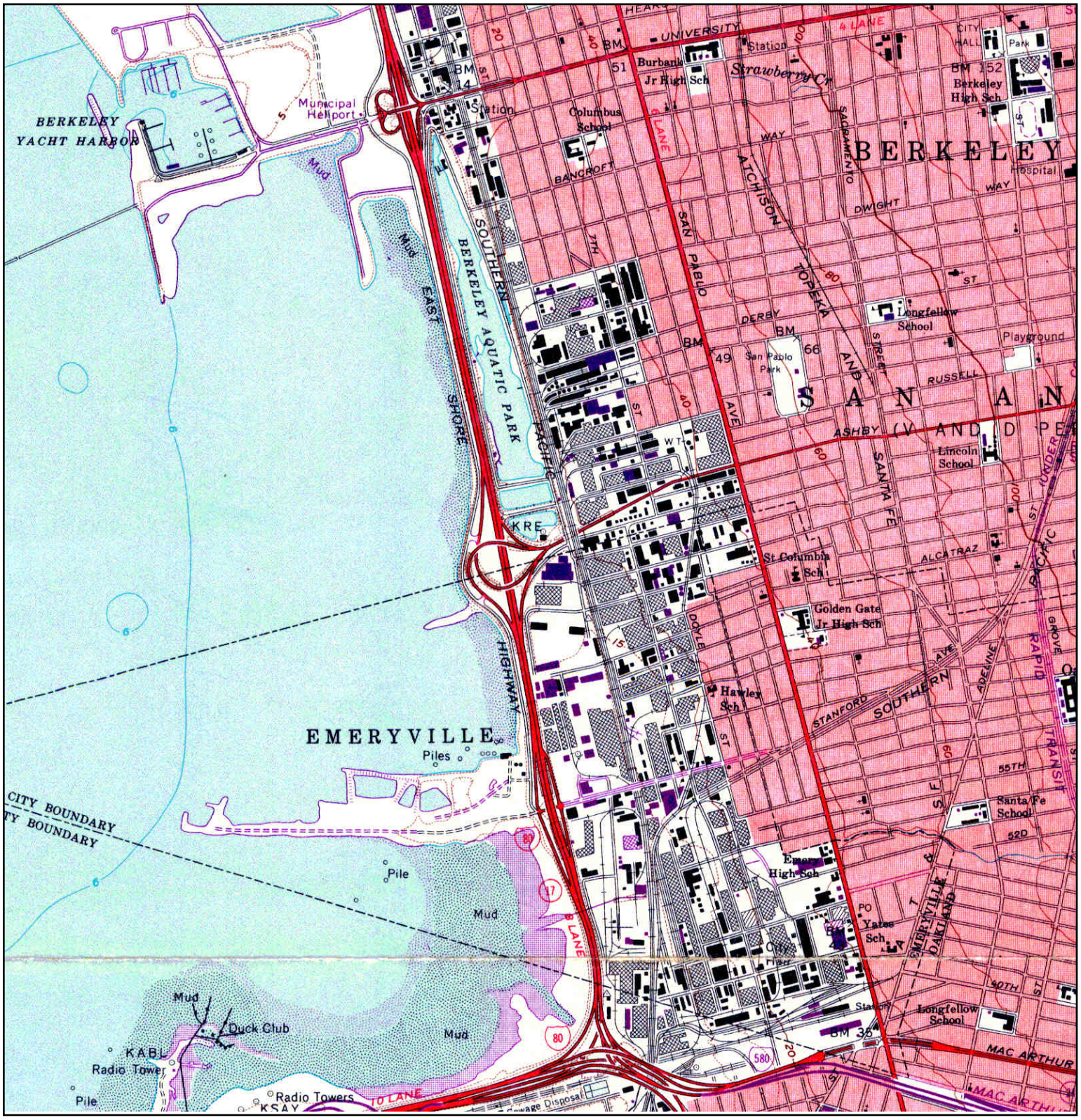
N	TARGET QUAD NAME: OAKLANDWEST MAP YEAR: 1949 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8483 / -122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY#: 3787465.4 RESEARCH DATE: 11/15/2013

Historical Topographic Map



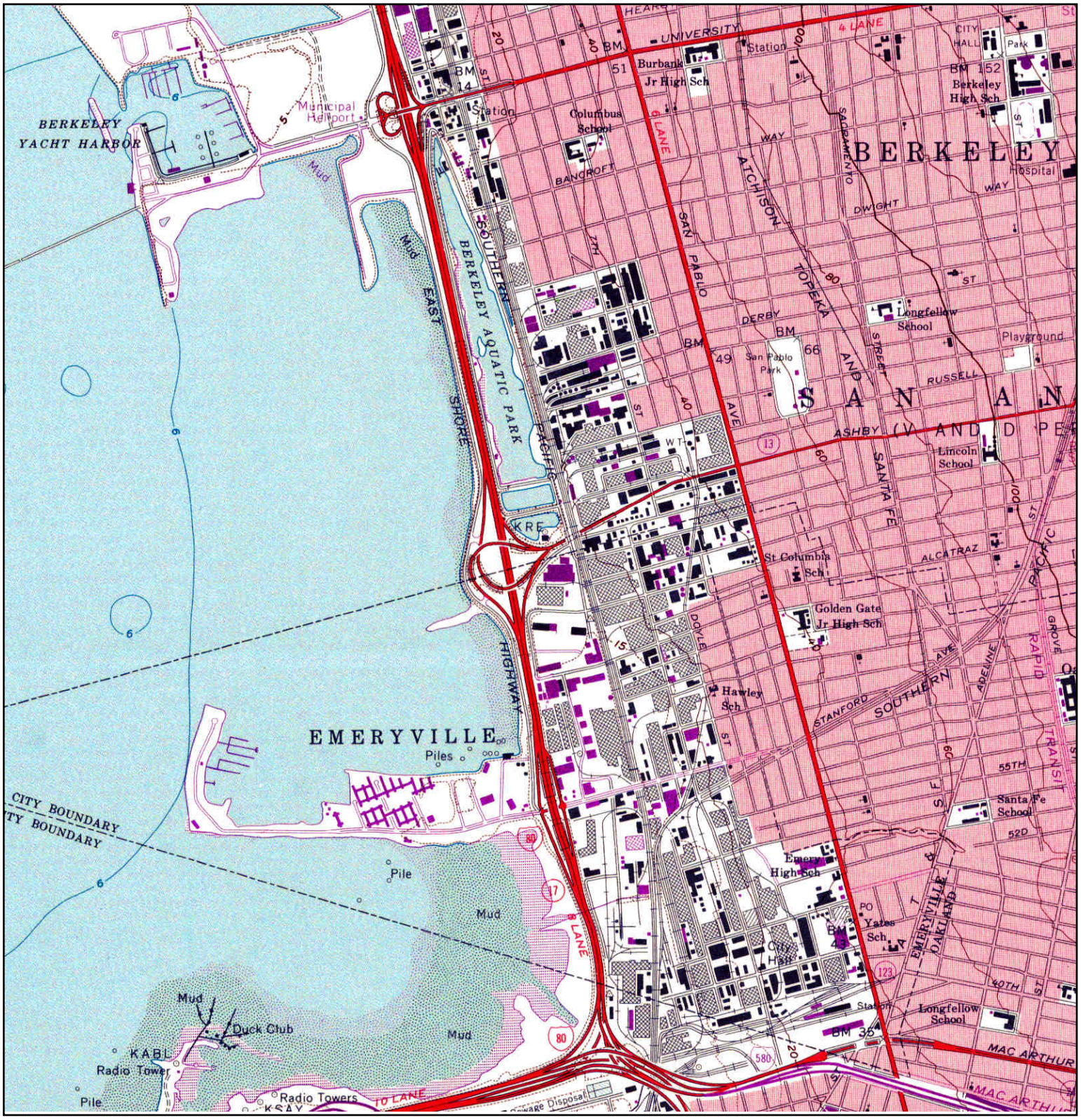
N	TARGET QUAD NAME: OAKLANDWEST MAP YEAR: 1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8483 / -122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY#: 3787465.4 RESEARCH DATE: 11/15/2013

Historical Topographic Map



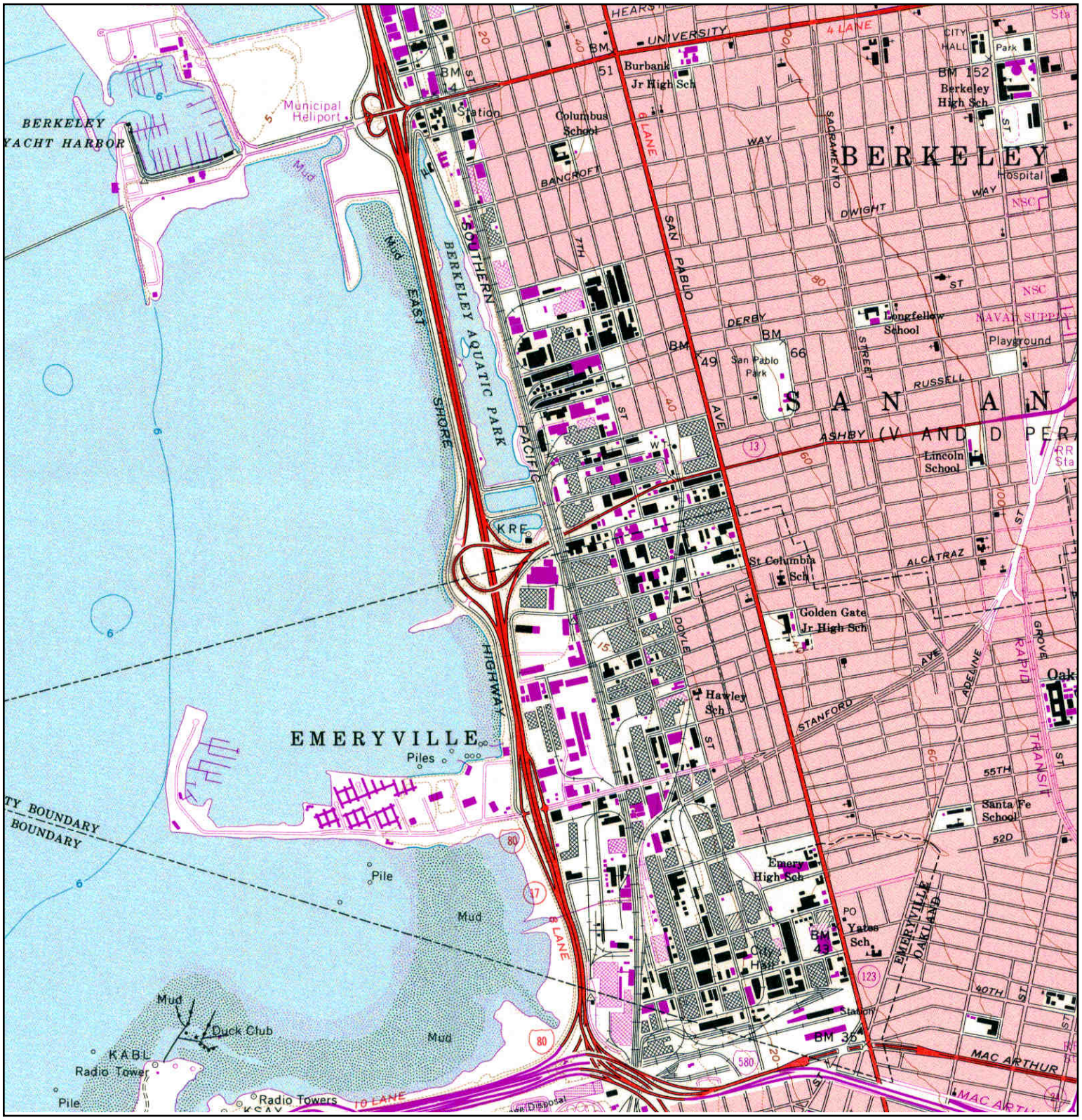
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Historical Topographic Map



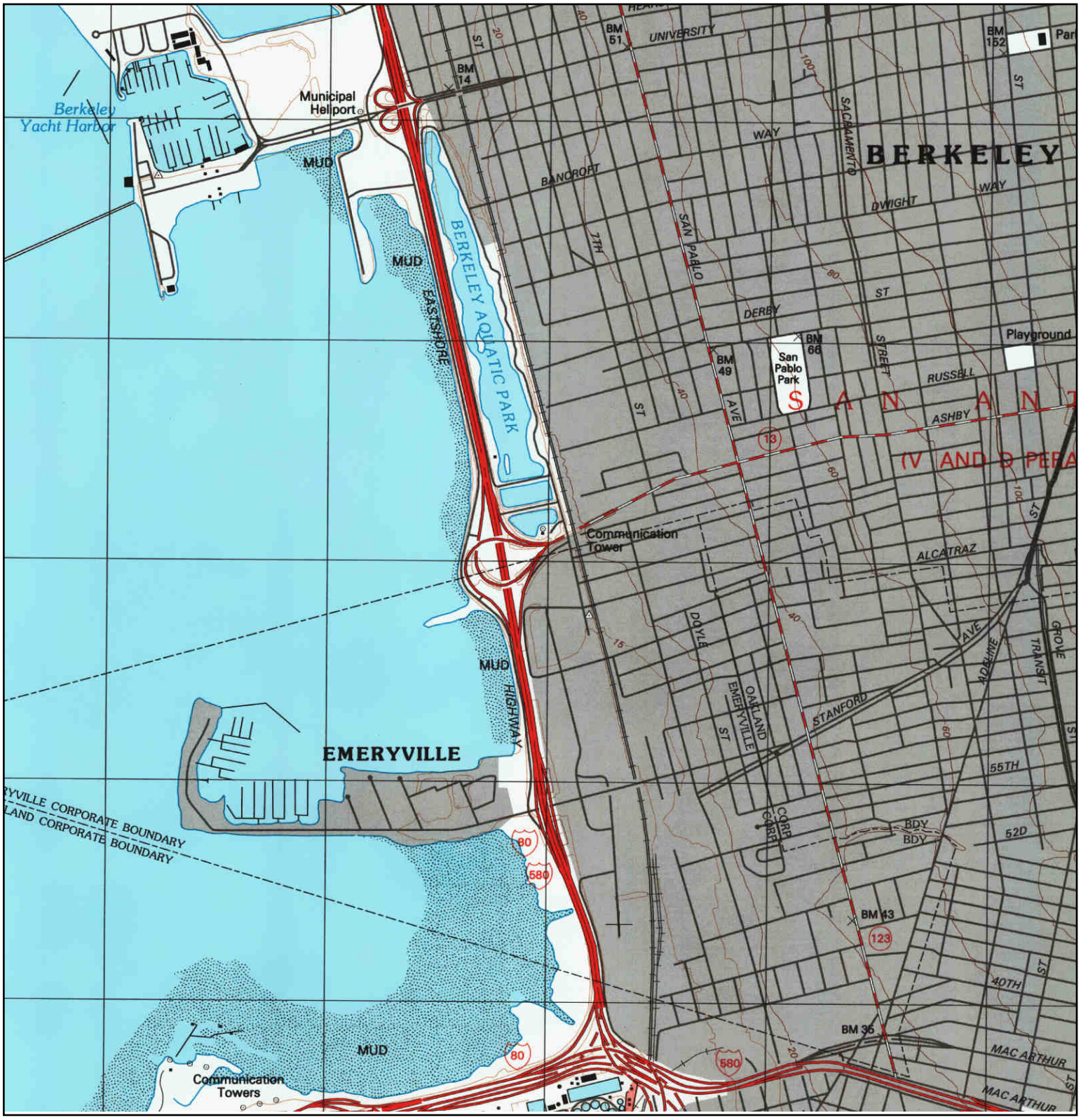
N	TARGET QUAD NAME: OAKLANDWEST MAP YEAR: 1973 PHOTOREVISED FROM :1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8483 / -122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY#: 3787465.4 RESEARCH DATE: 11/15/2013

Historical Topographic Map



N	TARGET QUAD NAME: OAKLANDWEST MAP YEAR: 1980 PHOTOREVISED FROM :1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8483 / -122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY#: 3787465.4 RESEARCH DATE: 11/15/2013

Historical Topographic Map



N	TARGET QUAD NAME: OAKLAND WEST MAP YEAR: 1993 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8483 / -122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY#: 3787465.4 RESEARCH DATE: 11/15/2013

APPENDIX E

CITY DIRECTORY LISTINGS

Appendix E
City Directories Review
6701, 6705, and 6707 Shellmound Street
Emeryville, California

Historical and Current Subject Property Addresses

6701, 6705, & 6707 Shellmound Street	
1967	O YMO (sic) PRODUCTS CO OFC EQUIP & SUP; OYMO (sic) INDUSTRIES INC MFRS PLASTICS
1970	MODULEASE INC EMERYVILLE
1975	MODULEASE INC
1980, 1986, 1991	Mike Roberts Color Productions Inc
1992	RICHARDS & STERLING
2006, 2008, 2013	NADY SYSTEMS INC

Historical and Current Adjoining Property Addresses

6601/6603 Bay Street/Shellmound Street	
2006	EXPRess ION CTR FOR New m EDIA (sic)
2008, 2013	EXPRESSION COLLEGE FOR DIGITAL ARTS
6501 Bay Street/Shellmound Street	
N/A	Address not identified in research sources
1690 65th Street	
1980	Huntington Brokerage Inc food brkrs

6701, 6705, & 6707 Shellmound Street
6701, 6705, & 6707 Shellmound Street
Emeryville, CA 94608

Inquiry Number: 3787465.6
November 18, 2013

The EDR-City Directory Abstract

Environmental Data Resources Inc

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

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

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

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

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

RESEARCH SUMMARY

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

Year	*Source*	*TP*	*Adjoining*	*Text Abstract*	*Source Image*
2013	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2008	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2002	R. L. Polk & Co.	-	-	-	-
2000	Pacific Bell	-	X	X	-
1996	PACIFIC BELL DIRECTORY	-	X	X	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	X	X	X	-
1991	PACIFIC BELL WHITE PAGES	X	X	X	-
1986	PACIFIC BELL WHITE PAGES	X	X	X	-
1984	Pacific Bell	-	-	-	-
1982	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	X	X	X	-
1979	Pacific Telephone	-	-	-	-
1976	Pacific Telephone	-	-	-	-
1975	Pacific Telephone	X	X	X	-
1973	Pacific Telephone	-	-	-	-
1970	Pacific Telephone Directory	X	X	X	-
1967	R. L. Polk & Co.	X	X	X	-
1965	R. L. Polk & Co.	-	X	X	-
1962	Pacific Telephone	-	X	X	-
1960	Pacific Telephone	-	-	-	-
1959	R. L. Polk & Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1956	Pacific Telephone	-	-	-	-
1955	The Pacific Telephone & Telegraph Co.	-	X	X	-
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	X	X	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	X	X	-
1943	R. L. Polk & Co.	-	X	X	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	X	X	-
1933	R. L. Polk & Co.	-	X	X	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R.L. Polk and Co of California	-	X	X	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	X	X	-
1920	R. L. Polk & Co. of California	-	X	X	-

EXECUTIVE SUMMARY

MAP INFORMATION

The Overview Map provides information on nearby property parcel boundaries. Properties on this map that were selected for research are listed below the map.



SELECTED ADDRESSES

The following addresses were selected by the client. Detailed findings are contained in the findings section. An "X" indicates where information was identified.

Address	***Type***	***Findings***
6701, 6705, & 6707 Shellmound Street	Map ID: 1	
1690 65TH ST	Map ID: 11	X
6501 BAY ST	Map ID: 15	
6601 BAY ST	Map ID: 3	
6603 BAY ST	Map ID: 4	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

6701, 6705, & 6707 Shellmound Street
Emeryville, CA 94608

FINDINGS DETAIL

Target Property research detail.

6701, 6705, & 6707 Shellmound Street

6701, 6705, & 6707 Shellmound Street

Year	*Uses*	*Source*

SHELLMOUND ST

6701 SHELLMOUND ST

Year	*Uses*	*Source*
2013	NADY SYSTEMS INCORPORATED	Cole Information Services
2008	NADY SYSTEMS INC	Cole Information Services
2006	NADYSYSTEMS INC	Haines Company, Inc.
1992	RICHARDS & STERLING	PACIFIC BELL DIRECTORY
1991	Mike Roberts Color Productions Inc	PACIFIC BELL WHITE PAGES
	Roberts Mike Color Productions Inc	PACIFIC BELL WHITE PAGES
1986	MIKE ROBE RTS COLOR PRODUCTION S IN C	PACIFIC BELL WHITE PAGES
	Roberts Mike Color Productions Inc	PACIFIC BELL WHITE PAGES
1980	MIKE ROBERTS COLOR PRODUCTIONS INC	Pacific Telephone
	Roberts Mike Color Productions Inc	Pacific Telephone
1975	MODULEASE INC	Pacific Telephone
1970	MODULEASE INC EMERYVILLE	Pacific Telephone Directory
1967	0 YMO PRODUCTS CO OFC EQUIP & SUP	R. L. Polk & Co.
	OYMO INDUSTRIES INC MFRS	R. L. Polk & Co.
	PLASTICS	R. L. Polk & Co.

FINDINGS

ADJOINING PROPERTY DETAIL

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

65TH ST

Map ID: 11

1690 65TH ST

Year	Uses	Source
1980	Huntington Brokerage Inc food brkrs	Pacific Telephone

67TH

1460 67TH

Year	Uses	Source
1950	DEAN FLOYD W R	The Pacific Telephone & Telegraph Co.
	MC NAMES EUNICE MRS R	The Pacific Telephone & Telegraph Co.

1475 67TH

Year	Uses	Source
1950	METALCO	The Pacific Telephone & Telegraph Co.

1476 67TH

Year	Uses	Source
1950	BROWN TIBBETT R	The Pacific Telephone & Telegraph Co.
	BALDIZAN TONY R	The Pacific Telephone & Telegraph Co.

1496 67TH

Year	Uses	Source
1950	CHAMBERLIN CO OF AMER	The Pacific Telephone & Telegraph Co.
	ROBBINS MFG CO	The Pacific Telephone & Telegraph Co.

1498 67TH

Year	Uses	Source
1950	COULTER STEEL & FORGE CO	The Pacific Telephone & Telegraph Co.

FINDINGS

67TH AVLO CKHAVN

1459 67TH AVLO CKHAVN

Year	*Uses*	*Source*
1950	VAN HAGEN MILTON R	The Pacific Telephone & Telegraph Co.

1465 67TH AVLO CKHAVN

Year	*Uses*	*Source*
1950	VIEIRA ALAN DUANE R	The Pacific Telephone & Telegraph Co.

67TH AVSW EETWOOD

1447 67TH AVSW EETWOOD

Year	*Uses*	*Source*
1950	SMITH MARGARET R	The Pacific Telephone & Telegraph Co.

67TH EMVL

1450 67TH EMVL

Year	*Uses*	*Source*
1980	FARMER BROTHERS COFFEE COMPANY	Pacific Telephone

1462 67TH EMVL

Year	*Uses*	*Source*
1980	Van Wagoner Wayne T & Associates Inc	Pacific Telephone
	Investigative Consultants International	Pacific Telephone

1475 67TH EMVL

Year	*Uses*	*Source*
1980	METALCO	Pacific Telephone

1482 67TH EMVL

Year	*Uses*	*Source*
1980	Clearprint Paper Co	Pacific Telephone

1483 67TH EMVL

Year	*Uses*	*Source*
1980	MONARCH TOOL & ENGINEERING INC die makrs	Pacific Telephone

FINDINGS

1489 67TH EMVL

Year	Uses	Source
1980	Ofc	Pacific Telephone

1494 67TH EMVL

Year	Uses	Source
1980	Coulter Steel & Forge Company	Pacific Telephone

1499 67TH EMVL

Year	Uses	Source
1980	K & M Stress Inc	Pacific Telephone

67TH EW

1499 67TH EW

Year	Uses	Source
1986	Tusler Theodore	PACIFIC BELL WHITE PAGES

67TH ST

1450 67TH ST

Year	Uses	Source
2013	AEGIS REATLY PARTNERS	Cole Information Services
1996	MCKAY COMPANY	PACIFIC BELL DIRECTORY
1992	SEPHTON WATER TECHNOLOGY	PACIFIC BELL DIRECTORY
1991	Sephus Melvina	PACIFIC BELL WHITE PAGES
	Sephton Water Technology	PACIFIC BELL WHITE PAGES
1975	FEDERAL LAND BANK OF BERKELEY	Pacific Telephone
1970	FARMER BROTHERS COFFEE COMPANY EMERYVILLE	Pacific Telephone Directory
1967	FARMER BROS COFFEE CO WHOL	R. L. Polk & Co.

1459 67TH ST

Year	Uses	Source
1928	land Mary B Mrs br mgr Mutual Stores R	R.L. Polk and Co of California

1460 67TH ST

Year	Uses	Source
1955	MCNAMES EUNICE R EMERYVILLE	The Pacific Telephone & Telegraph Co.
	MCNAMES CHAS E R EMERYVILLE	The Pacific Telephone & Telegraph Co.
1943	Furtado Manuel Irene tmstr r	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1933	KOTONEN JOHN (HILMAR) H	R. L. Polk & Co.
1928	Tank Clinton C lab R	R.L. Polk and Co of California
	Seretes John Louise M H	R.L. Polk and Co of California
	Spowers Geo chauf R	R.L. Polk and Co of California
	Lewis Henry driver R	R.L. Polk and Co of California

1462 67TH ST

Year	Uses	Source
2008	BEAUTY CENTER INC	Cole Information Services
2006	WRHS&OFC	Haines Company, Inc.
	BEAUTYCNTR	Haines Company, Inc.
1996	BEAUTY CENTER	PACIFIC BELL DIRECTORY
1975	BOS MFG CO	Pacific Telephone
1970	O NEILL RAYMOND J CO EMERYVILLE	Pacific Telephone Directory
	O NEILL R J CORP EMERYVILLE	Pacific Telephone Directory
1967	0&NEILL RAYMOND CO CONSULTING	R. L. Polk & Co.
1962	Chapman Valve Mfg Co	Pacific Telephone
1943	Morris Louis J Marie lab h	R. L. Polk & Co.
1933	MORRIS LOUIS (MARY) LAB H	R. L. Polk & Co.
1928	tana Frank Rose lab H	R.L. Polk and Co of California
1925	SHEEHAN J R	R. L. Polk & Co. of California
1920	SHEEHAN J R	R. L. Polk & Co. of California

1464 67TH ST

Year	Uses	Source
2013	ADMAC DIGITAL IMAGING	Cole Information Services
2008	ADMAC PREPRESS INC	Cole Information Services
	ADMAC DIGITAL IMAGING	Cole Information Services
1996	KELLY MARTY PHOTOGRAPHER	PACIFIC BELL DIRECTORY
	RAINBO GRAPHIX	PACIFIC BELL DIRECTORY
	ADMAC PREPRESS	PACIFIC BELL DIRECTORY
1970	B O S MFG CO EMERYVILLE	Pacific Telephone Directory
	BOS MFG CO	Pacific Telephone Directory
1967	B 0 S MACHINE SHOP	R. L. Polk & Co.

1471 67TH ST

Year	Uses	Source
2006	ARTHUR FREYER	Haines Company, Inc.
	LIGHTING	Haines Company, Inc.

FINDINGS

1472 67TH ST

Year	Uses	Source
1933	MENDONCA JOS LAB R	R. L. Polk & Co.
1928	Glendale Wm E lab H	R.L. Polk and Co of California
	Lake Chas slsmn R	R.L. Polk and Co of California

1475 67TH ST

Year	Uses	Source
2013	METALCO INC	Cole Information Services
	CA CONTRACT COMPANY	Cole Information Services
2008	METALCO	Cole Information Services
2006	METALCO	Haines Company, Inc.
1996	METALCO	PACIFIC BELL DIRECTORY
1992	METALCO	PACIFIC BELL DIRECTORY
1975	METALCO	Pacific Telephone
1970	METAL CO EMERYVILLE	Pacific Telephone Directory
1967	METALCO ANODIZERS 652 747 C	R. L. Polk & Co.
1955	METALCO EMERYVILLE	The Pacific Telephone & Telegraph Co.

1476 67TH ST

Year	Uses	Source
1955	ORTIZ ENCARNACION EMERYVILLE	The Pacific Telephone & Telegraph Co.
1933	SEYMOUR FRANK (SARAH) H	R. L. Polk & Co.
1928	Seymour Frank Sarah spi police H	R.L. Polk and Co of California

1477 67TH ST

Year	Uses	Source
1945	CLARK C B R	The Pacific Telephone & Telegraph Co.
1928	Seeba Aug carp H	R.L. Polk and Co of California

1478 67TH ST

Year	Uses	Source
1945	BYARS CHARLES R EMERYVILLE	The Pacific Telephone & Telegraph Co.
1933	SOUZA FRANK (CANDID) LAB H	R. L. Polk & Co.
	SOUZA ANTONE R	R. L. Polk & Co.
1928	Shatter Cecil lab R	R.L. Polk and Co of California
	G Glenn Helen H	R.L. Polk and Co of California
	Grove Bertha R	R.L. Polk and Co of California

FINDINGS

1482 67TH ST

Year	Uses	Source
2013	GIAMPOLINI INC	Cole Information Services
2008	CLEARPRINT PAPER CO	Cole Information Services
	QUALITY TRADE SALES	Cole Information Services
2006	GIAMPOLINI INC	Haines Company, Inc.
1996	CLEARPRINT PAPER CO	PACIFIC BELL DIRECTORY
	CLEARPRINT PAPER CO	PACIFIC BELL DIRECTORY
1992	CLEARPRINT PAPER CO	PACIFIC BELL DIRECTORY
1991	Cleary A A	PACIFIC BELL WHITE PAGES
	Clearprint Paper Co	PACIFIC BELL WHITE PAGES
1975	CLEARPRINT PAPER CO	Pacific Telephone
1970	CLEARPRINT PAPER CO EMERYVILLE	Pacific Telephone Directory
1967	PRODUCTS	R. L. Polk & Co.
	CLEARPRINT PAPER CO PAPER	R. L. Polk & Co.
1955	CLEARPRINT PAPER CO EMERYVILLE	The Pacific Telephone & Telegraph Co.

1483 67TH ST

Year	Uses	Source
2013	ARCHITECTURAL METAL WORKS	Cole Information Services
	JAYCO HAWAIICALIFORNIA	Cole Information Services
2008	JAYCO HAWAII CALIFORNIA	Cole Information Services
	ARCHITECTURAL METAL SALES	Cole Information Services
2006	JAYCO HI CA	Haines Company, Inc.
	WENTWORTH	Haines Company, Inc.
	MICHAEL	Haines Company, Inc.
1996	MONARCH TOOL & ENGINEERING INC	PACIFIC BELL DIRECTORY
1992	MONARCH TOOL & ENGINEERING INC	PACIFIC BELL DIRECTORY
	KINDORF ENGINEERING CO	PACIFIC BELL DIRECTORY
1970	SUPERIOR RIGGING CORP EMERYVILLE	Pacific Telephone Directory
	CABLE DISTRIBUTORS OF SAN FRANCISCO INC EMERYVILLE	Pacific Telephone Directory
1967	C 8 C BEARING CORP WHSE	R. L. Polk & Co.
1955	EAST BAY BEVERAGE CO EMERYVILLE	The Pacific Telephone & Telegraph Co.
	FALSTAFF BEER DISTRS EMERYVILLE	The Pacific Telephone & Telegraph Co.
1928	bany Wm pntr H	R.L. Polk and Co of California
1925	TRINIDAD FRANK R	R. L. Polk & Co. of California

FINDINGS

1484 67TH ST

Year	Uses	Source
2008	COULTER FORGE TECHNOLOGIES	Cole Information Services
2006	ADMAC PREPRess	Haines Company, Inc.
	IMAGING	Haines Company, Inc.
	ADMAC DIGITIAL	Haines Company, Inc.
1928	Max lab H	R.L. Polk and Co of California

1487 67TH ST

Year	Uses	Source
2013	ENGINEWORLD	Cole Information Services
2008	ENGINEWORLD LLC	Cole Information Services
2006	ENGINewo RLD	Haines Company, Inc.

1488 67TH ST

Year	Uses	Source
1955	DIETERICH POST CO	The Pacific Telephone & Telegraph Co.

1489 67TH ST

Year	Uses	Source
1992	CORDER WALTER O	PACIFIC BELL DIRECTORY
1970	CORDER WALTER O	Pacific Telephone Directory
1967	CORDER WALTER 0 CO MFR AGTS	R. L. Polk & Co.

1490 67TH ST

Year	Uses	Source
2006	R & L WRHS DISTBN	Haines Company, Inc.
1996	R & L WAREHOUSE DISTRIBUTION SERVICES	PACIFIC BELL DIRECTORY

1492 67TH ST

Year	Uses	Source
1955	CHAMBERLIN CO OF AMERICA	The Pacific Telephone & Telegraph Co.
	CHAMBERLIN CO OF AMERICA	The Pacific Telephone & Telegraph Co.

1493 67TH ST

Year	Uses	Source
1967	SAINT REGIS PAPER CO WHSE	R. L. Polk & Co.

FINDINGS

1494 67TH ST

Year	Uses	Source
2013	COULTER FORGE TECHNOLOGY INC	Cole Information Services
2008	COULTER FORGE TECHNOLOGY	Cole Information Services
2006	COULTER STEELS	Haines Company, Inc.
	FORGE CO	Haines Company, Inc.
1996	COULTER STEEL & FORGE COMPANY	PACIFIC BELL DIRECTORY
1992	COULTER STEEL & FORGE COMPANY	PACIFIC BELL DIRECTORY
1975	COULTER STEEL & FORGE COMPANY	Pacific Telephone
1970	COULTER STEEL & FORGE COMPANY EMERYVILLE	Pacific Telephone Directory
1967	COULTER STEEL & FORGE CO	R. L. Polk & Co.
	FORGING MFRS	R. L. Polk & Co.
1955	COULTER STEEL & FORGE COMPANY EMERYVILLE	The Pacific Telephone & Telegraph Co.
1945	BARCELLOS WM R	The Pacific Telephone & Telegraph Co.
1943	Barcellos Wm Mary coremkr r	R. L. Polk & Co.
1938	BARCELLOS WM R	Pacific Telephone
1933	BARCELLOS WM (MARY) MLDR H	R. L. Polk & Co.
1928	Wm mcoremkr R	R.L. Polk and Co of California
	Bercellos Frank Mary R	R.L. Polk and Co of California
	Bercellos Wm Mary mldr H	R.L. Polk and Co of California
	Bercellos Wm jr R	R.L. Polk and Co of California

1496 67TH ST

Year	Uses	Source
1945	SIBBETT GEO E COULTER SIBBETT STEEL CO EMERYVILLE	The Pacific Telephone & Telegraph Co.
	COULTER SIBBETT STEEL CO EMERYVILLE	The Pacific Telephone & Telegraph Co.
	BERKELEY FORGE SEE COULTER-SIBBETT STEEL CO EMERYVILLE	The Pacific Telephone & Telegraph Co.

1499 67TH ST

Year	Uses	Source
2006	ENGINewo RLD	Haines Company, Inc.
1996	R & L WAREHOUSE DISTRIBUTION SERVICES	PACIFIC BELL DIRECTORY
	67TH	PACIFIC BELL DIRECTORY
	HARMON CONTRACT WSA INC	PACIFIC BELL DIRECTORY
	HOBART BROS & ASSOCIATES	PACIFIC BELL DIRECTORY
1992	HOBART BROS & ASSOCIATES	PACIFIC BELL DIRECTORY

FINDINGS

Year	Uses	Source
1992	RYPINS-LIPINSKI & ASSOC	PACIFIC BELL DIRECTORY
	JOHNSON C LLOYD CO	PACIFIC BELL DIRECTORY
	R & L WAREHOUSE DISTRIBUTION SERVICES	PACIFIC BELL DIRECTORY
1991	Cooley Roofing Systems Rep	PACIFIC BELL WHITE PAGES
	Cooley V	PACIFIC BELL WHITE PAGES
	Coolidge CE	PACIFIC BELL WHITE PAGES
	Coolidge Carolyn P	PACIFIC BELL WHITE PAGES
	Coolidge David A & Nancy C Brk	PACIFIC BELL WHITE PAGES
	Johnson C Lloyd Co	PACIFIC BELL WHITE PAGES
	Johnson CM	PACIFIC BELL WHITE PAGES
	Johnson CR	PACIFIC BELL WHITE PAGES
	R & L Warehouse Distribution Services	PACIFIC BELL WHITE PAGES
	R & M Data Processing	PACIFIC BELL WHITE PAGES
	RM Dental Ceramics	PACIFIC BELL WHITE PAGES
1967	PRODUCTS	R. L. Polk & Co.
	CONTAINER DIV PAPER	R. L. Polk & Co.
	SAINT REGIS PAPER CO	R. L. Polk & Co.
1945	DELANEY J C R BERKELEY	The Pacific Telephone & Telegraph Co.
1938	JALOFSKI JOSEPH A R	Pacific Telephone
1933	JALOFSKI JOS A (FRANCES B) H BERKELEY	R. L. Polk & Co.
	STAFFORD EDW J R BERKELEY	R. L. Polk & Co.
1928	Jalofski Jos A Frances B H	R.L. Polk and Co of California

1500 67TH ST

Year	Uses	Source
1928	Bartl Albin H 0 Masdaline knitter H	R.L. Polk and Co of California

1523 67TH ST

Year	Uses	Source
1928	P Geo E Lillian M Leader Market H	R.L. Polk and Co of California

1537 67TH ST

Year	Uses	Source
1928	El Jack electn R	R.L. Polk and Co of California

FINDINGS

ASHBY

735 ASHBY

Year	Uses	Source
1950	UNITED STATES GOVERNMENT(CONTD) INTERNAL REVENUE SERVICE COLLECTOR OF INTER	The Pacific Telephone & Telegraph Co.

ASHBY AVE

402 ASHBY AVE

Year	Uses	Source
1991	Cornell Oscar	PACIFIC BELL WHITE PAGES

406 ASHBY AVE

Year	Uses	Source
1986	Dubravac John E	PACIFIC BELL WHITE PAGES
	Duaro Alec	PACIFIC BELL WHITE PAGES
	Dubrsff D	PACIFIC BELL WHITE PAGES
	Daubroff	PACIFIC BELL WHITE PAGES

430 ASHBY AVE

Year	Uses	Source
1975	BROWNE ROLAND	Pacific Telephone

503 ASHBY AVE

Year	Uses	Source
1928	Bullock Alex Arder lab H	R.L. Polk and Co of California

601 ASHBY AVE

Year	Uses	Source
1986	Innermorphics Corp	PACIFIC BELL WHITE PAGES
	Inner City Broadcasting Corp Of Berkeley	PACIFIC BELL WHITE PAGES
	Business Office	PACIFIC BELL WHITE PAGES
	Music Info & Request Line	PACIFIC BELL WHITE PAGES
	K R E Request Contest Line	PACIFIC BELL WHITE PAGES
	KR E Talk Show Line	PACIFIC BELL WHITE PAGES
	KR E AM 1400	PACIFIC BELL WHITE PAGES
	Business Office	PACIFIC BELL WHITE PAGES
	Music Info & Request Line	PACIFIC BELL WHITE PAGES
	K R E REQUEST CONTEST LINE	PACIFIC BELL WHITE PAGES
	KRENZ OSCAR INC	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1986	K R E AM	PACIFIC BELL WHITE PAGES
1980	Inner City Broadcasting Corp Of Berkeley	Pacific Telephone
	Business Office	Pacific Telephone
	Business Office	Pacific Telephone
1975	K R E KREATIVE RADIO AM-FM BRDCSTNG STN	Pacific Telephone
1970	K P A T SNOW PHONE BERKELEY	Pacific Telephone Directory
	K P A T RADIO STN AM FM BERKELEY	Pacific Telephone Directory
1962	K R E Broadcasting Stn	Pacific Telephone
	Office	Pacific Telephone
	Royal Recording Co	Pacific Telephone
1955	K R E BROADCASTING STATION BERKELEY	The Pacific Telephone & Telegraph Co.
1950	ROYAL RECORDING CO	The Pacific Telephone & Telegraph Co.
	K P F A BROADCASTING STATION	The Pacific Telephone & Telegraph Co.
1945	K R E BROADCASTING STATION BERKELEY	The Pacific Telephone & Telegraph Co.
1943	KRE Broadcasting Station Arth Westlund mgr	R. L. Polk & Co.
1938	STANDARD SOUND EQUIPMENT CO	Pacific Telephone
	K R E	Pacific Telephone

619 ASHBY AVE

Year	Uses	Source
1986	Lim Bong Ran	PACIFIC BELL WHITE PAGES
	Lim Bock C	PACIFIC BELL WHITE PAGES
	Lin Allen	PACIFIC BELL WHITE PAGES
	Lim B B	PACIFIC BELL WHITE PAGES

735 ASHBY AVE

Year	Uses	Source
2008	WEATHERFORD BMW	Cole Information Services
1996	WEATHERFORD BM W	PACIFIC BELL DIRECTORY
	WEATHERFORD MITSUBISHI	PACIFIC BELL DIRECTORY
1992	WEATHERFORD BMW	PACIFIC BELL DIRECTORY
1991	W E ATHE RFORD BMW	PACIFIC BELL WHITE PAGES
1986	i Barker Associates Inc	PACIFIC BELL WHITE PAGES
	BERKELEY BODY SHOP	PACIFIC BELL WHITE PAGES
	SOUTHWICK GROUP	PACIFIC BELL WHITE PAGES
	TOYOTA BERKELEY	PACIFIC BELL WHITE PAGES

Year	Uses	Source
1986	BERKELEY NISSAN DATSUN	PACIFIC BELL WHITE PAGES
1980	BARKER MACHINERY SALES INC	Pacific Telephone
	Keim Welding	Pacific Telephone
1975	AIRCO INC	Pacific Telephone
1970	BECHTEL CORP BERKELEY	Pacific Telephone Directory
	AIRCO VACUUM METALS DIVISION OF AIR REDUCTION INC BERKELEY	Pacific Telephone Directory
1962	Ateco Forge Divison of Amer Tractor Equipment Corp	Pacific Telephone
1955	SHIPS & POWER EQUIPMENT CORP BERKELEY	The Pacific Telephone & Telegraph Co.
1945	AMER FORGE CO BERKELEY	The Pacific Telephone & Telegraph Co.

ASHBY LN

601 ASHBY LN

Year	Uses	Source
1955	ROYAL RECORDING CO BERKELEY	The Pacific Telephone & Telegraph Co.
	K R E BROADCASTING STATION BERKELEY	The Pacific Telephone & Telegraph Co.
1945	ROYAL RECORDING CO BERKELEY	The Pacific Telephone & Telegraph Co.
	K R E BROADCASTING STATION BERKELEY	The Pacific Telephone & Telegraph Co.

ASHBY ST

735 ASHBY ST

Year	Uses	Source
2000	WEATHERFORD BMW	Pacific Bell

FOLGER AVE

708 FOLGER AVE

Year	Uses	Source
1962	Rods Inc	Pacific Telephone
	Reliance Sheet & Strip Co	Pacific Telephone
1955	RELIANCE SHEET & STRIP CO BERKELEY	The Pacific Telephone & Telegraph Co.
	RODS INC BERKELEY	The Pacific Telephone & Telegraph Co.

Year	Uses	Source
1950	RODS INC	The Pacific Telephone & Telegraph Co.

720 FOLGER AVE

Year	Uses	Source
1991	Grignard Co	PACIFIC BELL WHITE PAGES

721 FOLGER AVE

Year	Uses	Source
1933	ANDRE HENRY LAB R BERKELEY	R. L. Polk & Co.
	ANDRE JOS R BERKELEY	R. L. Polk & Co.
	ANDRE JOS F (ANNIE) TANNER H BERKELEY	R. L. Polk & Co.
	ANDRE ALBT (ELVIRA) R BERKELEY	R. L. Polk & Co.
1928	Alcatraz Jos P ir R	R.L. Polk and Co of California
	Alcatraz John L H	R.L. Polk and Co of California
1925	AUDRE J R	R. L. Polk & Co. of California
	HENDRICKSON MRS L R	R. L. Polk & Co. of California
1920	ANDRE J R	R. L. Polk & Co. of California
	AUDRE J R	R. L. Polk & Co. of California

722 FOLGER AVE

Year	Uses	Source
2008	BERKELEY ARCHITECTURAL SALVAGE	Cole Information Services
1996	BERKELEY ARCHITECTURAL SALVAGE	PACIFIC BELL DIRECTORY
1991	Bryans Lift Service	PACIFIC BELL WHITE PAGES
	Bryans M	PACIFIC BELL WHITE PAGES
	Bryant A	PACIFIC BELL WHITE PAGES
	Bryant A L	PACIFIC BELL WHITE PAGES
	Bryant A & M	PACIFIC BELL WHITE PAGES
	Roberton & Schwartz Sales Co Inc	PACIFIC BELL WHITE PAGES
1986	Roberton & Schwartz Sales Co Inc	PACIFIC BELL WHITE PAGES
	ROBERTON & SCHWARTZ SALES CO INC	PACIFIC BELL WHITE PAGES
1982	RELIANCE SHEET & STRIP CO BERKELEY	Pacific Telephone
1980	RELIANCE SHEET & STRIP CO	Pacific Telephone
	Fox Industries	Pacific Telephone
1975	FOX INDUSTRIES	Pacific Telephone
1970	RELIANCE SHEET & STRIP CO BERKELEY	Pacific Telephone Directory
	FOX INDUSTRIES BERKELEY	Pacific Telephone Directory

FINDINGS

Year	Uses	Source
1950	BERTOLANI ALBERT V R	The Pacific Telephone & Telegraph Co.
1945	WEAVER CLINTON E R BERKELEY	The Pacific Telephone & Telegraph Co.

725 FOLGER AVE

Year	Uses	Source
2013	MEYER CREST LIMITED	Cole Information Services
	CERTIFIED EXERCISE PROFESSIONALS	Cole Information Services
2008	MEYER CREST LTD	Cole Information Services
	DIAMOND HEIGHTS LLC	Cole Information Services
2006	CERTIFIED	Haines Company, Inc.
	EXERCISE	Haines Company, Inc.
	PRFSSNLS	Haines Company, Inc.
	MEYERCRest	Haines Company, Inc.
	LIMITED	Haines Company, Inc.
2000	SENTERPRISE INC	Pacific Bell
	SENTERPRISE INC	Pacific Bell
1996	THORN AUTOMATED SYSTEMS INC	PACIFIC BELL DIRECTORY
1992	HENRY LLOYD B SR CONSULTING	PACIFIC BELL DIRECTORY
	NOEL ASSOCIATES	PACIFIC BELL DIRECTORY
	AGENCY RENT-A-CAR	PACIFIC BELL DIRECTORY
1991	N OE L AS S OCIATE S	PACIFIC BELL WHITE PAGES
1933	RAMOS ANTONE M (MARY) LAB H BERKELEY	R. L. Polk & Co.
	DENIZ JOHN LAB R BERKELEY	R. L. Polk & Co.
1928	Deniz John Angelina lab H	R.L. Polk and Co of California

733 FOLGER AVE

Year	Uses	Source
1950	CLAY NANIE W MRS R	The Pacific Telephone & Telegraph Co.
1928	45th Geo K Mary H	R.L. Polk and Co of California
1925	MEYER G K R	R. L. Polk & Co. of California

739 FOLGER AVE

Year	Uses	Source
1955	PONSANO TRANSPORTATION BERKELEY	The Pacific Telephone & Telegraph Co.

FINDINGS

741 FOLGER AVE

Year	Uses	Source
2013	LUXURY LANDSCAPE	Cole Information Services
	RGS CONSTRUCTION	Cole Information Services
	GRING PEST CONTROL SERVICES	Cole Information Services
2008	GRING PEST CONTROL	Cole Information Services
	ROBERT G SCHWIERS INC	Cole Information Services
2006	CONTROL SERVICE	Haines Company, Inc.
	GRING PEST	Haines Company, Inc.
2000	GRING PEST CONTROL SERVICE	Pacific Bell
1996	GRING PEST CONTROL SERVICE	PACIFIC BELL DIRECTORY
1992	GRING PEST CONTROL SERVICE	PACIFIC BELL DIRECTORY
1991	GRIN G PE S T CON TROL S E RVICE	PACIFIC BELL WHITE PAGES
	R G S Construction	PACIFIC BELL WHITE PAGES
1986	GRING PEST CONTROL SERVICE	PACIFIC BELL WHITE PAGES
	R G S CONSTRUCTION	PACIFIC BELL WHITE PAGES
	R G S Construction	PACIFIC BELL WHITE PAGES
	From Walnut Creek Telephones Call	PACIFIC BELL WHITE PAGES
	Gring Pest Control Service Inc	PACIFIC BELL WHITE PAGES
	From Vallejo Telephones Call	PACIFIC BELL WHITE PAGES
1980	GRING PEST CONTROL SERVICE	Pacific Telephone
1975	GRING PEST CONTROL SERVICE	Pacific Telephone
1970	GRING PEST CONTROL SERVICE BERKELEY	Pacific Telephone Directory
1965	GRINLG PEST CONTROL SERV	R. L. Polk & Co.
1962	Gring Pest Control Service	Pacific Telephone
	GRING TERMITE CONTROL	Pacific Telephone
1955	GRING GARDEN SPRAYING BERKELEY	The Pacific Telephone & Telegraph Co.
	GRING PEST CONTROL SERVICE BERKELEY	The Pacific Telephone & Telegraph Co.
	HEATON S PEST CONTROL SERVICE BERKELEY	The Pacific Telephone & Telegraph Co.
1950	GRING PEST CONTROL SERVICE	The Pacific Telephone & Telegraph Co.
	HEATON S PEST CONTROL SERVICE	The Pacific Telephone & Telegraph Co.

742 FOLGER AVE

Year	Uses	Source
1970	GOULTER FRANCIS FRAN S SERVICE BERKELEY	Pacific Telephone Directory

Year	Uses	Source
1970	FRAN S SERVICE BERKELEY	Pacific Telephone Directory
1962	Fruitvale Drayage	Pacific Telephone
1955	ARROW TRUCKING CO BERKELEY	The Pacific Telephone & Telegraph Co.
	OERTLY BROS TRUCKING CO BERKELEY	The Pacific Telephone & Telegraph Co.
1950	DE BOLD OTTO FUEL OIL TRANSPORTATION	The Pacific Telephone & Telegraph Co.

744 FOLGER AVE

Year	Uses	Source
2006	HOWLETTMACHINE	Haines Company, Inc.
	WORKS	Haines Company, Inc.
	HOWLETT MACHINE	Haines Company, Inc.
	WORKS	Haines Company, Inc.
2000	FOX HOWLETT INDUSTRIES	Pacific Bell
1996	FOX-HOWLETT INDUSTRIES	PACIFIC BELL DIRECTORY
1992	FOX-HOWLETT INDUSTRIES	PACIFIC BELL DIRECTORY
1991	Fox HowlettIndustries	PACIFIC BELL WHITE PAGES
1970	POWER BOILER SALES INC BERKELEY	Pacific Telephone Directory
1955	GLUED LAMINATED PRODUCTS CO BERKELEY	The Pacific Telephone & Telegraph Co.
	BAYSHORE CONSTRUCTION CO BERKELEY	The Pacific Telephone & Telegraph Co.

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Year	Uses	Source
2006	HOWLETTMACHINE	Haines Company, Inc.
	WORKS	Haines Company, Inc.
2000	HOWLETT MACHINE WORKS	Pacific Bell
1996	HOWLETT MACHINE WORKS	PACIFIC BELL DIRECTORY
1992	HOWLETT MACHINE WORKS	PACIFIC BELL DIRECTORY
1991	Howlett Sally	PACIFIC BELL WHITE PAGES
	HOW LE TT MACHIN E W ORKS	PACIFIC BELL WHITE PAGES
1986	HOWLETT MACHINE WORKS	PACIFIC BELL WHITE PAGES
	HOW LE TT MACHIN E W ORKS	PACIFIC BELL WHITE PAGES
1980	HOWLETT MACHINE WORKS	Pacific Telephone
1975	HOWLETT MACHINE WORKS	Pacific Telephone
1970	HOWLETT MACHINE WORKS BERKELEY	Pacific Telephone Directory
1962	Howlett Machine Works	Pacific Telephone

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Year	Uses	Source
1955	HOWLETT MACHINE WORKS BERKELEY	The Pacific Telephone & Telegraph Co.

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Year	Uses	Source
1970	COLEMAN KENNETH L BERKELEY	Pacific Telephone Directory
1962	Dollar Jas H	Pacific Telephone
1955	TAYLOR GEO BERKELEY	The Pacific Telephone & Telegraph Co.
1950	AMARAL PAULINE R	The Pacific Telephone & Telegraph Co.
1945	MORRIS MARGARET R BERKELEY	The Pacific Telephone & Telegraph Co.
	MORRIS PEDRO R BERKELEY	The Pacific Telephone & Telegraph Co.
1933	SALVADOR JOHN HLPR BKLY GARBAGE DEPT R BERKELEY	R. L. Polk & Co.
	SILVA FRANK H BERKELEY	R. L. Polk & Co.
1928	Jacinto Jose Louisa lab H	R.L. Polk and Co of California

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Year	Uses	Source
2013	TIRE & ALIGNMENT CENTER	Cole Information Services
	MERCEDES AT MORAN MOTOSPORT	Cole Information Services
2008	MORAN MOTORSPORT	Cole Information Services
	SOUTHWICK INC	Cole Information Services
	TIRE & ALIGNMENT CENTER	Cole Information Services
2006	AUTOMALLTIREA	Haines Company, Inc.
	ALIGN CENTER	Haines Company, Inc.
1992	TOYOTA BERKELEY	PACIFIC BELL DIRECTORY
1991	Tire Dept	PACIFIC BELL WHITE PAGES
	Tire Dept	PACIFIC BELL WHITE PAGES
1986	Truck & Machine Service	PACIFIC BELL WHITE PAGES
	T & M Parts Inc	PACIFIC BELL WHITE PAGES
	T & M PARTS INC	PACIFIC BELL WHITE PAGES
	TRUCK & MACHINE SERVICE	PACIFIC BELL WHITE PAGES
1980	Truck & Machine Service	Pacific Telephone
	T & M Parts Inc	Pacific Telephone
1970	TRUCK & MACHINE SERVICE BERKELEY	Pacific Telephone Directory
1955	ROGERS ALFRED BERKELEY	The Pacific Telephone & Telegraph Co.

Year	Uses	Source
1950	ROGERS ALFRED R	The Pacific Telephone & Telegraph Co.
1945	ROGERS ALFRED R BERKELEY	The Pacific Telephone & Telegraph Co.
1943	ROGERS Alf h	R. L. Polk & Co.
1938	TASSO SECONDO D R	Pacific Telephone
1933	AMBROSE MARIA P H BERKELEY	R. L. Polk & Co.
	TASSO ENRICO (MARY) GDNR H BERKELEY	R. L. Polk & Co.
	TASSO SECONDO MECH R BERKELEY	R. L. Polk & Co.
1928	n Blnnieho Mtary adna H	R.L. Polk and Co of California
1925	TASSO MARY R	R. L. Polk & Co. of California

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Year	Uses	Source
2013	UNITECH	Cole Information Services
2008	UNITECH FOREIGN AUTO SERVICE	Cole Information Services
2006	UNITECH	Haines Company, Inc.
2000	UNITECH	Pacific Bell
1996	UNITECH	PACIFIC BELL DIRECTORY
1992	UNITECH	PACIFIC BELL DIRECTORY
1986	SCHEID INDUSTRIAL SUPPLY COMPANY	PACIFIC BELL WHITE PAGES
	S CHE ID IN DUS TRIAL S UPPLY COMPAN Y	PACIFIC BELL WHITE PAGES
1980	SCHEID INDUSTRIAL SUPPLY COMPANY	Pacific Telephone
1970	SCHEID INDUSTRIAL SUPPLY COMPANY BERKELEY	Pacific Telephone Directory
1945	KRAUSCH GEORGE R BERKELEY	The Pacific Telephone & Telegraph Co.
1943	Ambrose Anton Mary h	R. L. Polk & Co.
1933	AMBROSE ANTONE (MARY) WITH GRAYSON-OWEN PKG CO H BERKELEY	R. L. Polk & Co.
1928	Monez Frank lab R	R.L. Polk and Co of California
	Monez A P lab H	R.L. Polk and Co of California

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Year	Uses	Source
1991	Stothers T	PACIFIC BELL WHITE PAGES
	Stothers R Mrs	PACIFIC BELL WHITE PAGES
1986	Stothers R Mrs	PACIFIC BELL WHITE PAGES
1980	Stothers R Mrs	Pacific Telephone

Year	Uses	Source
1970	STOTHERS ALBERT F JR MRS BERKELEY	Pacific Telephone Directory
1955	GEORGE LEROY BERKELEY	The Pacific Telephone & Telegraph Co.
1933	SILVA RALPH R BERKELEY	R. L. Polk & Co.
	SILVA FRED LNDYWKR R BERKELEY	R. L. Polk & Co.
	SILVA FERNANDO (JULIA) LNDYWKR R BERKELEY	R. L. Polk & Co.
1928	Va Jessla H	R.L. Polk and Co of California

SHELLMOUND ST

6601 SHELLMOUND ST

Year	Uses	Source
2013	EXPRESSION COLLEGE FOR DIGITAL ARTS	Cole Information Services
2008	EXPRESSION COLLEGE FOR DIGITAL ARTS	Cole Information Services
2006	EXPRess ION CTR	Haines Company, Inc.
	FOR New m EDIA	Haines Company, Inc.

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TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
6701, 6705, & 6707 Shellmound Street	2002, 2000, 1996, 1993, 1984, 1982, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
1447 67TH AVSW EETWOOD	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1450 67TH EMVL	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1450 67TH ST	2013, 2008, 2006, 2002, 2000, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1450 67TH ST	2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1459 67TH AVLO CKHAVN	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1459 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1460 67TH	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1460 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1926, 1925, 1920
1462 67TH EMVL	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1462 67TH ST	2013, 2008, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1926
1462 67TH ST	2013, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1464 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1464 67TH ST	2013, 2008, 2006, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
1465 67TH AVLO CKHAVN	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1471 67TH ST	2013, 2008, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1472 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1475 67TH	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1475 67TH EMVL	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1475 67TH ST	2013, 2008, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1475 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1476 67TH	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1476 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1477 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1478 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1482 67TH EMVL	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1482 67TH ST	2013, 2008, 2002, 2000, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1482 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1483 67TH EMVL	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1483 67TH ST	2013, 2008, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
1483 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1484 67TH ST	2013, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1484 67TH ST	2013, 2008, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
1487 67TH ST	2013, 2008, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1487 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1488 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1489 67TH EMVL	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1489 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 67TH ST	2013, 2008, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1492 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1493 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1494 67TH EMVL	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1494 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1494 67TH ST	2013, 2008, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1932, 1926, 1925, 1920
1496 67TH	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1496 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1498 67TH	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1499 67TH EMVL	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1499 67TH EW	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1499 67TH ST	2013, 2008, 2002, 2000, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1932, 1926, 1925, 1920
1500 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1523 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
1537 67TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1690 65TH ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
402 ASHBY AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
406 ASHBY AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
430 ASHBY AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
503 ASHBY AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
601 ASHBY AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1933, 1932, 1928, 1926, 1925, 1920
601 ASHBY LN	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
619 ASHBY AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6501 BAY ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6601 BAY ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6601 SHELLMOUND ST	2013, 2008, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6601 SHELLMOUND ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6603 BAY ST	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
708 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
720 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
721 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926
722 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1993, 1992, 1984, 1979, 1976, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
722 FOLGER AVE	2013, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
725 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
725 FOLGER AVE	2013, 2008, 2002, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
733 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
735 ASHBY	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
735 ASHBY AVE	2013, 2008, 2006, 2002, 2000, 1993, 1984, 1982, 1979, 1976, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
735 ASHBY AVE	2013, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
735 ASHBY ST	2013, 2008, 2006, 2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
739 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
741 FOLGER AVE	2013, 2008, 2002, 1993, 1984, 1982, 1979, 1976, 1973, 1967, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
741 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
742 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
744 FOLGER AVE	2013, 2008, 2002, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
746 FOLGER AVE	2013, 2008, 2002, 1993, 1984, 1982, 1979, 1976, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
750 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1943, 1940, 1938, 1932, 1926, 1925, 1920
751 FOLGER AVE	2013, 2008, 2002, 2000, 1996, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1926, 1920
751 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
753 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
753 FOLGER AVE	2013, 2008, 2002, 1993, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1926, 1925, 1920
755 FOLGER AVE	2013, 2008, 2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920

APPENDIX F

PREVIOUS ENVIRONMENTAL DOCUMENTS (PROVIDED ON CD-ROM)

Table F-1
Prior Environmental Documents
6701, 6705, and 6707 Shellmound Street
Emeryville, California

Prepared by	Title/Subject	Date
Alameda County Department of Environmental Health	Notice of Violation Letter to James McClay, Mike Roberts Color Productions	2-Mar-89
Alameda County Department of Environmental Health	Letter to MRCP Realty and Nady Systems, Inc. Regarding Deed Notice, Nady's Systems, Inc. (Former MRCP) – 6707 Bay Street, Emeryville, CA 94608	16-Dec-96
Bechtel	Site Inspection, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California	22-Oct-92
ENVIRON International Corporation	Summary of Environmental Findings, Nady Systems, Inc., 6701 Shellmound Street or 6707 Bay Street, Emeryville, California	29-May-13
ENVIRON International Corporation	Draft Phase I Environmental Site Assessment, Nady Systems, 6701-6707 Bay Street, Emeryville, California	3-Jul-13
ICF Technology Incorporated	Preliminary Assessment, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California	13-Sep-90
LW Environmental Services, Inc.	Status Report of Activities Related to the Removal and Disposal of Hazardous Waste from M.R.C.P. Property and Analytical Results of Soil & Water Samples Collected in the Northwest Area of the Property, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California	27-Jun-89
LW Environmental Services, Inc.	Environmental Site Assessment and Subsurface Evaluation – Mike Roberts Color Productions Property, 6707 Bay Street, Emeryville, California	10-Jul-89
LW Environmental Services, Inc.	Supplemental Environmental Site Assessment and Subsurface Evaluation – Mike Roberts Color Productions Property, 6707 Bay Street, Emeryville, California	25-Aug-89
LW Environmental Services, Inc.	Environmental Site Assessment – Phase II Subsurface Evaluation - Mike Roberts Color Productions Property, 6707 Bay Street, Emeryville, California	26-Sep-89
LW Environmental Services, Inc.	Final Report/Tank Removal, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California	3-Nov-89
McLaren	Phase I Review of Documents and Verification of Groundwater Flow Direction at 6070 Bay Street in Emeryville, California	21-Nov-89
PES Environmental, Inc.	Letter Report Summarizing Results of an Investigation of Site Conditions in the Vicinity of the Former USTs, Nady Systems, Inc. Site, 6707 Bay Street, Emeryville, California	9-Dec-91
PES Environmental, Inc.	Supplemental Subsurface Investigation Report, 6701, 6705, and 6707 Shellmound Street, Emeryville, California	13-Jan-14

Table F-1
Prior Environmental Documents
6701, 6705, and 6707 Shellmound Street
Emeryville, California

Prepared by	Title/Subject	Date
Pettit & Martin, Attorneys at Law	Recorded Deed Notice Pursuant to Work Plan and Revised Request for "No Further Action", Alternative Compliance Points Monitoring Program, 6707 Bay Street, Emeryville, California	1-Feb-95
SCS Engineers	Environmental Review and Assessment of the Michael Roberts Color Production Property located at 6707 Bay Street, Emeryville, California	19-Dec-89
SCS Engineers	Environmental Assessment, 6707 Bay Street, Emeryville, California	30-Jan-90
SCS Engineers	Interim Report One for Construction and Operation of the Remediation Systems, 6707 Bay Street, Emeryville, California	25-Feb-91
Subsurface Consultants, Inc.	Quarterly Groundwater Monitoring and Treatment System Decommissioning, 6707 Bay Street, Emeryville, California	14-Jun-93
Subsurface Consultants, Inc.	Quarterly Groundwater Monitoring, August 1993, 6707 Bay Street, Emeryville, California	15-Sep-93
Subsurface Consultants, Inc.	Quarterly Groundwater Monitoring, November 1993, 6707 Bay Street, Emeryville, California	8-Jan-94
Subsurface Consultants, Inc.	Quarterly Groundwater Monitoring, February 1994, 6707 Bay Street, Emeryville, California	5-Apr-94
Subsurface Consultants, Inc.	Supplemental MIBK Contamination Assessment, 6707 Bay Street, Emeryville, California	21-Sep-94
Subsurface Consultants, Inc.	Addendum No. 1, Work Plan and Revised Request for "No Further Action", Alternate Compliance Points Monitoring Program, 6707 Bay Street, MIBK Tank Area, Emeryville, California	17-Jan-95
Subsurface Consultants, Inc.	Groundwater Monitoring, February 1995 Event, 6707 Bay Street, Emeryville, California	1-Mar-95
Subsurface Consultants, Inc.	Groundwater Monitoring, November 1995 Event, 6707 Bay Street, Emeryville, California	15-Dec-95
Subsurface Consultants, Inc.	Groundwater Monitoring, May 1996 Event, Request For "No Further Action", 6707 Bay Street, Emeryville, California	21-Jun-96

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

December 16, 1996
SLIC # 414

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Mr. James J. McClay
MRCP Realty
6262 Hollis Street
Emeryville, California 94608

Mr. Charles Tsou
Nady Systems, Inc.
6701 Bay Street
Emeryville, California 94608

RE: Nady's Systems, Inc. (Former MRCP) - 6707 Bay Street, Emeryville, CA 94608

Dear Messrs. Mclay and Tsou:

This office is currently preparing a case closure summary for the above referenced site. The closure document will be submitted to the Regional Water Quality Control Board (RWQCB) for concurrence that further remediation and /or monitoring related to the former underground storage tanks removed from the site is not required. However, the recorded deed notice must be modified to include the following risk management measures:

1) **The shallow groundwater beneath the site shall not be used.** This statement should replace condition # 2 as recorded in the previous deed notice.

2) **Appropriate Health and Safety plans shall be prepared prior to and followed during any activities involving exposure to pollution in soil or groundwater.** This statement should replace condition #4.

3) **A health risk assessment shall be required if a change in land use, structural configuration or site activities are proposed such that more conservative scenarios should be evaluated**. This statement should replace condition # 5.

4) **Potential vertical conduits between the shallow and deeper aquifers shall not be created.** This statement should be added as condition # 6.

A copy of the recorded deed notice with the risk management measures listed above must be submitted to this office and the City of Emeryville Planning / Building Dept.

I will be submitting the case closure summary to RWQCB concurrently while modification to the deed notice is in progress. The closure letter will be issued by this office after receiving the case closure summary signed by the RWQCB and a copy of the recorded deed notice.

Please call me at (510) 567-6780 regarding any questions you may have concerning this letter or the subject site.

Sincerely,

Susan L. Hugo

Susan L. Hugo
Senior Hazardous Materials Specialist

c: Mee Ling Tung, Director, Environmental Health
Gordon Coleman, Acting Chief, Environmental Protection Division
Sum Arigala, San Francisco Bay RWQCB
William Rudolph, SCI, 3736 Mt. Diablo Blvd., Suite 200, Lafayette, CA 94549
Maureen Bennett, Graham & James, One Maritime Plaza, Suite 300
San Francisco, CA 94111
SH / files

ALAMEDA COUNTY
ALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Director

Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Telephone number: (415) 271-4320

MAR 8 1989

Certified Mailer # P 833 931 186

2 March, 1989

RECEIVED
MAR 13 1989
EHT - RPO

James McClay
Mike Roberts Color Production
6707 Bay Street
Emeryville, Ca. 94608

****NOTICE OF VIOLATION****

Dear Mr. McClay:

On the 24th of January, 1989, your facility at 6707 Bay Street in Emeryville was inspected by a member of our staff. The purpose of these inspections is to identify those industries within Alameda County which generate a hazardous waste stream, utilize hazardous materials in their processes and ascertain that these substances are managed properly to reduce the risk of exposure to workers, the general public and the environment. These inspections are conducted on an annual basis.

As a result of this inspection your operation is considered to be in violation of the following sections of the California Code of Regulations:

1) Section 66472 (a)(d) of the CCR, Title 22, which mandates that any generator of a hazardous waste must obtain an EPA Identification Number. It is unlawful to treat, store, dispose of, transport or offer for transportation a hazardous waste without having received an EPA identification Number. This number can be obtained by calling (916) 324-1781.

2) Section 66492 (a) of the CCR, Title 22, which requires that a copy of all hazardous waste manifests must be kept on site for a period of three years and made available for inspection by representatives of a local health officer as stipulated in Section 25185 (4) of the California Health and Safety Code.

Please give this matter your immediate attention. Sections 25189.5 25190 and 25191 of the California Health and Safety Code provide for civil and criminal penalties of up to $25,000.00 per day, per violation.

Included with this letter is an Alameda County Hazardous Materials Business Plan. Please complete the pertinent sections of this document and submit it to our office within thirty days.

The Alameda County Department of Environmental Health, Hazardous Materials Division is eager to see these issues resolved in an expedient and responsible manner. If you have any questions or require further clarification concerning the actions which need to be taken to address these matters, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

R.A. Shahid

Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:DB

enclosure: Alameda County Business Plan

cc: Gil Jensen, Alameda County District Attorney, Consumer and Environmental Protection Agency.
D. Krause, DOHS
Jim Eversole, Assistant Fire Marshall, Emeryville Fire Department

3) Section 66508 (b) of the CCR, Title 22, which forbids the on-site storage of a hazardous waste for greater than ninety days unless the facility is a licensed hazardous waste treatment, storage and disposal facility. Section 66508 (a) (2) and (3) of the CCR, Title 22, stipulate that hazardous waste containers be labeled with the words HAZARDOUS WASTE, identify the material being contained and specify the date on which waste material was first entered into the container.

4) Section 67245 (a) and (b) of the CCR, Title 22, which requires that hazardous waste storage areas be equipped with a secondary containment system to prevent the runoff of material should a container rupture or spill. Such a containment system should include an impervious surface to prevent the leaching of spilled material into the underlying soil and be of sufficient capacity to contain the precipitation from at least a 24-hour, 25-year storm plus ten percent of the aggregate volume of all containers, or the volume of the largest container, whichever is greater.

The staining of the pavement in the chemical storage area at the rear of your facility is evidence of spillage. This may constitute a violation of Section 25189.5 of the California Health and Safety Code which forbids the on-site disposal of a hazardous waste at other than a licensed hazardous waste treatment, storage and disposal facility. Such an action could result in the levying of a substantial fine as stipulated in Section 25189.5 (d) of the Code.

You are requested to submit to our office, a Plan of Correction for 6707 Bay Street on or before the 2nd of April, 1989. This Plan should address each violation specified in this letter and describe what consequent actions you propose to take. Following a review of the Plan, this office will inform you of any changes or additions required for approval.

e -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Division Inspection Form

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Site ID# 414 Site Name Tube Roberts Auto Products Today's Date 1/22/97

Site Address 6707 Bay Street EPA ID# _____

City Emeryville Zip 94608 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
Hazardous Waste generated per month? _____

Inspection Categories:
- V I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- V II. Business Plans. Acute Hazardous Materials
- ___ III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

A GENERATOR (Title 22)

	1. Waste ID	66471
V	2. EPA ID	66472
V	3. ≤ 90 days	66508
	4. Label dates	66508
	5. Biennial	66493
V	6. Records	66492
	7. Correct	66494
	8. Copy sent	66492
	9. Exception	66464
	10. Copies filed	66492
	11. Treatment	66371
	12. Onsite Disp. (H.S.&C.)	25189.5
	13. Ex Haz. Waste	66570
	14. Contingencies	67121
	15. Aisle Space	67124
	16. Local Authority	67126
	17. Maintenance	67120
	18. Training	67105
	19. Prepared	67141
	20. Name List	67141
	21. Copies	67141
	22. Emg. Coord. Trng.	67144
	23. Condition	67241
	24. Compatibility	67242
	25. Maintenance	67243
	26. Inspection	67244
	27. Buffer Zone	67246
	28. Tank Inspection	67259
V	29. Containment	67245
	30. Safe Storage	67261
	31. Freeboard	67257

B TRANSPORTER (Title 22)

	32. Applic./Insurance	66428
	33. Comp. Cert./CHP Insp.	66465
	34. Container	66465
	35. Vehicles	66465
	36. EPA ID #s	66531
	37. Correct	66541
	38. HW Delivery	66543
	39. Records	66544
	40. Name/ Cover	66545
	41. Recyclables	66300

Comments:

waste Oil 220 gal/yr.
Isopropyl Alcohol 110 gal
all coating / varnish 43 55 gall bar.
37 drums of waste solvent currently
on premises

chemical storage area requires a secondary containment system. letter to be sent

the Haz waste cannot be stored for greater than 90 days - ok

an EPA identification number can be obtained by calling (916) 324-1781

evidence of spillage in chem storage area

Records of Haz waste pickups must be kept on the premises for 3 years

Contact: Jorge Hernandez

Title: _____ Inspector: _____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

92 NOV 16 PM 1:28

NOV 13 1992

Brian Oliver
Hazardous Material Specialist
Division of Hazardous Materials
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 4621

H-8-1

Dear Sir/Madam:

Enclosed please find the Site Assessment report prepared for EPA concerning the CERCLA evaluation for the site.

EPA encourages your written comments on this report. Your comments should be sent to Carolyn Douglas, Site Assessment Manager, EPA mail stop H-8-1. If you have any question please contact her at (415) 744-2343.

Sincerely,

Carolyn J. Douglas for

Thomas A. Mix, Chief
Site Evaluation Section

Enclosure

Bechtel

50 Beale Street
San Francisco, CA 94105-1895
Mailing address: P.O. Box 193965
San Francisco, CA 94119-3965

Site Inspection

Site: Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA 94608

Site EPA ID Number: CAD 009133190

Work Assignment Number: 60-15-9J00, ARCSWEST Program

Submitted to: Rachel Loftin
Work Assignment Manager
EPA Region IX

Date: October 22, 1992

Prepared by: Kathryn A. Curtis KAC

Review and Concurrence: Susan Naughton SN

1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA), Region IX, under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA) has asked Bechtel Environmental, Inc., to conduct a Site Inspection (SI) of Mike Roberts Color Productions (Mike Roberts) in Emeryville, Alameda County, California.

The Mike Roberts site was identified as a potential hazardous waste site and entered into the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) on February 13, 1989 (CAD 009133190) (1). The site was entered into CERCLIS because of a telephone complaint to EPA from a concerned citizen indicating that barrels containing acids, inks, and solvents were stored behind the warehouse (2).

A Preliminary Assessment (PA) of the Mike Roberts site was conducted for the EPA by ICF Technology Incorporated, a subcontractor for Ecology and Environment, Incorporated, on September 13, 1990 (3). The purpose of the PA was to review existing information on the site and its environs to assess the threat(s), if any, posed to public health, welfare, or the environment, and to determine if further action under CERCLA/SARA is warranted.

After reviewing the PA, the EPA decided that further investigation of the Mike Roberts site would be necessary to more completely evaluate the site using EPA's Hazard Ranking System (HRS) criteria. The HRS assesses the relative threat associated with actual or potential releases of hazardous substances at the site. The HRS has been adopted by the EPA to help set priorities for further evaluation and eventual remedial action at hazardous waste sites. The HRS is the primary method of determining a site's eligibility for placement on the National Priorities List (NPL). The NPL identifies sites at which EPA may conduct remedial response actions. This report summarizes the results of the SI investigation of the Mike Roberts site.

1.1 Apparent Problem

The apparent problems with the site are as follows:

- Methyl isobutyl ketone (MIBK), lead, copper, zinc, benzene, and toluene were detected in groundwater at the site.
- Subsurface soil sampling indicates the presence of zinc, lead, copper, benzene, toluene, ethylbenzene, xylenes, and MIBK.

2.0 SITE DESCRIPTION

2.1 Location

The Mike Roberts site is located at 6707 Bay Street, Emeryville, Alameda County, California. The geographic coordinates of the site are 37° 50' 52.86" N latitude and 122° 17' 39.91" W longitude (Township 1 South, Range 4 West, Mount Diablo Baseline and Meridian, Oakland West, California, 7.5-minute quadrangle) (4). The location of the site is shown in Figure 2-1.

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Figure 2-1 Site Location

Printed on 50% recycled paper.

2.2 Site Description

The Mike Roberts site is located approximately 0.25 mile east of the San Francisco Bay, and is bounded on the west and north by the Ashby Avenue and Bay Street offramps from Interstate 80, on the east by Bay Street, and on the south by a vacant office, warehouse building, and a self-storage facility (5). The site consists of a 4.6-acre lot in a primarily commercial and industrial area; however, a large residential complex is located less than 0.25 mile to the south of the site (5). On the northeast side of Bay Street, a railroad easement runs parallel to the property boundary. Colter Steel, Inc. is located on the northeast side of Bay Street. The Berkeley Aquatic Park is north of the site, and the San Francisco Bay is to the west, at respective distances of approximately 0.25 mile.

The Mike Roberts site consists of two buildings connected by an enclosed corridor: an approximately 55,000-square-foot warehouse used for distribution and packaging, and an approximately 15,000-square-foot, two-story office building. The remainder of the site is paved with asphalt and serves as a parking area for employees. The property boundary on the north and west sides is fenced. The entryway between the buildings and the property boundaries are landscaped. A sidewalk is being constructed along the Bay Street property line (5). The site layout is shown in Figure 2-2.

2.3 Operational History

Until 1947, the Mike Roberts site was a part of San Francisco Bay, which was gradually filled in with various landfill materials through the 1950s. From the 1940s until the late 1950s, a municipal waste dump existed on the land parcel directly south of Mike Roberts. Refuse such as glass, concrete, wood, nails, and miscellaneous organics that were found in auger tailings from monitoring wells and borings installed on site indicate that the dump may have extended onto the Mike Roberts property at one time (5,6).

The first known operator at the Mike Roberts site was Dymo Industries, Inc. (Dymo), a label tape and label tape puncher manufacturer owned by Esselte Pendaflex Corporation. Dymo occupied the Mike Roberts site from approximately 1963 until 1979, when the property was sold to Mike Roberts Color Productions and its affiliated partnership, MRCP Realty Company (5,7, 8).

Mike Roberts manufactured and printed colored postcards and later expanded into color printing, lithography, and off-set printing operations (5). As a part of Mike Roberts operations, the color lithography and printing processes produced waste printing ink, solvent cleaning compounds, volatile and semivolatile hydrocarbons, and color pigments (9). These wastes were apparently stored in 55-gallon drums behind the warehouse. The area was asphalted and fenced, but lacked a secondary containment system. In addition, the asphalt was stained, indicating that the waste drums had probably leaked. Apparently, surface runoff contaminated by the leaking drums flowed out of the drum storage area and into a ditch along the west boundary of the property.

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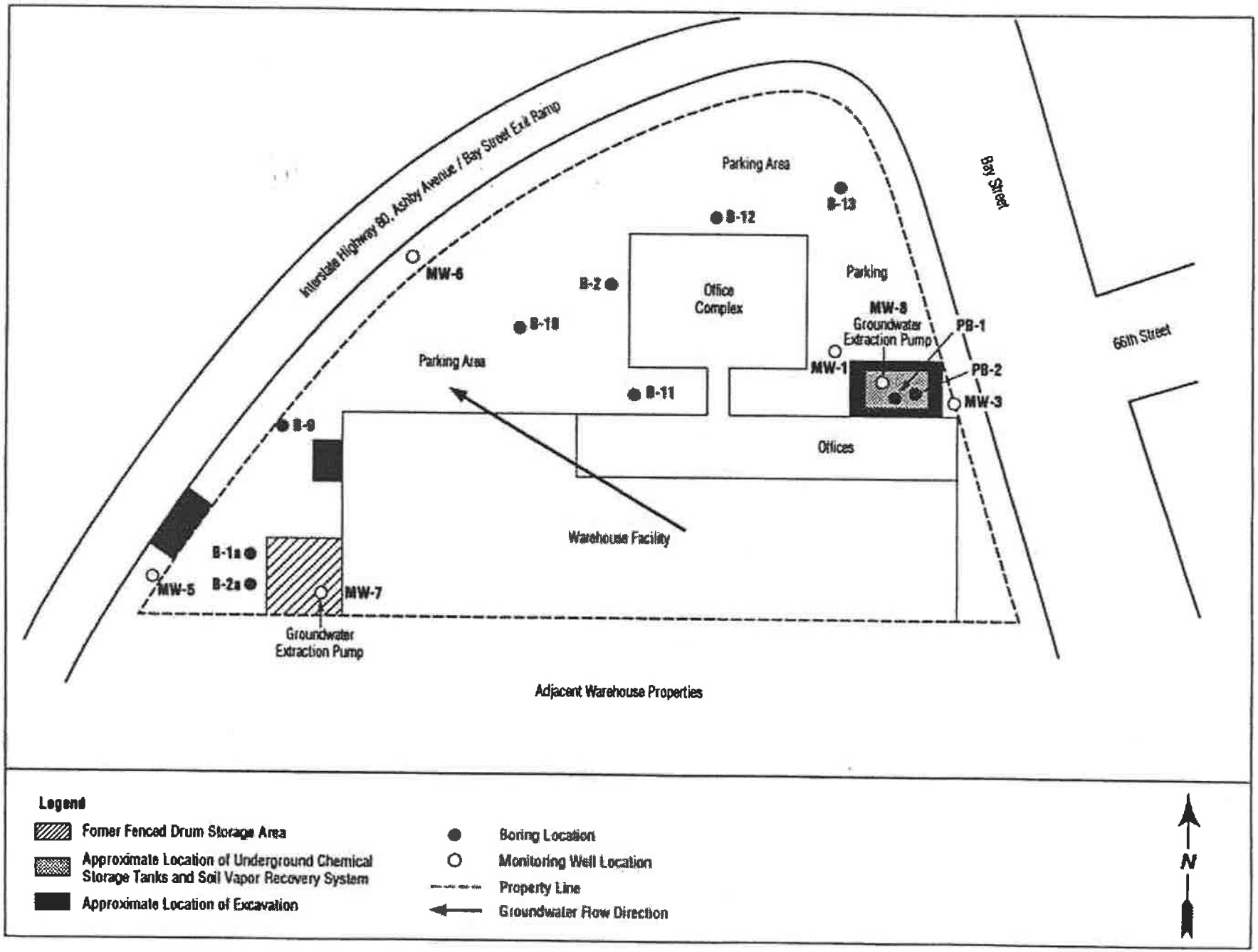


Figure 2-2 Facility Layout

Printed on 50% recycled paper.

In March 1989, LW Environmental Services, Inc. sampled eighty-nine 55-gallon drums of hazardous waste stored at the west end of the printing facility at the Mike Roberts site. Upon completion of the waste characterization, LW Environmental, Inc. removed 2,700 gallons of waste materials from the drums. The waste materials and drums were transported to Gibson Oil and Refining for disposal in June 1989 (9). Although the waste drums were removed and a localized area of contaminated soils along the west side of the property was excavated in 1989, contaminated soils may still be present on site (5,6,9). Mike Roberts operated at the site until the company declared bankruptcy and subsequently went out of business in mid-1989 (10).

In August 1989, three underground chemical storage tanks were discovered near the Bay Street side of the property (11). Apparently, the underground storage tanks were installed by Dymo to store virgin methyl isobutyl ketone (MIBK, or 4-methyl-2-pentanone) and possibly, methyl ethyl ketone (MEK), products used in label tape and label puncher manufacturing processes (7). The three tanks had capacities of 2,000 gallons, 1,650 gallons, and 3,200 gallons (11). All three tanks were removed in October 1989 and at least one showed evidence of leakage (12,13). The tank removals were overseen by Alameda County Health Agency, Department of Environmental Health, Division of Hazardous Materials (Alameda County) (13).

Because of the presence of volatiles and MIBK in soil and groundwater on site, two remediation systems were installed by SCS Engineers on the Mike Roberts property. The soil vapor extraction and treatment system consisted of four wells placed in the former tank pit area, and a carbon treating unit (14). The soil vapor extraction system was operated from July 1990 to February 1991, and was reported by SCS Engineers to have reduced the total volatile organic vapor concentrations in soil to less than 10 parts per million (ppm) (8). The groundwater extraction and treatment system was installed to remove and treat contaminated groundwater from MW-7 and MW-8. The system was operated from October 1990 to March 1991, and it is estimated that approximately 3 pounds of MIBK were removed during operation of the groundwater remediation system (8).

The property was sold to John Nady of Nady Systems, Inc., the current facility owner and operator, in March 1990 (15). Nady Systems, Inc is a distributor and packager of communications systems, such as wireless microphones and other specialty communications systems. Nady Systems, Inc. leases approximately 17,000 square feet of the existing warehouse to Richards and Sterling, a ceramic tile distributor. No hazardous waste is currently generated, stored, treated, or disposed of on site. The only hazardous substance used during the production process is solder (5).

2.4 Regulatory Involvement

2.4.1 U.S. Environmental Protection Agency (EPA). The site was entered into CERCLIS on February 13, 1989, as a result of an anonymous telephone call to the EPA (1). In September 1990, a PA of the Mike Roberts site was conducted for the EPA by ICF Technology Incorporated (3). Mike Roberts is listed in the March 24, 1992 Resource Conservation and Recovery Act (RCRA) Notifiers List as a conditional generator (16).

Printed on 50% recycled paper.

2.4.2 Alameda County Health Care Services Agency, Department of Environmental Protection, Hazardous Materials Division. Alameda County Health Care Services Agency is the lead agency for investigative and remedial work occurring at the Mike Roberts site. In January 1989, Alameda County conducted a site visit and issued Mike Roberts a Notice of Violation under four sections of the California Code of Regulations (CCR), Title 22. The violations included citations for lack of an EPA identification number, no copies of hazardous waste manifests on site, onsite storage of hazardous waste for more than 90 days, and hazardous waste storage areas that lacked secondary containment (17).

In ~~June 1989~~ Oct. 1989, Alameda County supervised the removal of the three underground storage tanks from the northeast corner of the warehouse. The Underground Tank Closure Plan was approved by Alameda County in August 1989 (18).

On January 30, 1991, Alameda County submitted a letter to the current facility owner, Nady Systems, Inc., indicating that Alameda County had concerns about the adequacy of the environmental investigative and remedial actions taken at the Mike Roberts site. The outstanding issues specified by this letter are as follows:

- Approval for the disposal of the pumped and treated groundwater.
- A number of soil borings taken at various locations throughout the property detected soil contamination of sufficient concentrations to require further excavation and investigative follow-up.
- The current environmental consultant is only involved with a small portion of the remedial work, but Alameda County would prefer to have a single agent with whom to interact (19).

In September 1991, PES Environmental, Inc., made a recommendation to Alameda County that the current site owner and operator, Nady Systems, Inc., be allowed to formally abandon the soil vapor extraction system, extraction wells, and passive recharge wells still present on site. PES Environmental has also recommended that an additional three-quarters of groundwater monitoring data be collected to establish a reliable base for future remedial planning, if any is required (8). Alameda County has not yet responded to the request.

2.4.3 California Environmental Protection Agency, Department of Toxic Substances Control (Cal-EPA). On October 7, 1991, Region 2 of Cal-EPA was notified by Region 4, Cal-EPA, that a load of hazardous liquid waste transported from Mike Roberts was rejected by the designated treatment, storage, and disposal facility (TSDF) listed on the manifest (20). There is no further information available in the Cal-EPA file on the current status or location of the waste.

2.4.4 Bay Area Air Quality Management District (BAAQMD). A Permit to Operate was issued to Mike Roberts Color Productions in September 1991, for the soil vapor extraction and treatment system located at 6707 Bay Street. The vapor extraction system is vented to the atmosphere after treatment through a series of carbon cannisters, and requires permitting under local air quality requirements. An application for renewal of the permit was filed in August 1992 (21).

3.0 INVESTIGATIVE EFFORTS

3.1 Previous Sampling and Analyses

3.1.1 Soil Sampling. In response to the Alameda County Notice of Violation and the pending sale of the property, Mike Roberts initiated a series of subsurface investigations. Between April and August 1989, LW Environmental Services, Inc. performed four subsurface investigations. Eight soil borings were cored (B-1a, B-2a, and B1 through B-6), and a maximum of six soil samples were collected from each boring at 5-foot intervals. A total of 28 samples were collected and analyzed for metals (EPA Methods 6010 and 3050), Polychlorinated biphenyls (PCBs) (EPA Method 8080), Total Petroleum Hydrocarbons (TPH) (EPA Method 8015), benzene, toluene, ethylbenzene, xylene (BTEX compounds) (EPA Method 8020), oil and grease (Standard Method 503D), volatile organic compounds (EPA Method 8240), acid and base semivolatile organic compounds (EPA Method 8270), and halogenated volatile organics (EPA Method 8010). Analytical results of the soil samples collected during these investigations indicated the presence of up to 0.700 ppm PCBs, 0.500 ppm 1,2-dichloroethane, 0.300 ppm tri-chloroethene, and 0.110 ppm chlorobenzene, 0.240 ppm benzene, 1.300 ppm toluene, 1.800 ppm ethylbenzene, and 11 ppm xylene isomers. Detectable concentrations of metals, including cadmium, chromium, cobalt, nickel, lead, vanadium, copper, barium, and zinc were found in all samples (11).

In October 1989, LW Environmental Services, Inc. supervised the removal of the underground storage tanks and collected soil samples from below the tank excavation to determine the extent of soil contaminated by the leaking tanks. A total of six samples were collected, one from the west end of each tank and one from the east end of each tank by driving brass tubes into the excavated soil (12). Each soil sample was analyzed for benzene, toluene, xylene, and ethylbenzene (BTEX) using EPA Method 8020, and halogenated volatile organic compounds (EPA Method 8010). Results indicate the presence of up to 4.6 ppm benzene, 0.011 ppm ethylbenzene, 0.060 ppm toluene, 7.5 ppm xylenes, 2 ppm 1,3 dichlorobenzene, 0.070 ppm 1,2-dichlorobenzene, and 2.4 ppm 1,4-dichlorobenzene (17).

A localized area of contaminated soil located along the western property fence line was excavated to an approximate depth of 3 feet by LW Environmental Services, Inc. on August 21,1989. Two soil samples were collected from approximate depths of 1 feet and 3 feet, and each sample was analyzed for purgeable volatile organic compounds (EPA Method 8240). The only contaminants detected were up to 80 ppm toluene, 20 ppm ethylbenzene, and 360 ppm total xylenes (11).

In January 1990, Robert P. Gates of Erskine & Tulley, an attorney acting for Mike Roberts, contracted with SCS Engineers to perform additional subsurface evaluations of the Mike Roberts site. SCS Engineers supervised the drilling of five additional soil borings (B9 through B13) at the Mike Roberts site. A total of 10 soil samples were collected with a 2-inch inner diameter, Split Spoon Modified California sampler fitted with brass liners (6). Samples were collected from each boring at 5-foot intervals, and analyzed for organochlorine pesticides and PCBs (EPA Method 8080), metals (EPA Method 6010), volatile organic compounds (EPA Method 8240), and semi-volatile organic compounds (EPA Method 8270). Analytical results for soil samples indicated the presence of up to 4.2 ppm PCBs, 38 ppm arsenic, 610 ppm barium, 0.48 ppm beryllium, 44 ppm cadmium, 100 ppm chromium, 28 ppm cobalt, 4,500 ppm copper, 3,000 ppm lead, 0.12 ppm mercury, 27 ppm molybdenum, 350 ppm nickel, 39 ppm vanadium and

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6,200 ppm zinc. Soil samples had concentrations of up to 8.3 ppm MIBK, 0.54 ppm benzene, 0.061 ppm toluene, 0.250 ppm ethylbenzene, and 0.560 ppm xylenes (14).

In September 1991, PES Environmental, Inc. performed additional sampling at the Mike Roberts site for Alameda County to confirm previous data and evaluate site conditions after the remediation activities were completed. Two new soil borings were cored in soils beneath the former underground storage tank location. A total of four soil samples were collected using a 2-inch-diameter split spoon sampler lined with stainless steel tubes. The soil samples were analyzed for volatile organic compounds using EPA Method 8240, including an extended scan for MIBK. No volatiles were detected in soil samples above detection limits (8).

3.1.2 Groundwater Sampling. Between April and August 1989, a series of subsurface investigations was performed by LW Environmental Services, Inc. for Mike Roberts. Four monitoring wells (MW-1, MW-3, MW-5, and MW-6) were installed in soil borings B1, B3, B5, and B6 (8). Groundwater was sampled on July 8, 1989, and September 7, 1989, and analyzed for purgeable volatile organics (EPA Method 8240), halogenated volatile organic solvents (EPA Method 8010), PCBs (EPA Method 8080), metals (EPA Method 6010), and/or acid and base neutral extractables (EPA Method 8270). Analytical results for samples collected from groundwater monitoring wells indicated the presence of up to 0.080 ppm bis-(2-ethylhexyl)phthalate, 0.006 ppm 2,4-dimethylphenol, 0.005 ppm naphthalene, 0.016 ppm 2-methylnaphthalene, 0.004 ppm vinyl chloride, 0.008 ppm trans-1,2-dichloroethene, 0.008 ppm benzene,and 0.063 ppm lead and 0.064 ppm chromium. All other analytes were not detected (11).

In January 1990, Robert P. Gates of Erskine & Tulley, acting for Mike Roberts, contracted with SCS Engineers for the installation of two additional monitoring wells (MW-7 and MW-8) at the Mike Roberts site (6). Groundwater samples were collected from all six monitoring wells and analyzed for volatile organic compounds using EPA Method 624. Analytical results for groundwater samples indicated the presence of contaminants at concentrations up to 2.1 ppm benzene, 160 ppm of MIBK, 20 ppm ethyl acetate, 5.8 ppm butyl acetate, 32 ppm propyl acetate, 12 ppm ethyl butyl ether, and 34 ppm C6 alcohol (14).

In September 1991, PES Environmental, Inc. performed additional soil and groundwater sampling for Alameda County to confirm previous analytical data and evaluate current site conditions after remediation activities. Two additional soil borings were cored in soils beneath the former underground storage tank location. In addition, groundwater samples were collected from MW-1, MW-3, and MW-8. Soil and groundwater samples were analyzed for volatile organic compounds and MIBK. No volatiles were detected in soil samples above detection limits, and groundwater samples had up to 160 ppm MIBK, 0.007 ppm benzene, 0.008 ppm toluene, and 0.003 ppm total xylenes (8).

3.1.3 Sump Sampling. A sump located at the rear of the facility outside the building was excavated on August 21, 1989 by LW Environmental Services, Inc. for Mike Roberts. Samples of near surface soil (1-foot below grade) and sump fluids were collected from the sump for analysis. The sump soil sample was analyzed for purgeable volatile organics (EPA Method 8240) and analytical results indicated concentrations below detection. The sump fluid sample was analyzed for metals (EPA Method 6010) and purgeable volatile organics (EPA Method 8240). Analytical results of the sump fluid indicated concentrations of up to 0.023 ppm barium, 0.920 ppm copper, 0.103 ppm lead, and 0.510 ppm zinc, and concentrations of volatile organics were not detected (11).

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3.1.4 Summary of Sampling and Analytical Activities. Prior to 1947, the site consisted of undeveloped land and saturated soil and water. Sampling results suggest that contaminants found in the soil, such as heavy oil, grease, and/or coal tar derivatives, are likely derived from the landfill itself. The MIBK in the soil near the tank pit has probably acted as a solvent, dissolving the heavy hydrocarbons and transporting them to groundwater, according to SCS Engineers (6).

Since April 1989, five soil sampling activities have been performed at the Mike Roberts facility. Between April and August 1989, two sampling activities were performed by LW Environmental Services, Inc. to characterize contamination on site. LW Environmental Services, Inc. also sampled soils beneath the tank excavation and sump. In January 1990, SCS Engineers installed additional soil borings to further characterize the site. In September 1991, PES Environmental, Inc. installed two more borings and collected soil samples for analysis. Sample results indicated the presence of soils contaminated with zinc, copper, lead, benzene, and MIBK.

A total of three groundwater sampling events were performed at the Mike Roberts site. LW Environmental Services, Inc. sampled four monitoring wells between April and August 1989. SCS Engineers installed two additional monitoring wells and sampled all six existing wells in January 1990. PES Environmental, Inc. sampled three of the onsite monitoring wells (MW-1, MW-3, and MW-8) in September 1991, to determine remediation effectiveness. Groundwater sampling indicates the presence of benzene and MIBK at levels three times background.

3.2 EPA Sampling

No sampling by the EPA has been conducted at, or proposed for, the Mike Roberts site.

4.0 HAZARD RANKING SYSTEM FACTORS

4.1 Sources of Contamination

Currently, business activities located on site do not generate hazardous waste. However, sources of contamination from previous operations are present on site. There are three potential sources of contamination at the Mike Roberts site:

- Aerial photographs suggest that the Mike Roberts site was previously underwater and gradually filled in with various materials. The site may have once been part of a municipal landfill (6). Sampling results indicate that contaminants associated with landfills, such as total petroleum hydrocarbons, lead, zinc, and bis-(2-ethylhexyl)phthalate, are present in soils on site (11).

- Three underground storage tanks that contained MIBK and/or MEK were excavated in October 1989 (12). All three tanks are considered sources for groundwater contamination, though at the time of removal, Alameda County noted that only one of the tanks had holes in the periphery (13). The total capacity of the three underground storage tanks was 6,850 gallons. Post-removal groundwater sampling indicates the presence of up to 160 ppm MIBK, 2.1 ppm benzene, 0.008 ppm toluene, 0.180 ppm zinc, 0.063 ppm lead, and 0.040 ppm copper (8).

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- Although up to eighty-nine 55-gallon waste drums used to store waste inks, solvents, and oils, on site have been removed, and localized areas of contaminated soil have been excavated, contaminated soil may still be present on site because of waste drum leakage. The quantity of contaminated soil remaining on site is not known. Post-removal sampling indicates soil on site contains up to 6,040 ppm zinc, 160 ppm lead and 153 ppm copper (8).

A soil vapor extraction and treatment system was installed by SCS Engineers in mid-1990 (14). The vapor extraction and treatment system was operated from July 1990 to February 1991. SCS Engineers reported that the system reduced the total volatile organic vapor concentrations in soil to less than 10 ppm (8).

A groundwater extraction and treatment system was also installed by SCS Engineers to remove and treat contaminated groundwater from MW-7 and MW-8. The system was operated from October 1990 to March 1991, and it is estimated that approximately 3 pounds of MIBK were removed during operation of the groundwater remediation system (8).

4.2 Groundwater Pathway

4.2.1 Hydrogeological Setting. The Mike Roberts site lies in the Santa Clara Valley–East Bay Area groundwater basin in Alameda County, on the east side of the San Francisco Bay. The basin extends 580 square miles and drains into the Guadalupe River, and Alameda, Coyote, Redwood, and San Francisquito creeks (22).

The Alameda County area comprises three different physiographic areas: the highlands of the Diablo Range, the intermontane valleys within the Diablo Range, and the San Francisco Bay depression. The Mike Roberts site is located in the San Francisco Bay depression, which consists of an alluviated area near the mountains and an approximately 3-mile-wide strip of tideland area adjacent to the bay. The alluviated deposits in the San Francisco Bay depression consist of recent sediments: clays, silts, sands, and gravels. The tideland deposits are mostly clay, which interfinger with alluvial deposits. Underlying the recent deposits are older sediments that cannot be differentiated lithologically from the recent deposits (23).

Locally, subsurface soils consist primarily of sands and gravels to approximately 2 feet below ground surface (bgs), and clays interspersed with sand lenses at deeper depths. Fill and construction debris, such as nails, glass, and wood, were found in eight borings on site indicating the site was filled by dumping and landfill operations (11).

Shallow groundwater is first encountered at a depth of approximately 8 to 13 feet bgs (11). The general direction of groundwater flow appears to be toward the west-northwest at an approximate gradient of 0.007 feet per foot (equivalent to 1 foot of vertical drop per 143 feet of horizontal traverse in the gradient direction) (8). The flow direction is generally consistent with an expected migration direction toward the San Francisco Bay; however, flow direction can vary (8,14).

4.2.2 Groundwater Targets. Drinking water for the Emeryville area is supplied by the East Bay Municipal Utility District (EBMUD) through the Orinda Filter Plant, approximately 6 miles northeast of the site. Water from the filter plant flows into the subsurface Claremont Water Tunnel and is distributed through the EBMUD water distribution system. The district does not use

groundwater as a drinking water source, though private wells are found in the area for industrial, irrigation and, possibly, domestic uses (24).

According to the Alameda County Bay Plain Groundwater Study, two domestic wells are 2 to 3 miles from the site. One well, approximately 2 miles from the site, is apparently drawing water from a depth of 135 feet. The second well, approximately 2.25 miles from the site, is drawing from an undetermined depth. Both wells are upgradient from the site, and serve a maximum of 8 persons. Other wells within 4 miles of the site are used primarily for irrigation and industrial purposes (25).

4.2.3 Groundwater Pathway Conclusion. An observed release of MIBK and benzene at concentrations exceeding HRS Reference Dose Screening Concentrations has been established. An observed release is established when the chemical analysis of an environmental sample results in reported concentrations that are three or more times above background concentrations, and some portion of the release is attributable to the site. A summary of the groundwater sampling results between July 1989 and September 1991 is shown in Table 4-1. Concentrations of MIBK and benzene found in environmental well MW-8 exceeded the HRS Reference Dose Screening Concentrations. Background samples were collected from MW-3, located hydraulically upgradient of MW-8.

Table 4-1

Summary of Results: Groundwater Sampling at the Mike Roberts Site

(Units in parts per million, or milligrams per liter)

July 1989 to September 1991

Hazardous Substance	Upgradient Background Concentration (MW-3)	Downgradient Concentration (MW-8)	HRS Reference Dose Screening Concentrations
Methyl isobutyl ketone	<0.010	160	1.8
Benzene	<0.005	2.1	0.005

However, even though an observed release can be established for the groundwater migration pathway for MIBK and benzene, the nearest drinking water well is 2 to 3 miles from the site.

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4.3 Surface Water Pathway

*4.3.1 **Hydrological Setting.*** An observed release of benzene and MIBK to groundwater has been established. There is, however, the potential for contaminants to migrate from the site to surface water via groundwater. Surface water runoff is discharged into a dead-end ditch on the west side of the property. Coastal tidal waters are found approximately 1 mile from the site and no aquifer discontinuity is apparent between the groundwater and surface water.

The Mike Roberts site is located on the west side of Interstate 80. The nearest downslope body of water is the San Francisco Bay, approximately 0.25 mile from the site. The site is not located within a floodplain (26). The 2-year, 24-hour rainfall for the city of Emeryville is 2.5 inches (27).

*4.3.2 **Surface Water Targets.*** No drinking water intakes are found in the bay or the ocean within 15 miles of the site. However, there are two main commercial fishing operations in the San Francisco Bay. The annual Pacific herring catch in San Francisco Bay is a maximum of 1.5 million pounds. The maximum annual bay shrimp catch is 155,000 pounds (28).

Sensitive environments and wetlands are located approximately 0.25 mile from the site. The mud flats and gravelled berms bordering the San Francisco Bay are apparently inhabited by endangered bird species that feed or forage along the mudflats. These endangered species include California Least Terns (*Sterna antillarum browni*), Brown Pelicans (*Pelecanus occidentalis*), and Saltmarsh Common Yellowthroat (*Geothlypis Trichas sinuosa*) (29,30). Other endangered species that may be found in the area include the Salt Marsh Harvest Mouse (*Reithrodontomys raviventris*) and the Santa Cruz Tarplant (*Holocarpha macradenia*) (30).

*4.3.3 **Surface Water Pathway Conclusion.*** There is a potential for a release of contaminants from the site to the San Francisco Bay via groundwater. In addition, sensitive environments are found approximately 0.25 mile from the site in wetlands bordering the San Francisco Bay. However, it would be difficult to attribute contaminants in sensitive wetland environments to those found at the site, because the site is located in an industrial area.

4.4 Soil Exposure and Air Pathway

*4.4.1 **Physical Conditions.*** The Mike Roberts site is in a primarily commercial, industrial, and residential area of Emeryville. The nearest residential complex is approximately 0.25 mile south of the site. Fencing is found on the north, west, and south property boundaries, and the site is completely paved and landscaped (5).

*4.4.2 **Soil and Air Targets.*** According to Charles Tsou, the controller of Nady Systems Inc., approximately 90 people are employed on site. The only business within 200 feet is a newly constructed, vacant warehouse and office building on the south side of the property. The freeway offramps for Ashby Avenue and Bay Street border the north and west side of the property, and Bay Street and railroad easements are on the eastern property border (5).

*4.4.3 **Soil Exposure and Air Pathway Conclusions.*** No hazardous waste is currently generated on site. Although contaminated soil and groundwater is known to be present on site, the potential for exposure is low because the site is completely paved and landscaped.

5.0 EMERGENCY RESPONSE CONSIDERATIONS

The National Contingency Plan [40 CFR 300.415 (b) (2)] authorizes the EPA to consider emergency response actions at those sites that pose an imminent threat to human health or the environment. For the following reasons, a referral to Region IX's Emergency Response Section does not appear to be necessary:

- Hazardous wastes have been removed from the site.
- The site is being remediated under the direction of Alameda County.

6.0 SUMMARY

The Mike Roberts site is located at 6707 Bay Street, Emeryville, California. The site is located approximately 0.25 mile east of the San Francisco Bay. The site is bound on the west and north by the Ashby Avenue and Bay Street offramps from Interstate 80, on the east by Bay Street, and on the south by a vacant office and warehouse building and a self-storage facility. The 4.6-acre lot consists of two buildings connected by an enclosed corridor. An approximately 55,000-square-foot warehouse is used for distribution and packaging, and an approximately 15,000-square-foot, two-story building is used for office space. Two businesses currently occupy the site: Nady Systems, Inc., the owner of the property, and Richards and Sterling, a ceramic tile distributor that is leasing a portion of the warehouse. Most of the remainder of the site is paved to provide employee parking; the entryway to the foyer between the office complex and the warehouse facility is landscaped.

From approximately 1947 through the 1950s, the site was underwater, and was gradually filled in with materials. Prior to 1963, the site may have been part of a municipal landfill south of the property. From approximately 1963 until 1979, the site was occupied by Dymo Industries, Inc., a label tape and label tape puncher manufacturer owned by Esselte Pendaflex Corporation. In 1979, the property was sold to Mike Roberts Color Productions and its affiliated partnership, MRCP Realty Company. Mike Roberts Color Productions manufactured and printed color postcards, lithographs, and performed off-set printing operations. In early 1989, Mike Roberts Color Productions declared bankruptcy, and the property was subsequently sold to Nady Systems, Inc., which has occupied the site since March 1990.

Currently, there is no hazardous waste generated, stored, or treated on site. However, sources of contamination from previous operations are present. In 1989, eighty-nine 55-gallon waste drums that stored spent inks, solvents, and pigments were removed from a fenced storage area behind the warehouse. In addition, three underground storage tanks that were apparently installed by Dymo Industries, Inc., were discovered, and found to contain methyl isobutyl ketone and possibly methyl ethyl ketone. The underground storage tanks apparently leaked and were subsequently removed. Surrounding soil that showed evidence of contamination was also excavated. The waste drums showed evidence of leakage, and surface runoff was not contained within the fenced area. Apparently, contaminated surface runoff flowed into a dead-end ditch along the western boundary of the property. Contaminated soils in the ditch were also excavated in 1989.

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The vadose zone (zone of aeration above the water table) and the groundwater are contaminated beneath the property. Soil samples tested positive for lead, zinc, and copper, and low concentrations of benzene, toluene, ethylbenzene, and xylenes were present in some samples. Little or no contamination was noted in all groundwater wells, except MW-8, which had a high concentration of MIBK and benzene.

Because contaminated soil and groundwater were found on site, SCS Engineers, consultants for Mike Roberts' acting attorney, installed soil vapor and groundwater extraction systems to treat near-surface soils and groundwater contaminated with benzene, toluene, xylenes, and methyl isobutyl ketone. The soil vapor extraction system was operated from July 1990 to February 1991. The groundwater extraction and treatment system was operated from October 1990 to March 1991.

The tank removal was approved and overseen by Alameda County, Department of Environmental Health, Hazardous Materials Division. Waste drum removals and soil excavations were performed by LW Environmental Services, Inc., consultants for Mike Roberts. A Permit to Operate was issued to Mike Roberts Color Productions in September 1991, for venting the vapor extraction system to the atmosphere.

Based upon sampling results obtained during the operation of the extraction treatment systems, and samples collected by PES Environmental, Inc., consultants for Alameda County, Department of Environmental Health, Hazardous Materials Division, a recommendation was made to allow Nady Systems, Inc. to formally abandon the soil vapor extraction system, extraction wells, and passive recharge wells still present on site. PES Environmental, Inc. also recommended that an additional three-quarters of groundwater monitoring data be collected to establish a reliable base for future remedial planning, if any is required. Alameda County, Department of Environmental Health, Hazardous Materials Division, has not responded to the request.

Concentrations of MIBK and benzene were found in the environmental monitoring well, MW-8, that exceeded the HRS Reference Dose Screening Concentrations, and were above detection limits for background samples collected from MW-3, located hydraulically upgradient of MW-8. As a result, there is a potential for a release of contaminants from the site to the San Francisco Bay via groundwater. Although sensitive environments are found approximately 0.25 mile from the site in wetlands bordering the San Francisco Bay, it would be difficult to attribute contaminants in sensitive wetland environments to those found at the site because the site is located in an industrial area. In addition, the potential for exposure to contaminated soil and groundwater on site is low because the site is completely paved and landscaped, and no hazardous waste is generated on site.

The significant Hazard Ranking System Factors associated with the site are:

- No hazardous wastes are generated on site.
- The site has remediation systems installed for soil vapor extraction and treatment, and for groundwater extraction and treatment.
- The nearest surface body of water, the San Francisco Bay, is not used as a source of drinking water.

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- The nearest drinking water well is located approximately 2 miles and hydraulically upgradient from the site, and serves a total population of approximately eight people.
- The site is completely paved and landscaped.
- Surface water runoff flows into a dead-end ditch along the western boundary of the property.

7.0 EPA RECOMMENDATION

	Initial	Date
No Further Remedial Action Planned under CERCLA	JMB	11/18/93
Higher-Priority Assessment under CERCLA		
Lower-Priority Assessment under CERCLA		
Defer to Other Authority (e.g., RCRA, NRC)		

Notes:

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APPENDIX A

REFERENCE LIST

Site: Mike Roberts Color Productions

1. U.S. Environmental Protection Agency, Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), July 14, 1992.

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6. SCS Engineers, Environmental Assessment, 6707 Bay Street, Emeryville, CA (draft) (with attachment), January 30, 1990, pp. 1-2, 19-24.

7. Gates, Robert P., Law Offices of Erskine & Tulley, Letter to John J. O'Conner, Esq., Assistant General Counsel for Esselte Pendaflex Corporation, February 27, 1990.

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9. LW Environmental Services, Inc., Status report of Activities Relating to the Removal and Disposal of Hazardous Waste from M.R.C.P. Property and Analytical Results of Soil and Water Samples Collected in the Northwest Area of the Property, June 27, 1989, pp. 1-2.

10. McClay, James J., Mike Roberts Color Productions, Letter to Rafat A. Shahid, Alameda County, Department of Environmental Health, March 9, 1989.

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12. LW Environmental Services, Inc., Final Report/Tank Removal, November 3, 1989.

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16. U.S. Environmental Protection Agency, Resource Conservation and Recovery Act Notifiers List, Region IX Database, March 24, 1992.

17. Shahid, Rafat A., Alameda County, Department of Environmental Health, Letter to James McClay, Mike Roberts Color Productions, March 2, 1989.

18. Alameda County, Department of Environmental Health, Hazardous Materials Division, Underground Tank Closure/Modification Plans (with attachments), August 29, 1989, pp. 1, 5.

19. Byrne, Dennis J., Alameda County, Health Care Services Agency, Department of Environmental Health, Hazardous Materials Program, Letter to Charles Tsou, Nady Systems Incorporated, January 30, 1991.

20. Baker, George R., California Environmental Protection Agency, Department of Toxic Substances Control, Region 4, Letter to the Duty Officer, California Environmental Protection Agency, Department of Toxic Substances Control, Region 2, October 7, 1991.

21. Bay Area Air Quality Management District, Permit to Operate, Number 4607, issued to Mike Roberts Color Productions, effective dates 9/11/91 to 9/11/92.

22. State of California Resources Agency, Department of Water Resources, California's Ground Water, Bulletin 118, September 1975, pp. 35-37.

23. State of California, Water Resources Board, Alameda County Investigation, Bulletin 13, July 1955, pp. 2-37 to 2-41.

24. Owen, David L., East Bay Municipal Utility District, Telephone conversation recorded on Contact Report by Kathryn Curtis, Bechtel Environmental, Inc., August 6, 1992.

25. Alameda County Public Works Agency, Bay Plain Groundwater Study, Well Inventory Report, August 10, 1992.

26. Kaufman, Maurice, City of Emeryville, Public Works Department, Discussion recorded on Contact Log, September 24, 1992.

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29. Feinstein, Arthur, Golden Gate Audubon Society, Telephone conversation recorded on Contact Report by Kathryn Curtis, Bechtel Environmental, Inc., August 20, 1992.

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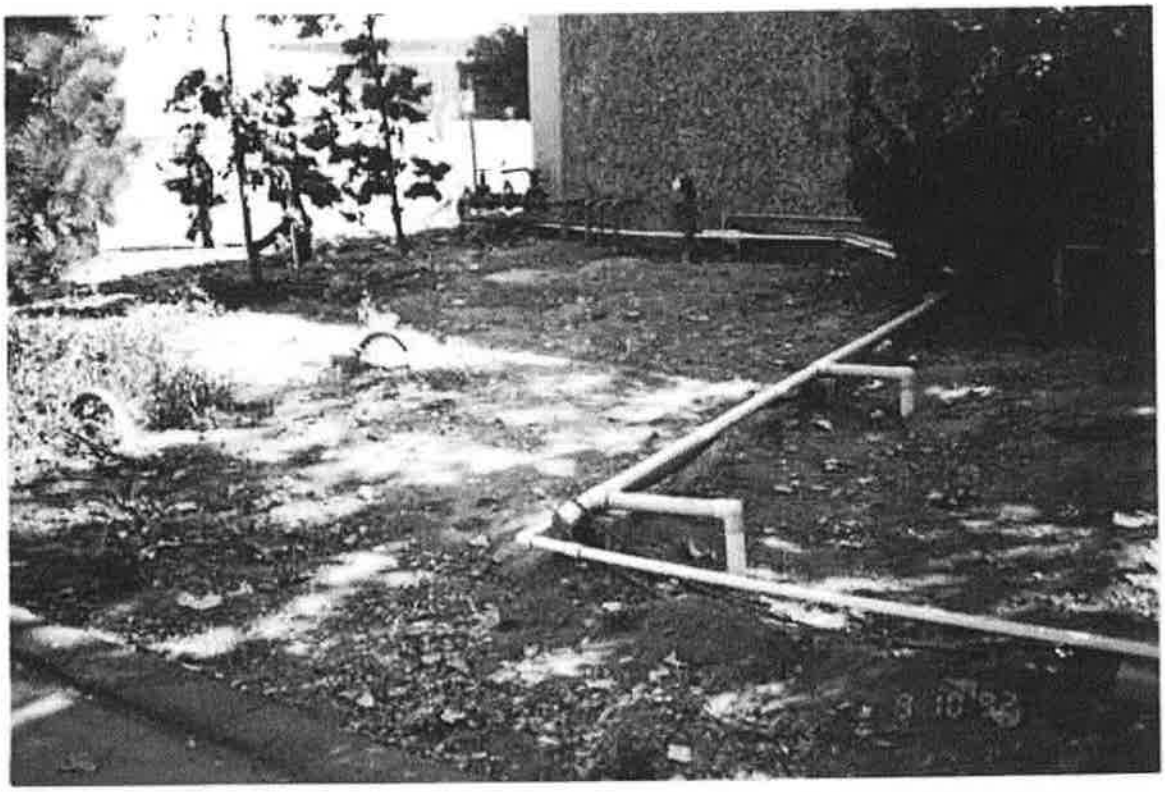
APPENDIX B – Photographic Documentation



1. Front of Nady Systems, Inc., current owner and occupant of the Mike Roberts Color Production site (facing west).



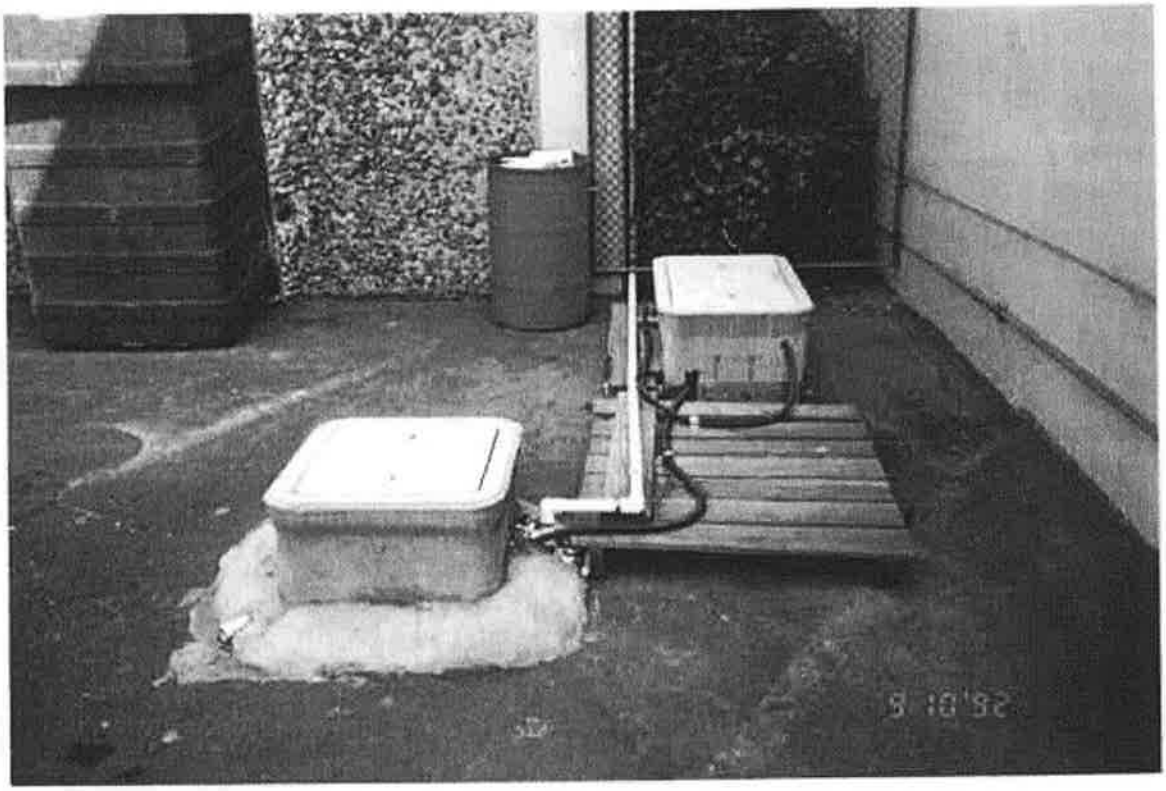
2. Front of Richards and Sterling (facing west), a ceramic and tile distributorship that leases a portion of the warehouse from Nady Systems, Inc.



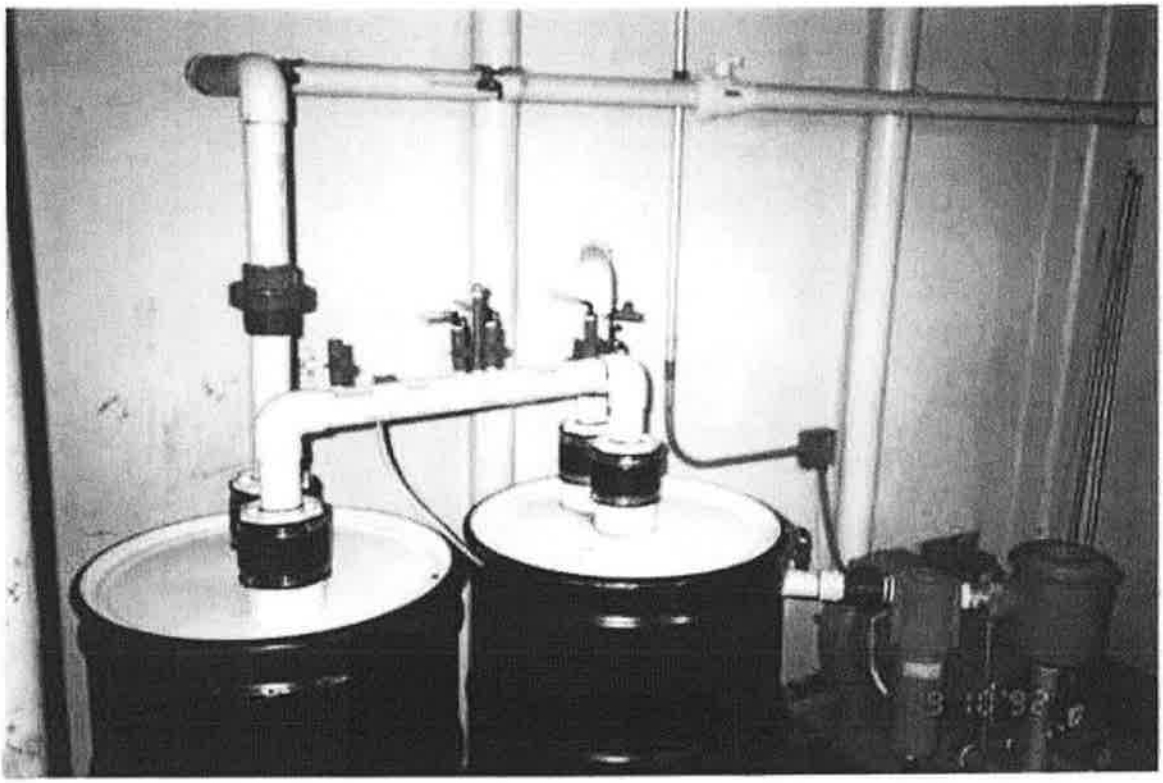
3. Location of excavated methyl ethyl ketone tanks and soil vapor extraction system (facing east).



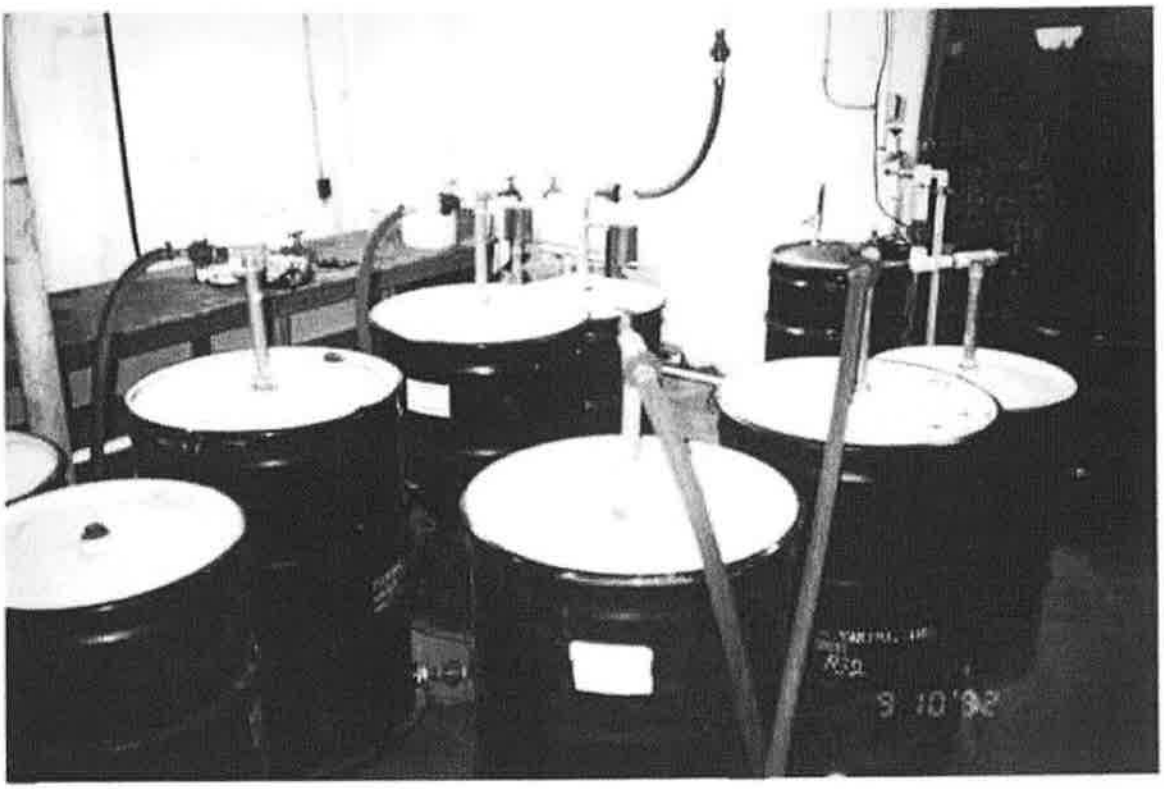
4. Former waste drum storage area located on the west side of the property (facing east).



5. Groundwater extraction and pumping system installed in waste drum storage area (Monitoring Well 7), facing east.



6. Soil vapor treating system located inside the warehouse, northeast corner of building.



7. Groundwater treating system located inside warehouse, northeast corner of building.

APPENDIX C

CONTACT LOG

Site: MIKE ROBERTS COLOR PRODUCTIONS

EPA ID: CAD 009133190

Name	Affiliation	Phone	Date	Information
Dave Owen	EBMUD	(510) 287-1122	8/6/92	See Contact Report.
Andres Godfrey	Alameda County Public Works Dept.	(510) 670-5575	8/6/92	Andres will send me a database listing of the private wells in Alameda County as well as topo maps that have the wells plotted on them.
Ed Howell	Alameda County Health Agency, Division of Hazardous Materials	(510) 271-4300	8/7/92	Send letter specifying files requested. Will pull/review files. Reply letter will be sent to provide information requested. A cost of $71 will be assessed for any time personnel spend on the request. Copies cost $1 per page.
Brit Johnson	Alameda County Health Agency, Hazardous Materials Division	(510) 271-4320	8/10/92	Bryan Oliva will be the site leader for Mike Roberts Color Reproductions.
File Room Clerk	Cal-EPA	(510) 540-3800	8/11/92	Cal-EPA has a file for the Mike Roberts site. An appointment to review the file was set for Aug. 13, 2 p.m. (contacted by Tom Genolio, Bechtel Environmental, Inc.).

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CONTACT LOG (Cont'd)

Site: MIKE ROBERTS COLOR PRODUCTIONS

Name	Affiliation	Phone	Date	Information
Michael Munk	Alameda County Planning Department	(510) 670-5400	8/13/92	The average number of persons per household is: Alameda County-2.13; Emeryville-1.01. The average number of persons per family is: Alameda County-3.18; Emeryville-2.81.
Arthur Feinstein	Golden Gate Audubon Society	(510) 843-2222	8/20/92	See Contact Report.
Michael Diles	Law Offices	(415) 957-0777	9/1/92	See Contact Report.
Becky Ota	CA Department of Fish and Game	(415) 688-6340	9/16/92	See Contact Report.
Maurice Kaufman	City of Emeryville Public Works Department	(510) 654-6161	9/24/92	Emeryville and the Mike Roberts site are no longer considered to be in a floodplain. The Flood Hazard Boundary map for the area was rescinded in 1978.

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~~302 00002~~
~~318 00004~~
302 00003
318 00006

APPENDIX D

CONTACT REPORT

AGENCY/AFFILIATION: East Bay Municipal Utility District		
DEPARTMENT: Water System Inspection Section		
ADDRESS: 1945 Adeline Street	CITY: Oakland	
COUNTY: Alameda	STATE: CA	ZIP: 94607
CONTACT(S)	TITLE	PHONE
Dave Owen	Water System Inspector	(510) 287-1122
BEI PERSON MAKING CONTACT: Kathryn Curtis KC 8M		DATE: 8/6/92
SUBJECT: Sources of Drinking Water		
SITE NAMES: Allied Crane, Inc. and Mike Roberts Color Reproductions	EPA ID: CAD 983621954	

DISCUSSION:

Mr. Owen and I discussed the sources of drinking water supplied by the East Bay Municipal Utility District (EBMUD) for two sites located in Alameda County: Allied Crane, Inc. 727-66th Avenue, Oakland, CA; and Mike Roberts Color Reproductions, 6707 Bay Street , Emeryville, CA.

Mr. Owen explained that 85 percent of the drinking water supply within a 4-mile radius of each site is supplied by EBMUD through the Orinda Filter Plant. The filter plant gets its water from surface runoff through the EBMUD watershed into reservoirs. From the reservoirs, water then flows into the Mokelumne aqueduct which supplies the filter plant. The filtered water is then discharged into the subsurface Claremont Water Tunnel and the EBMUD water distribution system. The district does not use groundwater as a drinking water source, though private wells are found in the area for industrial, and possibly domestic, uses. The estuary at the Berkeley Marina is within 2 miles of the Mike Roberts site and is used for recreational purposes.

CONTACT CONCURRRENCE: David L Owen DATE: 8-17-92

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CONTACT REPORT

AGENCY/AFFILIATION: Nady Systems, Incorporated			
DEPARTMENT:			
ADDRESS: 6707 Bay Street		CITY: Emeryville	
COUNTY: Alameda		STATE: CA	ZIP: 94606
CONTACT(S)	TITLE		PHONE
Charles Tsou	Controller		(510) 652-2411
BEI PERSON MAKING CONTACT: Kathryn Curtis			DATE: 8/20/92
SUBJECT: Initial contact			
SITE NAME: Mike Roberts Color Reproductions		EPA ID: CAD 009133190	

DISCUSSION:

Charles directed me to contact the attorney who is handling the litigation case for the cleanup of the Mike Roberts Color Reproductions site. The attorney is: Richard DeJauregui and his number is (415) 957-0777. A site visit was not scheduled because Charles wanted to arrange it through the lawyer. Nady Systems is a distributor for wireless microphones and they do not generate hazardous waste. Solder and Fluorescent light bulbs are the only hazardous substances used on the site.

CONTACT CONCURRRENCE: _____ DATE: _____

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CONTACT REPORT

AGENCY/AFFILIATION: Golden Gate Audubon Society		
DEPARTMENT: NA		
ADDRESS: 2530 San Pablo Avenue, Suite G	CITY: Berkeley	
COUNTY: Alameda	STATE: CA	ZIP: 94702
CONTACT(S)	TITLE	PHONE
Arthur Feinstein	Program Coordinator	(510) 843-2222
BEI PERSON MAKING CONTACT: Kathryn A. Curtis KAC		DATE: 8/20/92
SUBJECT: Endangered species in Emeryville		
SITE NAME: Mike Roberts Color Productions	EPA ID: CAD 009133190	

DISCUSSION:

The coastal area located along the western border of Emeryville borders the San Francisco Bay and is mostly mudflat and gravelled berms. Arthur stated that little marsh land occurs in this area. However, a number of endangered bird species that feed or forage along the mudflats are thought to be present in this area: California Least Terns, Brown Pelicans, and the Salt Marsh Yellow Throat . Little is known about the species that occupy the shoreline area bordering Emeryville and the area is not designated a separate region in the annual Audubon bird counts. The Emeryville crescent, located approximately 0.25- to 1-mile south of the mudflats, is a wetland and marsh environment . In addition to those species listed above, the California Black Rail and the Clapper Rail are found in the Emeryville crescent. However, Arthur believes these two species do not occur in the mudflat area located near the site.

CONTACT CONCURRRENCE: Arthur Feinstein DATE: 9/22/92

Also the possibility of the Alameda Song Sparrow. The mudflat region does support large floats of ducks (scaup + others) during winter + large numbers of shorebirds.

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CONTACT REPORT

AGENCY/AFFILIATION: Law Offices			
DEPARTMENT:			
ADDRESS: 785 Market Street, Suite 1150		CITY: San Francisco	
COUNTY: San Francisco		STATE: California	ZIP: 94103
CONTACT(S)	TITLE		PHONE
Michael Diles	Associate		(415) 957-0777
BEI PERSON MAKING CONTACT: Kathryn A. Curtis			DATE: 9/1/92
SUBJECT: Scheduled time for site visit.			
SITE NAME: Mike Roberts Color Reproduction		EPA ID: CAD 009133190	

DISCUSSION: A site visit confirmation letter was sent to Richard DeJauregui to schedule a site visit at the former Mike Roberts Color Reproductions.site. Richard DeJauregui is on vacation through 9/4/92, and Michael is handling his calls during his absence. Michael informed me that Richard would be in court on September 9, the originally scheduled time for the site visit. We agreed to an alternate time and rescheduled the visit for 2:30 p.m. on Thursday, September 10, 1992.

CONTACT CONCURRRENCE: _____ DATE: _____

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APPENDIX E

SITE RECONNAISSANCE INTERVIEW AND OBSERVATIONS REPORT

Bechtel Environmental, Inc.
P.O. Box 193965
San Francisco, CA 94119-3965

OBSERVATIONS MADE BY: Kathryn A. Curtis and Tom J. Genolio

DATE: September 10, 1992

FACILITY REPRESENTATIVE(S) and TITLE(S):

James J. McClay	Mike Roberts Color Productions
Brian F. Berger	Pettit & Martin
Richard DeJauregui	Lawyer for Nady Systems, Inc.
Charles Tsou	Controller, Nady Systems, Inc.
James D. Wilson	Hydrogeologist, PES Environmental, Inc.

SITE: Mike Roberts Color Productions

EPA ID: CAD 009133190

A site reconnaissance was conducted at the Mike Roberts Color Productions site on September 10, 1992. The weather was sunny, with a slight breeze, and the temperature was approximately 75°F. The Bechtel team, Kathryn A. Curtis and Tom J. Genolio, conducted the site reconnaissance with Brian Berger, Richard DeJauregui, Charles Tsou, James D. Wilson, and James J. McClay at Mike Roberts Color Productions site to gather information on the site location and size, history, processes used and any hazardous waste generated, treated, stored, or disposed of on site. The Bechtel team was provided with a packet of information prepared in response to Bechtel's letter dated August 31, 1992. The reconnaissance included a site tour in which photographs were taken.

The following information was obtained during the site visit and interviews:

The Mike Roberts Color Productions site is located in a commercial, industrial, and residential area in Emeryville. The site consists of a 4.6-acre triangular lot bounded by the offramp from Interstate 80 to northbound Ashby Avenue and Bay Street on the north and west sides, and Bay Street on the east side. The adjacent property located on the south side of Mike Roberts Color Productions, consists of a newly constructed office building and warehouse facility, as well as a self-storage facility. On the northeast side of Bay Street, multiple railroad tracks run parallel to the property boundary. Colter Steel, Inc. is northeast of the site. The Berkeley Aquatic Park is less than 0.25 mile north of the site on the opposite side of the Ashby offramp. A newly constructed residential complex is less than 0.25 mile from the site.

Two structures are on the property: a 15,000-square-foot office complex and a 50,000-square-foot combination office space and warehouse facility. The remainder of the site is paved for parking, except the entryway into the foyer between the office complex and the warehouse facility.

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Site: Mike Roberts Color Productions

Prior to 1947 the site was under water and the San Francisco Bay had not been filled. By 1959, the site was completely filled by dumping, but the property had not been developed. The first known occupant on site was Dymo Industries, a manufacturer of label tape and label tape punchers. Dymo Industries built the office and warehouse on site and installed three underground storage tanks at the northeast corner of the warehouse building. The property was sold to Mike Roberts Color Productions in 1979, when Dymo Industries was purchased by the Esselte Pendaflex Corporation. Nady Systems, Inc. has occupied the site since 1990.

The current owner and occupant, Nady Systems, Inc., leases 17,000 square feet of warehouse space to Richards and Sterling, a ceramic and flooring tile distributor. Richards and Sterling uses the warehouse to store flooring and ceramic tiles prior to distribution. Nady Systems, Inc. occupies the remainder of the warehouse and the entire office complex. Nady Systems, Inc. repairs, designs, packages, and distributes communication systems. According to Charles Tsou, approximately 90 people are employed on site.

Currently, neither business on site receives, stores, transports, or generates hazardous waste. However, hazardous waste has been stored on site in the past. According to James McClay, Mike Roberts Color Productions did not store hazardous waste inside the building. All hazardous waste, including spent solvents, ink, and oil, were stored by Mike Roberts Color Productions in 55-gallon drums in a fenced and paved area on the west end of the warehouse. The drums are no longer on site, but the stained pavement indicates previous spillage. Three underground storage tanks installed by Dymo Industries that leaked MIBK, and possibly MEK, have also been removed, as well as a portion of the surrounding contaminated soils. A soil vapor extraction system and groundwater recovery and treatment system were present on site, but have not been operated since March 1991.

Eight monitoring wells have been installed on site. Monitoring Well 1 (MW-1) is located in the northeastern parking lot on Bay Street, northwest of the former location of the underground storage tanks. Monitoring Well 3 (MW-3) is adjacent to the northeast corner of the warehouse facility along Bay Street. Monitoring Well 8 (MW-8) was installed between the tanks (after their removal) and is currently used for the vapor extraction system. Monitoring Well 7 (MW-7) was installed in the former drum storage area along the northwest side of the warehouse, and is currently used as a pumping system for extracting the groundwater prior to carbon treatment. Monitoring Well 5 (MW-5) and Monitoring Well 6 (MW-6) were installed on the west and north boundaries of the site, beyond the asphalt. None of these wells has been sampled since September 1991.

There were no storm water sewer drains apparent on site. Surface water runoff from the site appears to flow into a shallow ditch between the freeway offramp and the asphalted parking areas of the site. The curb along the parking area has cutouts that allow surface water to run into the ditch. Surface water runoff appears to collect in this shallow ditch and does not appear to flow into the Berkeley Aquatic Park.

The northeastern border of the property along Bay Street is under construction. According to Mr. Tsou, the construction work is for addition of a sidewalk.

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~~302 00006~~

302 00008

CONTACT REPORT

AGENCY/AFFILIATION: California Department of Fish and Game		
DEPARTMENT: Marine Resources Division		
ADDRESS: 411 Burgess Drive	CITY: Menlo Park	
COUNTY: San Mateo	STATE: CA	ZIP: 94025

CONTACT(S)	TITLE	PHONE
Becky Ota	Marine Biologist	(415) 688-6340

BEI PERSON MAKING CONTACT: Kathryn A. Curtis KAC	DATE: 9/16/92
SUBJECT: Commercial Fisheries in the San Francisco Bay	
SITE NAME: Mike Roberts Color Productions	EPA ID: CAD 009133190

DISCUSSION:

only herring subject to quota.

There are two major commercial fisheries in the San Francisco Bay: Herring and Bay Shrimp. Both these species are subject to fishing quotas.** Bay Shrimp are caught primarily in the South Bay, with isolated occurrences in San Pablo Bay. Herring are caught in many different areas of the bay*** generally where fresh water sources enter the bay. The total quantity landed for the last four years is as follows: (See back page)

	1989	1990	1991	1992
Bay Shrimp (lbs):	122,599	151,000	155,000	75,000 (to date)

(Dec-Mar)	88-89	89-90	90-91	91-92
Herring (millions of lbs):	19.5	17.9	15.5	14.8

The Bay Shrimp are harvested primarily for use as live bait for sports fishing. Herring are harvested primarily for their roe which is shipped to Japan where it is considered a delicacy. Small markets exist for fresh supplies of both these commercially fished species, but they are negligible. Other species, such as the ~~tiger~~ leopard and halibut shark, are fished from the bay using a hook and line, or by sports fisherman*, but the quantities of fish caught by these methods are very small. Sport clamming also occurs in the San Francisco Bay.

* There are many other species of fish caught by sportfishermen however they are not caught (allowed) by commercial fishermen

CONTACT CONCURRRENCE: Becky J. Ota DATE: 9-24-92

Commercial fishing inside SF Bay is allowed by Hook+line (i.e. pole+line) ONLY.

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** Both the North + South Bay Shrimp fisheries are well established. The North Bay (i.e. San Pablo Bay) is

*** This is not entirely true. ~~What are stimuli~~ The stimuli for initiating spawning is not well understood. They usually spawn in the intertidal and shallow subtidal areas (+2m to -7m). They spawn (deposit eggs) on a variety of marine vegetation, rocks, and other hard surfaces. Spawning tend to coincide with peaks in plankton productions. While they may be attracted to fresh water they don't necessarily spawn exclusively where fresh water sources exist.

Please call if you need more information or have questions.

~~302 00007~~

302 00009

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AGENCY/AFFILIATION: Golden Gate Audubon Society		
DEPARTMENT: NA		
ADDRESS: 2530 San Pablo Avenue, Suite G	CITY: Berkeley	
COUNTY: Alameda	STATE: CA	ZIP: 94702

CONTACT(S)	TITLE	PHONE
Arthur Feinstein	Program Coordinator	(510) 843-2222

BEI PERSON MAKING CONTACT: Kathryn A. Curtis KAC	DATE: 8/20/92
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SITE NAME: Mike Roberts Color Productions	EPA ID: CAD 009133190

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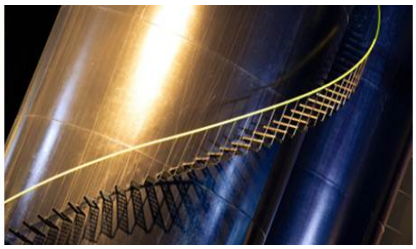
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D R A F T


Phase I Environmental Site Assessment

Nady Systems
6701-6707 Bay Street
Emeryville, California

Prepared for:
AvalonBay Communities, Inc.
Arlington, Virginia

Prepared by:
ENVIRON International Corporation
Emeryville, California

Date:
July 3, 2013

Project Number:
03-32356A

ENVIRON

Signature and Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

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

_____

Anne W. Gates, P.E.

Senior Manager

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1 Summary of Conclusions

ENVIRON International Corporation (ENVIRON) was retained by [Client counsel name] on behalf of [Client name] to perform a Phase I Environmental Site Assessment (ESA) of the Nady Systems (the "Company") property located at 6701-6707 Bay Street in Emeryville, California (herein referred to as the "facility," "property," or the "site"). ENVIRON's assessment was conducted in connection with a potential purchase of the property. The objective of the Phase I ESA, which was conducted in conformance with the scope and limitations of ASTM International's *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* E1527-05 (the "ASTM Standard"), was to identify Recognized Environmental Conditions (RECs), as defined in the ASTM Standard (see Section 2.1).

1.1 Recognized Environmental Conditions

ENVIRON identified the following "recognized environmental conditions" (RECs) in connection with the property.

- **Soil, Soil Gas and Groundwater Contamination.** The site has been used for various industrial purposes since the late 1940s. Prior operations have included a solid waste landfill (approximately 1947 to 1950s), a label tape and label tape puncher manufacturer (1963-1979) and a lithography and off-set printing manufacturer (1979-1990). These former industrial operations may have included the use and/or disposal of petroleum products, solvents, metals, and other chemicals. The historical handling, disposal, and use of these chemicals were not strictly regulated, controlled, or monitored during the site's early operational history (starting in approximately 1947). Previous environmental investigations at the site, including ENVIRON's investigation in 2013, indicate that elevated concentrations of metals, volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) are present in soil and groundwater at the site. PCBs are also present in soil. During ENVIRON's investigation in 2013, benzene, a VOC, was identified at elevated concentrations in soil gas and groundwater at the site. In addition, lead was also identified in soil and groundwater samples at concentrations above environmental regulatory agency health-based thresholds as well as at concentrations potentially above State and Federal hazardous waste thresholds.

- **Residual Contamination from Prior Environmental Remediation Activities.** Site records indicate that VOCs were previously used and stored on the site in drums and underground storage tanks (USTs) by Mike Roberts Color Production and Dymo Industries. The drum storage area and USTs were removed in the early 1990s. Site documents also indicate that there is residual contamination in soil from fill materials present on the site. Some limited environmental remediation activities were performed at the site from 1990 to 1994 under the oversight of the Alameda County Environmental Health (ACEH) Services Agency. These remediation activities consisted of UST removal, soil excavation in a few "hot spot" locations, groundwater monitoring and soil vapor extraction. On October 20, 1994, a deed notice (included in Appendix D.2) was issued for the site and signed by John Nady. The deed notice stated that:

1. If soil is excavated, it may be considered hazardous waste under state and federal law;

2. Groundwater from the site is not usable for domestic, irrigation or industrial purposes;

3. If future construction includes structures extending below the ground level (that being approximately 7 to 10 feet), groundwater generated during dewatering operations will require treatment prior to discharge;

4. An approved Health and Safety Plan will be required by the Alameda County Health Care Services Agency (ACHCSA) prior to any work requiring significant subsurface excavations; and

5. An environmental risk assessment may be required by the ACHCSA if any significant change in land use is proposed.

Subsequently in December 1996, following the completion of groundwater monitoring activities at the site, the ACEH Services Agency issued a conditional site closure letter (included in Appendix D.3) stating that further remediation and/or monitoring related to the former USTs removed from the site is not required but the recorded deed notice must be modified to include the following measures:

1. The shallow groundwater beneath the site shall not be used;
2. Appropriate Health and Safety plans shall be prepared prior to and followed during any activities involving exposure to pollution in soil or groundwater;
3. A health risk assessment shall be required if a change in land use, structural configuration or site activities are proposed such that more conservative scenarios should be evaluated; and
4. Potential vertical conduits between the shallow and deep aquifers shall not be created.

No information was found indicating that the deed notice had been modified to be consistent with the December 1996 conditional closure letter.

- **Open Spills, Leaks Investigation and Cleanup (SLIC) Case.** The site is listed on the SLIC database as being the focus of an open remediation case at the Alameda County Local Oversight Program (LOP). The site status is listed as “Open - Remediation”, with groundwater having been impacted by “other solvent or non-petroleum hydrocarbon”. The listing summarizes the site history from 1963 to the 1990s and references the ACEH website for a more complete historic case file. Based on the closure letter (included in Appendix D.3), it appears that while the Leaking Underground Storage Tank (LUST) case has been closed with a deed restriction, the SLIC case at the site remains open. The most recent regulatory action for this case, as listed on the California Regional Water Quality Control Board (RWQCB) Geotracker website, was a file review conducted in 2012.

1.2 Other Findings

Although not considered RECs based on currently available information, ENVIRON identified the following other findings. The term "other finding" is not defined by ASTM; rather, ENVIRON uses the term to connote areas of contingent risk that do not clearly fall within the definition of a REC.

- **Potential Migration of Contamination from Off-site Properties.** The site is located in the presumed downgradient direction from, and/or is adjacent to, several off-site properties listed with open database listings related to potential soil and groundwater contamination. These off-site properties include Metalco (listed on ENVIROSTOR database as needing evaluation), McGrath Steel (listed on LUST database as Open – Assessment), and the Richardson/Sybase and Mussallem/Sybase site (listed on the LUST database as Open – Assessment). The Richardson/Sybase and Mussallem/Sybase property is adjacent to the south of the site, and the other off-site properties are located within approximately 300 to 1,000 feet from the subject site. There has been no apparent regulatory impetus to investigate whether contamination from these properties has migrated to the subject site. If contamination associated with these off-site properties is found to have migrated onto the subject site, it is expected that any remedial activities would be the responsibility of the entities named in the listings or other designated responsible party and not the owner of 6701-6707 Shellmound Street (site).

De minimis conditions, as defined in Chapter 2.0, along with other site conditions observed during the site visit, are discussed within relevant sections of this report and are summarized in Chapter 6.0.

2 Introduction

2.1 Purpose

ENVIRON was retained by [Client counsel name] on behalf of AvalonBay Communities, Inc. to conduct a Phase I ESA of the Nady Systems property located in Emeryville, California. ENVIRON's assessment was conducted in connection with a potential purchase of the property. The purpose of the assessment was to identify RECs, which are defined in the ASTM Standard as:

> "The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not recognized environmental conditions."

2.2 Scope of the Assessment

ENVIRON completed the following tasks, consistent with the ASTM Standard, during its Phase I ESA of the property:

- A visit to the site by Dan Clark of ENVIRON on April 9, 2013 to observe the exterior and interior features of the site and to identify the uses and conditions specified in the ASTM Standard. In addition, ENVIRON observed the adjoining properties from the site or adjacent public thoroughfares. Photographs taken during the site visit are presented in Appendix A.
- An interview during the site visit with the following individuals (year employee started working at the site indicated in parentheses): John Nady (1990) and Toby Nady (1990). The aforementioned individuals are referred to herein as "facility personnel". The facility personnel interviewed by ENVIRON were identified by the Company as having good knowledge of the uses and physical characteristics of the site.
- A review of information contained in federal and state environmental databases, as obtained from the sources noted below:
  - A radius report prepared by Environmental Data Resources, Inc. (EDR, see Appendix B), which presents the results of searches of federal and state databases for the subject site, as well as properties near the subject site. The radius searched for each database, as well as the databases themselves, was selected in accordance with the ASTM Standard.

  - The United States Environmental Protection Agency's (USEPA's) Envirofacts database, which provides site information contained in multiple USEPA regulatory databases.
  - The USEPA's Enforcement and Compliance History Online (ECHO) database, which provides information on sites' enforcement and compliance history.
  - A review of files available on the Alameda County Department of Environmental Health (ACDEH).

- A review of standard historical sources (included as Appendix C) and local agency inquiries, as defined in the ASTM Standard. The following resources were reviewed:
  - Readily available historical sources, including (where available) historical topographic maps and aerial photographs, city directories, and Sanborn Maps, to develop a history of the previous uses of the site and surrounding area.
  - Historical and site-specific information obtained from the following local agencies: the Emeryville Building Department (Building Department), the Alameda County Assessor's Office (Assessor), and the Alameda County Fire Department (Fire Department).
  - E-mail correspondence with Ms. Yolanda Cole, a representative of ACDEH regarding the presence or absence of contamination at the site. Ms. Cole referred ENVIRON to the ACDEH online mapping tool which provides PDFs of all reports pertaining to the site that are in ACDEH's possession.
- A review of physical setting sources, as defined in the ASTM Standard, including:
  - The current USGS 7.5-minute topographic map that shows the area on which the site is located.
  - Geologic, hydrogeologic, or hydrologic sources as provided in the EDR report and in the previous environmental reports for the site, as listed below.
- A review of documents provided to ENVIRON by facility personnel, including correspondence with regulatory agencies. In addition, ENVIRON was provided with the following previous environmental assessment reports:
  - *Final Report/Tank Removal, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California*, prepared by LW Environmental Services, Inc., dated November 3, 1989.
  - *Phase I Review of Documents and Verification of Groundwater Flow Direction*, prepared by McLaren, Inc., dated November 21, 1989.
  - *Environmental Assessment, 6707 Bay Street, Emeryville, California*, prepared by SCS Engineers, Inc., dated January 30, 1990.
  - *Soil Vapor Recovery and Groundwater Remediation Systems,* prepared by SCS Engineers, Inc., dated February 26, 1990.
  - *Sump Sampling at 6707 Bay Street, Emeryville, California*, prepared by SCS Engineers, Inc., dated March 6, 1990.

  - *Interim Report One, 6707 Bay Street, Emeryville, California*, prepared by SCS Engineers, Inc., dated February 25, 1991.
  - *Letter Report, Nady Systems Inc. Site, 6707 Bay Street, Emeryville, California*, prepared by PES Environmental, Inc., dated December 9, 1991.
  - *Site Inspection, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California,* prepared by Bechtel Environmental, Inc. for EPA, dated October 22, 1992.
  - *Summary of Environmental Investigation/Remediation, 6707 Bay Street, Emeryville, California,* prepared by Subsurface Consultants Inc. (SCI), dated May 23, 1994.
  - Documentation of Deed Restriction*, Environmental Remediation Notice*, prepared by First American Title, dated October 20, 1994.
  - *Addendum No. 1, Work Plan and Revised Request for "No Further Action", Alternate Compliance Points Monitoring Program,* prepared by SCI, dated January 17, 1995.
  - *Groundwater Monitoring – May 1996 Event, Request for "No Further Action", 6707 Bay Street, Emeryville, California,* prepared by SCI, dated June 21, 1996.
  - Letter Indicating Preparation of Case Closure Letter*, Nady's Systems, Inc. (Former MRCP) – 6707 Bay Street, Emeryville, CA 94608.* Prepared by ACHCS, dated December 16, 1996.
  - *Draft Phase I Environmental Site Assessment, 6701-6707 Bay Street, Emeryville, California*, prepared by URS Corp., dated October 7, 2005.
  - *Final Report, Geotechnical Characterization, 6701 Shellmound Street/Bay Street, Emeryville, California,* prepared by URS Corp., dated October 7, 2005.

- A review of information provided by the user of this assessment, including information consistent with Appendix X3 of the ASTM Standard. Pertinent information, if any, is discussed in the appropriate sections of this report

This assessment was conducted in accordance with the methodology specified in ASTM Standard E1527-05, as agreed upon by ENVIRON and AvalonBay Communities in March 2013. Issues considered outside the scope of the ASTM Standard and this review include asbestos-containing materials, regulatory compliance, off-site waste management, radon, lead-based paint, lead in drinking water, wetlands, polychlorinated biphenyls (PCBs) in building materials, cultural and historic resources, ecological resources, endangered species, and high voltage power lines.

2.3 Significant Assumptions

In conducting this review, no significant assumptions were made.

2.4 Reliance and General Limitations

This report has been prepared for the exclusive use of AvalonBay Communities Inc. and may not be relied upon by any other person or entity without ENVIRON's prior express written permission.

The report is considered current only for a period of 180 days from the date of the site inspection. The conclusions presented in this report represent ENVIRON's best professional judgment based upon the information available and conditions existing as of the date of this report. In performing its assignment, ENVIRON must rely upon publicly available information, information provided by the client, and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to ENVIRON was accurate and complete. This review is not intended as legal advice, nor is it an exhaustive review of site conditions or facility compliance. ENVIRON makes no representations or warranties, expressed or implied, about the conditions of the site.

ENVIRON's scope of work for this assignment included collection and analysis of soil, groundwater, and soil gas samples at a specific number of locations on the site, as described in Section 6. As such, this review cannot rule out the existence of latent conditions in areas not sampled and including contamination not identified and defined by the data and information available for ENVIRON's review; however, this report is intended, consistent with normal standards of practice and care, to assist the client in identifying the risks of such latent conditions.

3 Site Description

3.1 Site Setting

Nady Systems, Inc. owns and operates an electronic sound equipment warehouse and office facility located at 6701-6707 Shellmound Street (previously known as 6701-6707 Bay Street) in Emeryville, Alameda County, California (the "site" "property" or the "facility"). The approximately 2.5-acre site is located approximately 0.5 mile north-northeast of downtown Emeryville, California (Figure 1).

According to the Assessor's Office, the assessor's parcel number (APN) for the site is 49-1490-002. The site is developed with two buildings, the first of which is an approximately 100,000-square-foot warehouse building located in the southern portion of the site. The two-story building consists of a slab-on-grade foundation with a steel frame and concrete pre-fabricated walls. The second building is a two-story office building located in the north-central portion of the site. The site also includes asphalt-paved parking lots located along the northeastern and northern perimeters of the building footprints. The site is bounded by Shellmound Street to the east, the Highway 80 Ashby Avenue off-ramp to the north and west, and Expressions College to the south.

The site is accessed from Shellmound Street at the eastern site boundary. The access road is surfaced with asphalt and leads to two asphalt-paved parking areas present in the western and eastern portions of the site, which are connected by a paved roadway located to the north of the office building. There are no on-site surface water bodies.

Table A provides an overview of physical setting and utility information for the site.

Table A: Physical Setting and Utility Information

Conditions	Source	Description
Topography		
Elevation (above mean sea level)	USGS topographic map (Oakland West, California, 1993)	Approximately 18 feet above mean sea level.
Topographic Gradient	USGS topographic map; visual observations	Relatively flat on-site. Regional topography slopes gently downward to the west toward San Francisco Bay.
Hydrology		
Surface Water Runoff	Visual observations	Percolates into the ground surface at unpaved areas, or runs off of site onto Shellmound Street where it enters catch basins that discharge to the municipal storm sewer system (which ultimately drains to the San Francisco Bay).
Nearest Surface Water Body	USGS topographic map; Visual observations	San Francisco Bay, located approximately 1/8-mile west of the site.

Table A: Physical Setting and Utility Information		
Conditions	**Source**	**Description**
Flood Plain	FEMA*; Facility personnel	Facility personnel reported no known occurrences of flooding at the site. The site is not located within a 500-year flood zone.
Wetlands	NWI*	There are no federally-designated wetlands on-site, although wetlands areas are present at the Berkeley Aquatic Park approximately 1/8-mile north of the site.
Geology and Hydrogeology		
Presumed Direction of Shallow Groundwater Flow	USGS topographic map; 1996 Groundwater Monitoring Report	The regional groundwater flow is inferred to follow the topography and flow to the west towards the San Francisco Bay. Site-specific groundwater flow direction to the northwest has been reported in prior groundwater monitoring reports.
Depth to Groundwater	2005 URS Phase II report, 2013 ENVIRON subsurface investigation	Groundwater was encountered at 6 to 7 feet below ground surface (bgs) during the 2005 URS Phase II. During ENVIRON's 2013 subsurface investigation, groundwater was encountered at 10 to 12 feet bgs.
On-site Wells	Facility personnel; Visual observations	At least five groundwater monitoring wells are present at the site (MW-1, MW-3, MW-7, MW-8, and MW-9). Other wells have historically been present at the site but were not found during the site reconnaissance.
Nearest Groundwater Supply Wells	EDR database report	Five wells are present within one quarter mile of the site; none are registered as public supply wells.
Geologic Conditions	Draft 2005 URS Phase I ESA; 2013 ENVIRON subsurface investigation	Fill materials to 17 to 20 feet depth including clayey gravel overlying silty fine sand and soft clays containing miscellaneous debris such as bricks, wood, rubber, metal, and pieces of glass and plastic. Underlying the fill materials is one to three feet of soft Bay Mud. Beneath the Bay Mud deposit is the Temescal Formation, an alluvial fan unit comprised of lenses of clayey gravel, sandy silty clay, and sand-clay-silt mixtures.
Site Utility Information		
Electricity Supplier	Facility personnel	PG&E
Natural Gas Supplier	Facility personnel	PG&E
Use of Fuel Oil for Building Heat	Facility personnel	No current or former use of fuel oil reported.
Water Supplier	Facility personnel; City personnel	East Bay Municipal Utility District (EBMUD).
Sanitary Sewer	Facility personnel	EBMUD
Septic Systems	Facility personnel	No current or former septic systems reported.

Table A: Physical Setting and Utility Information		
Conditions	**Source**	**Description**
Notes: FEMA = Federal Emergency Management Agency; NCSS = National Cooperative Soil Survey ; NWI = National Wetlands Inventory * - Source was provided in the EDR database report.		

3.2 Current Use of Property

Nady Systems employs approximately 20 individuals in the warehousing and distribution of electronic sound equipment for the music industry. The facility also conducts minor repairs of electronic sound equipment. Facility personnel did not know the appropriate Standard Industrial Classification (SIC) code to describe the site's operations. Based on the operations conducted and information provided by the facility, it appears that the most appropriate primary Standard Industrial Classification (SIC) code is 3651, *Audio and video equipment - household*; the corresponding North American Industry Classification System (NAICS) code is 334310, *Audio and Video Equipment*.[1] Operations at the site are conducted in one shift, five days per week. The major operations conducted at the facility consist of office operations, warehouse operations, shipping and receiving, minor repairs of microphones and other electronic sound equipment, and ancillary operations, as described in more detail below.

- *Office Operations* – the northern site building contains the company's corporate offices.
- *Warehouse Operations* – the southern site building contains warehouse space for the storage of electronic sound equipment. Limited packaging equipment is present but generally inactive.
- *Shipping and Receiving* – new products are received via truck delivery and are stored in the warehouse until they are shipped out to customers via truck.
- *Minor Repairs of Equipment* – defective or malfunctioning microphones and other electronic equipment are periodically repaired at technician work benches located in the warehouse building. The primary raw materials used for repairs include solder wire and small containers of isopropyl alcohol.
- *Ancillary Operations* – The facility performs packaging, shipping and administrative operations, none of which involve the use of significant quantities of chemicals. Nady Systems has a maintenance area with several wood- and metal-working machines that are inactive. Limited equipment maintenance-related materials, such as oils, lubricants, paints, paint thinner/remover, kerosene (for degreasing) and greases are present (generally in retail-sized containers) in the maintenance area but are not currently used. Various sanitizers and detergents are used by janitorial staff.

[1] A formal determination of the most appropriate SIC/NAICS code for the site was beyond the scope of ENVIRON's review.

According to facility personnel, Nady Systems' operations have remained generally consistent during its period of occupancy at the facility.

According to facility personnel, no chlorinated solvents are currently used at the facility, and use of such chemicals would not be expected based on the nature of current site operations. Facility personnel were not aware of any historical use of chlorinated solvents at the site; however, Nady Systems has only occupied the site since 1990, and information regarding chemical use prior to that time is limited to that described in previous environmental investigations and remediation reports.

3.3 Current Uses of Adjoining Properties

The property is located in a mixed industrial and commercial land use area. The nearest residential area is located approximately 700 feet south of the site. Based on discussions with facility personnel, ENVIRON's visual observations from the property boundary and public rights-of-way, and a limited review of publicly available information, a general determination of the current use of adjacent properties was developed, as described Table B.

Table B: Current Use of Properties Adjacent to the Site

Direction	Property/Land Use	ENVIRON's Observations
North	Highway 80 North Shellmound Street and Ashby Avenue off-ramps, followed by the Ashby Avenue underpass, California Historical Radio Society building, radio tower, Potter Street on-ramp, and Berkeley Aquatic park ponds.	No apparent exterior manufacturing or chemical storage operations were observed. No concerns were noted.
East	Railroad tracks, followed by Coulter Forge, a steel components manufacturer.	Bins, steel coil, and steel parts appear to be stored outside on the east and west sides of the Coulter Forge building. No specific concerns were noted.
South	Expressions College, a digital media arts college, followed by an office building and a public storage facility	No apparent exterior manufacturing or chemical storage operations were observed. No concerns were noted.
West	Highway 80 and open land that is part of the Ashby Avenue interchange area.	No apparent exterior manufacturing or chemical storage operations were observed. No concerns were noted.

Notes:

During the site visit, ENVIRON walked or drove by the borders of these properties that are shared with the subject site. ENVIRON did not enter the neighboring properties.

4 Review of Public Records and Other Information Sources

4.1 Environmental Regulatory Database Review

ENVIRON contracted with EDR in March 2013 to prepare of summary of listings in federal and state agency databases for the site and facilities within applicable radii of the property, as specified by the ASTM standard.[2] A copy of the EDR report is presented in Appendix B.

4.1.1 Database Review for Site

ENVIRON reviewed the results of the state and federal environmental database searches performed by EDR (see Appendix B) and also reviewed information available in the DTSC ENVIROSTOR database. The site is listed on eight environmental databases, as discussed in Table C.

Table C: Summary of Environmental Database Listings for the Site

Listing Name or Address	Database	Comments	Reference for Further Discussion
Databases Related to Potential Site Conditions			
Mike Roberts Color Production 6707 Bay Street	Leaking Underground Storage Tank (LUST)	The site is listed on the LUST database due to reported releases from USTs. The database indicates that the LUST case (case # 414) has been closed. No further information is provided.	Section 4.4; Appendix E
Mike Roberts Color Production 6707 Bay Street	Historical Cortese (HIST CORTESE)	The site is listed on the Historical Cortese database, which is an indicator database for historical groundwater impacts. No further information is provided.	Section 4.4

[2] EDR uses the term “radii” to refer to the ASTM terminology “approximate minimum search distance” in the environmental database report.

Table C: Summary of Environmental Database Listings for the Site			
Listing Name or Address	**Database**	**Comments**	**Reference for Further Discussion**
Mike Roberts Color Production 6707 Bay Street	Spills, Leaks, Investigations and Cleanups (SLIC)	The site is listed on the SLIC database as being the focus of an open remediation case at the Alameda County Local Oversight Program (LOP). The site status is listed as "Open - Remediation", with groundwater having been impacted by "other solvent or non-petroleum hydrocarbon". The listing summarizes the site history from 1963 to the 1990s and references the Alameda County Environmental Health website for a more complete historic case file. Based on the closure letter (included in Appendix E), it appears that while the LUST case has been closed with a deed restriction, the SLIC case at the site remains open. The most recent regulatory action for this case, as listed on the RWQCB Geotracker website, was a file review conducted in 2012.	Section 4.4; Appendix E
Mike Roberts Color Production 6707 Bay Street	Alameda County Contaminated Sites (Alameda County CS)	The site is listed on the Alameda County CS database with several status listings, including "Leak Confirmation", "Preliminary Site Assessment Underway", "Pollution Characterization", and "Remedial Action Underway". No further information is provided. Based on the letter indicating site closure (included in Appendix E), it appears that while the LUST case has been closed with a deed restriction, the SLIC case remains open and is related to the listing on the Alameda County CS database.	Section 4.4; Appendix E
Mike Roberts Color Production 6707 Bay Street	ENVIROSTOR	The site is listed on the ENVIROSTOR database as a historical site not currently assigned to the Department of Toxic Substances Control (DTSC). The database indicates the site has been referred to another agency.	Section 4.4
Mike Roberts Color Production 6707 Bay Street	Comprehensive Environmental Response, Compensation, No Further Remedial Action Planned (CERC-NFRAP)	The site is listed on the CERC-NFRAP database. After discovery in 1989 and preliminary assessment in 1990, the site was issued a priority level of "Low priority for further assessment". After a site inspection in 1992, the site was added to the NFRAP list as a site that does not qualify for the National Priorities List (NPL) and was archived.	Section 4.4

Table C: Summary of Environmental Database Listings for the Site			
Listing Name or Address	**Database**	**Comments**	**Reference for Further Discussion**
Databases Related to Regulatory Compliance			
Mike Roberts Color Production 6701 & 6707 Bay Street	HAZNET	The site is listed on the HAZNET database as having disposed of hazardous wastes in 1993 and 1996. Wastes included on the database entry include organic solids (1993), aqueous solutions with organic residues (1996), and contaminated soil from a site cleanup (1996). No further information is provided.	No further discussion necessary
Mike Roberts Color Production 6707 Bay Street	Emissions (EMI)	The site is listed on the EMI database as having had an air emissions permit from Bay Area Air Quality Management District (BAAQMD) in 1987. The listing indicates that the site's emissions permit was for 5 tons per year of total organic hydrocarbon gases and 5 tons per year of reactive organic gases. No further information is provided.	No further discussion necessary
Esselte Pendaflex Dymo Div 6701 Bay Street	Resource Conservation and Recovery Act – Small Quantity Generator (RCRA-SQG)	The site is listed on the RCRA-SQG database as a small quantity generator of hazardous waste in 1996. As the listing is under the name of a historical site occupant, it is likely the waste generated was related to remediation activities. The listing also includes a historical generator listing for Esselte Pendaflex Dymo Div as a large quantity generator of hazardous waste in 1980.	No further discussion necessary.
Esselte Pendaflex Dymo Div 6701 Bay Street	Resource Conservation and Recovery Act Information System (RCRAInfo/FINDS)	The site is listed on the FINDS database as a site that has generated hazardous waste. No further information is provided.	No further discussion necessary

4.1.2 Database Review for Surrounding Properties Within ¼ Mile of the Site

There are several listings in the EDR report for off-site facilities located within applicable ASTM search radii. Several of these listings (e.g., hazardous waste generators, registered underground storage tanks [USTs]), by themselves, are not necessarily indicative of an environmental concern, and these listings are therefore not discussed herein. A number of sites appear on databases indicative of potential contamination concerns (e.g., National Priorities List [NPL], Leaking Underground Storage Tank [LUST], State Hazardous Waste Site [SHWS]). Of these latter facilities, only those that are located adjacent to or upgradient of (but not necessarily adjacent to) the property and have not been issued regulatory closure for all listings of concern are discussed in this section.[3] This analysis was based on the assumption that a hazardous

[3] Shallow groundwater beneath the site likely flows to the south and west, assuming the gradient follows surface topography, and based on groundwater elevation measurements reported in 1996 monitoring report (SCS 1996).

material released to the subsurface generally does not migrate laterally within the unsaturated soil for a significant distance, although a hazardous material can migrate in groundwater in a generally downgradient direction; however, there are limitations to this interpretation. Listings for surrounding properties are discussed in Table D.

Table D: Summary of Listings with Open/Active Status on Databases Potentially Indicative of Contamination for Upgradient or Adjacent Properties within ¼ Mile of the Site

Listing Name or Address	Database	Comments	Reference for Further Discussion
Mussallem/Sybase and Richardson/Sybase 6601 and 6603 Bay Street	LUST, Alameda County CS, HIST CORTESE	The Mussallem/Sybase and Richardson/Sybase property is located at 6601 and 6603 Bay Street, which appears to be adjacent to the south of the site, in a down- or cross-gradient direction. The LUST database indicates that the case is Open – Site Assessment. A case summary indicates that prior to the 1930s the site was part of San Francisco Bay and between the 1930s and 1950s the site was part of the City of Emeryville municipal waste landfill. Three USTs were removed in 1989. During the removal, free-phase petroleum product was observed in the excavation. Soil borings have been advanced at the site and groundwater monitoring has been performed using existing monitoring wells. The most recent site investigation report, dated July 2012, indicates that the lateral extent of separate-phase hydrocarbons (SPH) and related constituents in soil and groundwater has been characterized. A sheen on groundwater was observed near the former USTs but the affected area is limited in extent and bounded by sampling points at monitoring wells and soil borings. In addition, the concentrations and extend of VOCs in groundwater have been characterized, and VOCs are below MCLs with the exception of benzene. Benzene concentrations in MW-5 and MW-7 have decreased over time to below detection limits, and all benzene concentrations in groundwater appear to be stable and are below the ESL for vapor intrusion from groundwater to indoor air for commercial/industrial properties of 1,800 ug/L. Impacts to soil by total petroleum hydrocarbons (TPH), VOCs, and PAHs have been characterized, and VOCs and PAH concentrations are generally below commercial/industrial ESLs. The report includes a request for closure under the 2012 SWRCB Low-Threat UST Closure Policy Criteria.	Section 7.1.3

Table D: Summary of Listings with Open/Active Status on Databases Potentially Indicative of Contamination for Upgradient or Adjacent Properties within ¼ Mile of the Site

Listing Name or Address	Database	Comments	Reference for Further Discussion
Metalco 1475 67th Street	ENVIROSTOR	The Metalco site is located less than 1/8 mile to the east-northeast of the site, in a potentially upgradient direction. Metalco is listed on the DTSC's ENVIROSTOR database as being a Tiered Permit site. No releases have been documented as having occurred at the facility, however the status is listed as "Inactive – needs evaluation". The facility provided information to DTSC in 1997, including a map of its operations. The property uses dry and liquid chemicals, some of which were not identified, to treat metal. Various tanks and sumps are listed on the facility map in the documents provided to DTSC.	Section 7.1.3
Diesel Fuel Tank Area Former 722 Folger Avenue	SLIC, LUST, HIST CORTESE	The property is located less than 1/8 mile to the north-northeast of the site, in a potentially upgradient direction. It is listed on the SLIC database as being open, however it has been inactive since June 4, 2009. In a second listing with the same name and address, the SLIC database lists the case as being closed as of December 1996 and the LUST database lists the status as "Pollution Characterization". However, upon review of the Geotracker files for this case, no open or closed LUST case was found. Due to the "Open – Inactive" status date of 2009 as compared to the "Case Closed" status date of 1996, it appears that the case may be open. However it does not appear likely to pose a significant threat to subsurface conditions at the site.	No further discussion necessary
Emeryville Ashby (Point Emery) West end of Ashby Avenue	Solid Waste Landfill/Landfill (SWF/LF)	The former Point Emery property is located to the west of the site at the Ashby Avenue and Highway 80 interchange. The main portion of this property is located in a downgradient direction from the site, however it is likely adjacent to the site and portions of the landfill may underlie the site. The database indicates that a solid waste landfill was present in this area, and was closed prior to regulations being in place for this type of facility.	Sections 4.2.1 and 7.1.3

Table D: Summary of Listings with Open/Active Status on Databases Potentially Indicative of Contamination for Upgradient or Adjacent Properties within ¼ Mile of the Site

Listing Name or Address	Database	Comments	Reference for Further Discussion
Weatherford BMW/Nissho Irwai Naval Industrial Reserve Plant Berkeley 735 Ashby Avenue	Weatherford BMW listing: LUST, SWEEPS UST, AST, HIST CORTESE, RCRA-SQG, FINDS Naval Industrial Reserve Listing: Formerly Used Defense Sites (FUDS)	The Weatherford BMW property is located less than 1/8 mile to the north-northeast of the site, in a potentially upgradient direction but on the opposite side of the Ashby Avenue underpass from the site. The LUST case associated with the Weatherford BMW facility is listed as Open. The Geotracker case file for the property indicates that site assessment began as of July 1993. The potential contaminants of concern were waste oil, motor oil, hydraulic oil, and lubricating oil. The case lists affected media as soil only. Due to the type of case and its position on the opposite side of the Ashby Avenue underpass, the LUST listing at this property is not considered to pose a significant threat to subsurface conditions at the site. The FUDS database indicates that the property was formerly used as a Naval Industrial Reserve, which the US Navy used as a steel forge for manufacturing steel parts. The database includes a summary of historical environmental issues at the site, including six USTs removed between the 1960s and 1988, possible leaks from inactive petroleum pipelines, allegations of illegal PCB dumping by a former lessee. The database indicates that there are no current hazards identified at the property resulting from its former use as the Naval Industrial Reserve.	No further discussion necessary

Table D: Summary of Listings with Open/Active Status on Databases Potentially Indicative of Contamination for Upgradient or Adjacent Properties within ¼ Mile of the Site

Listing Name or Address	Database	Comments	Reference for Further Discussion
McGrath Steel 6655 Hollis Street	LUST, HIST UST, SWEEPS UST, HIST CORTESE, CA FID UST, Alameda County CS	The McGrath Steel property is located between 1/8 and ¼ mile to the east of the site, in a potentially upgradient direction. The LUST database lists the site as Open – Assessment & Interim Remedial Action. Two USTs containing diesel and gasoline were removed in 1996 and contamination was noted, affecting groundwater. Groundwater sampling at the facility has indicated elevated gasoline, benzene, and methyl-tert butyl ether (MTBE). The most recent subsurface investigation report (reviewed on Geotracker) indicates maximum gasoline concentrations in soil and groundwater of 2,000 milligrams per kilogram (mg/kg) and 160,000 micrograms per liter (ug/l), respectively, in the vicinity of former fuel USTs. Samples collected from the furthest downgradient soil boring (B-19) indicated gasoline ranging from 240 to 360 mg/kg and benzene ranging from 0.12 to 0.31 mg/kg in soil. Groundwater samples from the same location indicated gasoline at 5,000 ug/l and benzene at 6.5 ug/l. Other detected compounds at this location include petroleum hydrocarbons as diesel and mineral spirits, ethylbenzene, xylenes, and polycyclic aromatic hydrocarbons (PAHs) naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. The report proposes the installation of three groundwater monitoring wells, including one downgradient of boring B-19. Based on the concentrations reported in samples from B-19, groundwater from this property that is impacted with elevated petroleum hydrocarbons, VOCs, and PAHs may have reached the site.	Section 7.1.3

The EDR report indicates that poor or inadequate address information was available for several sites located in the vicinity of the property; therefore, these sites could not be readily mapped by EDR. Because the location of these sites with respect to the property could not be evaluated, ENVIRON is limited in its ability to express an opinion regarding the potential for impact to the property from these sites. It was beyond the scope of this review to accurately locate each of the unmapped sites identified by EDR; however, ENVIRON reviewed the list of unmapped sites and verified that none appeared to be adjacent to the subject site.

4.2 Historical Uses of the Site and Adjacent Sites

4.2.1 Past Uses of the Site

The site was part of San Francisco Bay until the land was reclaimed, beginning in 1947, by gradually filling the low-lying marsh along the bay margin. During this time period, a municipal landfill was operated on a portion of the site and on the properties to the south. The current site buildings were constructed in approximately 1963. From 1963 to 1979, the site was operated by Dymo Industries, Inc, a label tape and label tape puncher manufacturer owned by Esselte Pendeflex Corporation. Dymo Industries reportedly used virgin methyl isobutyl ketone (MIBK) and methyl ethyl ketone (MEK or 2-butanone) in their processes. Chemicals used in Dymo Industries' processes were stored in three USTs at the approximate location shown on Figure 2 (Subsurface Consultants, Inc. 1994).

From 1979 to 1989, Mike Roberts Color Productions (MRCP) operated at the site. MRCP manufactured and printed color postcards and expanded into color printing, lithography and off-set printing operations. These activities produced waste materials including inks, solvent cleaning compounds and color pigments. These materials were stored in 55-gallon drums that were placed in a drum storage area located at the west side of the site, as shown on Figure 2. The drum storage area was paved with asphaltic concrete. The drums were placed on metal plates which covered the asphaltic concrete. MRCP was apparently unaware of the existence of the USTs located on the site. The USTs were apparently not used by MRCP. The USTs were removed from the site in October 1989 (Subsurface Consultants, Inc. 1994).

Nady Systems, Inc., the current property owner, purchased the property from MRCP in 1990. Nady Systems, Inc. is a distributor and packager of communication systems, such as wireless microphones. Nady Systems, Inc. initially occupied only the office building at the site, and leased the warehouse building to a ceramic tile distributor. Nady Systems eventually expanded its operations to include the warehouse building. According to facility personnel and the 1994 site summary report by SCI, Nady Systems, Inc. does not use substantial quantities of chemicals, nor did the tile distributor who formerly leased the warehouse building at the site.

A summary of ENVIRON's key observations from the available historical sources is presented in Table E.

Table E: Summary of Key Observations from Historical Sources for the Subject Site	
Historical Source	**Key Observations Regarding Site History**
Sanborn Maps (1903, 1911, 1950, 1952, 1967, 1969, 1980)	The 1903, 1911, and 1950 maps depict the site as part of San Francisco Bay. The Southern Pacific Railroad is present on the land to the east of the site. To the south of the site is a wharf or pier that is labeled as a salt water pump house on the 1950 map. Businesses to the east of the railroad tracks include a lumber yard, chemical works (labeled "Glue and Gelatine"), and a tannery & wool pullery. On the 1952 map the site appears to be mostly filled in with the exception of a narrow slough where the salt water pump house remains. Businesses to the east of the railroad tracks include Coulter Steel and Forge Co. and Chamberlin Co (insulation and weather stripping manufacturing). On the 1967 and 1969 maps, the site is occupied by Dymo Industries Inc. and the adjacent site to the south is occupied by a sugar and liquor warehouse. Coulter Steel and other metalworking and warehouse companies are shown to the east of the railroad tracks. The Highway 80 Ashby Avenue interchange roadways appear to have been completed. The site and surroundings are not depicted on the 1980 map.
Aerial Photographs and Satellite Imagery[1] (1939, 1946, 1958, 1968, 1974, 1984, 1993, 1999, 2005, 2009, 2010)	In 1939 the site appears to be part of San Francisco Bay, between Highway 80 to the west and industrial areas to the east. It appears that landfill activities are ongoing in the aquatic area to the south. In 1946 additional landfilling activities are visible to the south and possibly within the southern site boundary. In 1958 the area has been completely filled and the Highway 80 Ashby interchange has been completed. A large building is visible to the south, and the site is vacant. On the 1968 map, the site buildings are present, as well as another building adjacent to the south of the warehouse building on the site. The site appears similar in subsequent photographs, with residential condominiums appearing to the south in 1993.
Topographic Maps (1895, 1915, 1948, 1949, 1959, 1968, 1973, 1980, 1993)	The site appears as part of San Francisco Bay until the 1948 map, on which the site is depicted as being to the south of the Ashby Avenue interchange, on the boundary between land and aquatic areas to the south. On the 1949 map, the site is depicted as being fully filled in but without buildings. Surrounding areas contain large buildings and other development. On the 1959 map, a large building is depicted to the south of the site, with a rail spur near the southern site boundary, and other industrial buildings have been added. On the 1968 map, site buildings are present. The 1973 and 1980 maps are generally similar to the 1968 map. On the 1993 map, individual buildings are no longer depicted; rather the entire area is shaded gray to represent urban development.
City Directory Abstracts (1920 through 2012)	The site is identified as Nady Systems, Inc. in 2006, 2007, and 2012. Prior site occupants are not identified in the document. Adjoining and nearby properties have primarily been occupied by various commercial and industrial operations since the 1920s.

Table E: Summary of Key Observations from Historical Sources for the Subject Site	
Historical Source	**Key Observations Regarding Site History**
Additional Sources 1994 Site Summary Report prepared by Subsurface Consultants, Inc.	The summary report describes historical usage of the site buildings as discussed in Section 4.2.1. The report also describes the removal of USTs from the site in 1989; and various environmental concerns at the site including the former drum storage area, drainage ditch area, former sump area, former UST area, landfill materials present in the subsurface, and impacts to groundwater quality. Information about prior subsurface investigations into these issues is summarized, including a description of a soil vapor and groundwater extraction and treatment system that was installed at the site to remediate VOC impacts from the former UST area. The system operated for six to seven months in 1990 and 1991. The system was decommissioned in 1993 in accordance with a work plan approved by Alameda County Health Care Services Agency.

4.2.2 Past Uses of Adjacent Sites

The properties in the vicinity of the site have been used for industrial purposes since as early as the 1920s. Notable operations on surrounding properties to the east (across Shellmound Street and the rail road right-of-way) have included a steel forge, lumber yard, tannery, various metalworking facilities, and warehouses. Surrounding properties to the south have included various industrial operations as well as a former municipal landfill. Adjacent areas to the north and west have historically been used as roadways and highway interchange areas.

4.3 Review of Local and State Agency Information

ENVIRON visited or otherwise contacted local governmental agencies and regulatory bodies for information relating to the site. An overview of the findings of this review is presented in Table F.

Table F: Local Agency Information for the Site	
Agency Contacted / Document Reviewed	**Information Obtained**
Alameda County Assessor	Documents reviewed on the Alameda County Assessor's website in March 2013 included a parcel map and tax records. The APN of the site is 49-1490-002.
Alameda County Fire Department	ENVIRON contacted Doug Conover of Alameda County Fire Department (which is contracted by the City of Emeryville) in March 2013 and left a message inquiring as to whether the Fire Department maintains records pertaining to hazardous materials at the site. ENVIRON called again in June 2013 and was not able to leave a message. As of the date of this report, a response had not been received from the Fire Department.

Table F: Local Agency Information for the Site	
Agency Contacted / Document Reviewed	**Information Obtained**
Alameda County Environmental Health	ENVIRON requested records from the Alameda County Environmental Health Department (ACEH) in March 2013 for information regarding soil or groundwater investigations, USTs, LUSTs, hazardous materials inspections, or violations/permits for the property. ACDEH indicated that all records pertaining to the site are available at the ACDEH website and online database. ENVIRON downloaded the available documents from the website. Records contained various site investigation reports, monitoring reports, and correspondence pertaining to the 1989 UST closure, investigation of other environmental issues at the site, the soil vapor and groundwater remediation system at the site, closure of the LUST case for the site, and a land use deed restriction. These documents are further discussed in Section 4.4.

4.4 Previous Environmental Assessments and Activities

Based on a review of historical site documents and interviews with facility personnel, there were several environmental assessments, sampling investigations, groundwater monitoring events and remediation activities were completed at the site. The environmental sampling and monitoring data collected during these prior sampling events are summarized in Appendix D.4 and the sample locations shown on Figure 3. The prior environmental assessment, sampling, and remediation activities are discussed below.

UST Closure

- *Final Report/Tank Removal, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California*, prepared by LW Environmental Services, Inc., dated November 3, 1989.

On October 2, 1989, the contents were removed from three USTs at the site. Approximately 1,075 gallons of liquid containing methyl ethyl ketone was pumped into a tank truck and delivered to a treatment and disposal facility. On October 5, 1989, the three tanks were purged with dry ice, removed using a backhoe, and transported off site for proper disposal. Following tank removal, a soil sample was collected from both the east and west ends of each tank excavation for a total of six soil samples. Tank removal and soil sampling was overseen by ACHCS. Confirmation soil samples indicated the presence of TPH as gasoline (up to 700 mg/kg) and diesel (up to 460 mg/kg), as well as the VOCs benzene (up to 6.4 mg/kg), toluene (up to 0.06 mg/kg), ethylbenzene (up to 0.11 mg/kg), and xylene (up to 7.5 mg/kg). 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene were also detected (up to 2.4 mg/kg). Laboratory results indicated that MIBK created interference in the samples; however no MIBK results are presented (LW Environmental Services 1989).

Subsurface Investigations, Remediation and Monitoring

- *Environmental Assessment, 6707 Bay Street, Emeryville, California,* prepared by SCS Engineers, Inc., dated January 30, 1990.

- *Sump Sampling at 6707 Bay Street, Emeryville, California,* prepared by SCS Engineers, Inc., dated March 6, 1990.
- *Soil Vapor Recovery and Groundwater Remediation Systems,* prepared by SCS Engineers, Inc., dated February 26, 1990.
- *Interim Report One, 6707 Bay Street, Emeryville, California,* prepared by SCS Engineers, Inc., dated February 25, 1991.
- *Letter Report, Nady Systems Inc. Site, 6707 Bay Street, Emeryville, California,* prepared by PES Environmental, Inc., dated December 9, 1991.
- *Groundwater Monitoring – May 1996 Event, Request for "No Further Action", 6707 Bay Street, Emeryville, California,* prepared by SCI, dated June 21, 1996.

Subsurface soil and groundwater sampling were conducted in 1990 and 1991 and monitoring wells MW-7 and MW-8 were installed. Site assessment activities included investigation of the former UST area, former drum storage area, former sump, and drainage ditch at the west end of the site. Results indicated the presence of MIBK and TPH in soil and groundwater at the former UST area, as well as oil and grease, TPH, metals, VOCs, SVOCs, and PCBs in soil at other locations on the site. Most of the chemicals found in areas outside of the UST area were generally attributed to the former municipal landfill that historically encompassed at least a portion of the site property. Remediation systems were installed in the UST area using MW-7 and MW-8 as extraction wells, which were connected to carbon filtration vessels. Soil vapor extraction was also performed in the UST area using two vapor extraction wells connected to carbon filtration vessels, as well as two passive recharge wells. Remediation systems operated for approximately six months in 1990 and 1991. The vapor extraction system was reported by SCS to have reduced the total VOC concentrations in soil to less than 10 mg/kg in the UST area. The groundwater extraction and treatment system was reported by PES to have removed approximately three pounds of MIBK (PES 1991). Groundwater monitoring activities continued until 1996. A copy of the final groundwater monitoring data report and related contour map are attached in Appendix D.1a and D.1b.

Land Use Controls and SLIC Case Closure

- Documentation of Deed Restriction*, Environmental Remediation Notice*, prepared by First American Title, dated October 20, 1994.
- *Work Plan and Revised Request for "No Further Action" Alternative Compliance Points Monitoring Program, 6707 Bay Street, MIBK Tank Area, Emeryville, California*, prepared by SCI, dated October 18, 1994.
- *Addendum No. 1, Work Plan and Revised Request for "No Further Action", Alternate Compliance Points Monitoring Program,* prepared by SCI, dated January 17, 1995.
- Letter Indicating Preparation of Case Closure Letter*, Nady's Systems, Inc. (Former MRCP) – 6707 Bay Street, Emeryville, CA 94608.* Prepared by ACHCS, dated December 16, 1996.

A deed restriction recording five conditions for further development of the site was recorded in October 1994. On October 20, 1994, the deed notice was issued for the site and signed by John Nady. A copy of the deed notice is attached in Appendix D.2. The deed notice stated that:

1. If soil is excavated, it may be considered hazardous waste under state and federal law;

2. Groundwater from the site is not usable for domestic, irrigation or industrial purposes.

3. If future construction includes structures extending below the ground level (that being approximately 7 to 10 feet), groundwater generated during dewatering operations will require treatment prior to discharge;

4. An approved Health and Safety Plan will be required by the Alameda County Health Care Services Agency (ACHCSA) prior to any work requiring significant subsurface excavations; and

5. An environmental risk assessment may be required by the ACHCSA if any significant change in land use is proposed.

Following groundwater monitoring in 1993 and 1994, requests for "No Further Action" were submitted in 1994, and another request for "No Further Action" was submitted in 1995. After additional groundwater monitoring in 1995 and 1996, ACHCSA prepared a conditional closure letter dated December 16, 1996. The conditional closure letter indicated that modifications and additional conditions were to be added to the recorded deed restriction and that a case closure summary was to be submitted for approval by the State of California Regional Water Quality Control Board (RWQCB). The December 16, 1996 letter is attached in Appendix D.3. The modifications and additional conditions listed in the letter included:

1. The shallow groundwater beneath the site shall not be used.
2. Appropriate Health and Safety plans shall be prepared prior to and followed during any activities involving exposure to pollution in soil or groundwater.
3. A health risk assessment shall be required if a change in land use, structural configuration or site activities are proposed such that more conservative scenarios should be evaluated.
4. Potential vertical conduits between the shallow and deep aquifers shall not be created.

No information was found indicating that the deed notice was modified to include the conditions listed in the December 1996 letter or that the RWQCB had approved the conditional closure by the ACHCSA.

<u>Other Environmental Reports</u>

– *Phase I Review of Documents and Verification of Groundwater Flow Direction*, prepared by McLaren, Inc., dated November 21, 1989.

- *Site Inspection, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California,* prepared by Bechtel Environmental, Inc. for EPA, dated October 22, 1992.
- *Summary of Environmental Investigation/Remediation, 6707 Bay Street, Emeryville, California,* prepared by Subsurface Consultants Inc., dated May 23, 1994.
- *Draft Phase I Environmental Site Assessment, 6701-6707 Bay Street, Emeryville, California*, prepared by URS Corp., dated October 7, 2005.
- *Final Report, Geotechnical Characterization, 6701 Shellmound Street/Bay Street, Emeryville, California,* prepared by URS Corp., dated October 7, 2005.

Various document reviews and site summaries were prepared from 1989 to 1994, including a site inspection conducted on behalf of EPA in 1992. A draft Phase I ESA was prepared for the site in 2005 for Trammel Crow Residential for a potential purchase of the site, and while the conclusions section was incomplete, the report tentatively identified several RECs including the three former USTs and residual VOC contamination in groundwater, subsurface soil contamination identified throughout the site, groundwater contamination by TPH from unknown sources, former monitoring wells and sumps with unknown status located throughout the site, and the presence of potential asbestos-containing materials (ACMs) in building materials at the site.

4.5 User-Provided Information

ENVIRON provided AvalonBay Communities, Inc. with a User Questionnaire (consistent with Appendix X3 of the ASTM Standard) that requested information relating to environmental liens, AULs, specialized knowledge of the property, property value diminution, chain-of-title, or any other commonly known or obvious indications of site contamination, that was not otherwise provided to ENVIRON. The user did not provide any information that was not otherwise obtained and reviewed by ENVIRON.

5 Site Reconnaissance

5.1 Methodology and Limiting Conditions

ENVIRON conducted a visit to the site on April 9, 2013. During the site visit, observations of both the interior of the buildings and exterior portions of the site were made to evaluate if any RECs, as defined in Chapter 2, are present. ENVIRON did not observe the roof of the buildings. Several of the mezzanine-level rooms in the office and warehouse buildings were off-limits during the site reconnaissance due to the potential presence of mold related to water intrusion issues. Some unused areas of the warehouse building were without power and/or lights and ENVIRON did not fully observe these areas. Lastly, several rooms in the office and warehouse buildings, including the maintenance area in the warehouse building, contained numerous boxes and other stored items, which prevented ENVIRON from observing the floor and/or walls of these areas. The contents of stored boxes and other items in these areas were not inspected.

5.2 General Site Setting and Observations

ENVIRON made observations concerning all of the interior and exterior issues specified in Sections 9.4.2 through 9.4.4 of the ASTM E1527-05 Standard. The presence or absence of each issue of environmental interest or concern is noted in Table G. Additional information regarding observed and historical items is provided in the sections following the table.

Table G: Summary of Site Reconnaissance Observations

Issue	ASTM Section	Observation
Interior and Exterior Issues		
Current use(s) of the property	9.4.2.1	See Section 3.3
Past use(s) of the property	9.4.2.2	See Section 4.2
Hazardous substances and petroleum products used, treated, stored, disposed of, or generated on the property in connection with identified present or past uses	9.4.2.3	**Present** (see Section 5.2.1)
Storage tanks: Underground storage tanks (fill ports, vent pipes, manholes) Aboveground storage tanks	9.4.2.4	(see Section(s) 5.2.2) Formerly Present Absent
Odors (strong, pungent or noxious)	9.4.2.5	Absent
Pools of liquid, standing surface water or sumps	9.4.2.6	Absent
Drums of hazardous substances or petroleum products (five-gallon, 55-gallon or totes)	9.4.2.7	**Present** (see Section 5.2.1)
Hazardous substance and petroleum product containers (not necessarily in connection with identified uses)	9.4.2.8	Absent
Unidentified substance containers suspected of containing hazardous substances or petroleum products	9.4.2.9	Absent

Table G: Summary of Site Reconnaissance Observations		
Issue	**ASTM Section**	**Observation**
Polychlorinated biphenyls (PCBs) Electrical equipment on-site (e.g., transformers, capacitors) Electrical equipment known or likely to contain PCBs Hydraulic equipment on-site (e.g., elevators, truck dock lifts) Hydraulic equipment known or likely to contain PCBs	9.4.2.10	(see Section 5.2.3) **Present** Possible **Present** Possible
Interior Issues		
Heating/cooling systems	9.4.3.1	Present (see Section 5.2.4)
Stains or corrosion on interior floors, walls or ceilings (except for staining from water)	9.4.3.2	Present (see Section 5.2.5)
Floor drains and interior sumps	9.4.3.3	Not observed
Exterior Issues		
Pits, ponds or lagoons on property or adjacent sites	9.4.4.1	Absent
Stained soil or pavement	9.4.4.2	Absent
Stressed vegetation (from other than insufficient water)	9.4.4.3	Absent
On-site solid waste disposal; areas apparently filled or graded by non-natural causes; or mounds or depressions suggesting solid waste disposal	9.4.4.4	Not observed during site visit but otherwise known to be present (see Section 7.1.1)
Wastewater or other liquid (including storm water) or any discharge into a drain, ditch, underground injection system or stream on or adjacent to the property	9.4.4.5	**Present** (see Section 5.2.6)
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)	9.4.4.6	**Present** (see Section 5.2.7)
Septic systems or cesspools	9.4.4.7	Absent
Notes: Observations noted in this table and discussed further below are based on information obtained during the site visit and from a review of the sources summarized in Section 4. See the ASTM Standard for a detailed description of the issues included in each referenced ASTM section. Per the ASTM Standard, fluorescent light ballasts likely to contain PCBs do not need to be noted. N/A – Not applicable		

5.2.1 Hazardous Substances and Petroleum Products

Operations at the site are not chemically intensive. The primary chemicals used at the site include maintenance-related materials such as sanitizers and detergents. In addition, Nady Systems occasionally uses oils, lubricants, and greases for packaging equipment. A five-gallon

container of kerosene was observed in the maintenance area of the warehouse. Lastly, equipment repair and servicing sometimes involves the use of solder wire.

Several dedicated materials storage areas are maintained at the site:

- Small retail-sized containers (up to one gallon) of paints, oils, and sanitizers/detergents, as well as one five-gallon container of kerosene and several five-gallon containers of paint, are stored in the warehouse maintenance area.
- Small retail-sized containers of sanitizers/detergents, polyurethane, paint thinner, and paint/epoxy remover, as well as several five-gallon containers of paint, are stored in a janitor office/storage room in the warehouse.
- In exterior areas, ENVIRON observed four 55-gallon drums stored on pavement at the southwest corner of the warehouse building. One of the drums was missing its lid and appeared to contain soil. Facility personnel indicated that these drums were left behind after a previous environmental investigation, but they did not know how long the drums had been stored there.

Facility personnel were not aware of any significant spills or releases of materials at chemical storage areas. ENVIRON did not observe evidence of spills or uncontrolled releases from these storage areas, other than minor floor staining in the warehouse maintenance area.

5.2.2 Underground Storage Tanks

Three former USTs operated by Dymo Industries between approximately 1963 and 1979 were located outside the northeast corner of the warehouse building. According to previous environmental assessments, the USTs were installed in the early 1960s and were used for the storage of MEK and MIBK. The USTs were discovered in 1989 by MRCP (which did not use the tanks and were not aware of their existence) and excavated by LW Environmental Services in October 1989. At the time of closure, the tanks were found to be damaged. The site is listed on the LUST database. The LUST case for the site has been closed, however it appears that a SLIC case for the site remains open. Further discussion is provided in Section 4.1.1 and Section 4.4.

5.2.3 Polychlorinated Biphenyls (PCBs)

Facility personnel were not aware of on-site equipment that is known to contain polychlorinated biphenyls (PCBs). One pad-mounted transformer is present on the property and is owned by PG&E. The unit is not labeled as to its PCB content. ENVIRON saw no indication of leaks or releases from electrical equipment observed during the site visit.

Because the buildings were constructed prior to the 1979 federal ban on the manufacture of PCBs, it is possible that hydraulic oils, or other types of electrical equipment, such as capacitors or light ballasts, contain PCBs. ENVIRON observed pipes and controls in an unused portion of the warehouse building that appeared to be related to hydraulic systems used by previous occupants. Facility personnel were not aware of whether any of these unused hydraulic systems in the warehouse building contain oil, and did not know when these systems were last used or serviced; thus it is possible that hydraulic oils, if present in these systems, may contain

PCBs. Although not required by ASTM standards to be noted, ENVIRON observed fluorescent light ballasts in the warehouse maintenance area that were labeled as having been installed in 1966.

5.2.4 Heating/Cooling Systems

The buildings do not appear to have a central HVAC system or boiler equipment. It appears that comfort heating and cooling are provided by individual space heaters and air conditioners.

5.2.5 Stains or Corrosion on Interior Floors, Walls, or Ceilings

ENVIRON observed minor floor staining in the warehouse maintenance area. This staining did not appear to be indicative of widespread releases or losses, and some of the staining appeared to be related to water intrusion issues in the area.

5.2.6 Wastewater

Sanitary wastewater, which includes wastewater from kitchen and bathroom areas, is discharged to the municipal sewer system. Process wastewater is not generated at the site.

Storm water at the site infiltrates into small landscaped areas or enters municipal storm drains along Shellmound Street, which drain to San Francisco Bay. There is also a low-lying area along the northwest and western property boundaries that likely receives storm water runoff from the site.

5.2.7 Wells

ENVIRON observed five monitoring wells on the site, in locations that are consistent with those depicted as MW-1, MW-3, MW-7, MW-8, and MW-9 on previous environmental reports. No monitoring wells were observed in the reported locations of MW-5, MW-6, and MW-10. It is not known whether these wells have been abandoned and/or removed, or if they remain but have been buried or damaged. MW-7 was missing its vault lid and appeared to be filled with soil. The other observed wells are located in the former UST area, with MW-8 and MW-3 contained within vaults that appear to be related to the former groundwater extraction and treatment system at the site. Facility personnel were not aware any other monitoring wells on the property, nor were any additional monitoring wells observed at the time of the site visit.

6 Phase II Subsurface Investigation

ENVIRON conducted soil, soil gas and groundwater sampling at the site on April 19 and 22, 2013. Figure 3 shows the locations of the soil, soil gas and groundwater samples. Tables 1 through 5 present the results of soil, soil gas and groundwater sample analyses from the April 2013 investigation.

6.1 Pre-Field Activities

ENVIRON prepared a site-specific health and safety plan (HASP) and notified Underground Service Alert (USA) of the sampling activities at least two working days prior to the start of intrusive sampling, as required by law. ENVIRON obtained drilling and soil gas well installation permits from Alameda County Public Works Agency, Water Resources Division. ENVIRON contracted with a private utility locating company to clear proposed boring locations of underground utilities. ENVIRON also contracted with a drilling subcontractor to perform direct-push technology (DPT) drilling activities, and with analytical laboratories to perform soil, soil gas, and groundwater sample analyses.

6.2 Soil Borings and Soil Sample Collection

Soil samples were collected for chemical analyses at locations SG-1 through SG-5 from depths ranging from three to five feet below ground surface (bgs). At each location, a soil boring was advanced to a depth of at least five feet bgs (soil borings planned for groundwater sampling were advanced to a deeper depth, as discussed below) and soil was screened for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID) at one-foot intervals. Observations were recorded at each borehole to document soil lithology and any indications of staining or other visual evidence of impacts.

6.2.1 Soil Sampling, Lithology, and Observations from Zero to Five Feet

Soil boring SG-1 was located in the area to the north of the former USTs and was sampled at a depth of 3.5 to 4.0 feet bgs. SG-2 was located at the northern property boundary, to the north of the office building, and was sampled at 3.0 to 3.5 feet bgs. SG-3 was located in the central portion of the site, in the parking area along the northern side of the warehouse building, and was sampled at 3.5 to 4.0 feet bgs. SG-4 was located near the northwest corner of the warehouse building near the former sump location, and was sampled at 3.5 to 4.0 feet bgs. SG-5 was located in the southwestern corner of the site between the former drum storage area and the drainage ditch, and was sampled at 4.5 to 5.0 feet bgs. Shallow soil at all locations appeared to consist of gravelly, sandy, and clayey soils with occasional brick, concrete, and wood fragments, indicative of imported fill materials. No significant staining or odors were observed within the upper five feet of soil, and field screening for VOCs did not indicate VOCs above background levels in the upper five feet of soil.

Soil samples were collected in sections of the acetate drilling liner, which were immediately capped with Teflon sheets and plastic end caps, labeled, sealed in doubled zip-closure plastic bags, and stored on ice in an insulated cooler until transported to McCampbell Analytical, Inc. (MAI) under chain-of-custody documentation. Soil samples were requested to be analyzed for TPH as diesel (TPH-D) and motor oil (TPH-MO) by EPA Method 8015, organochlorine

pesticides (OCPs) and PCBs by EPA Method 8080A/8081B/8082A, and California Assessment Manual (CAM17) Metals by EPA Method 6020/7470A.

6.2.2 Lithology and Observations Below Five Feet

At locations SG-1, SG-4, and SG-5, the soil borings were extended to a depth of 15 feet bgs for groundwater sampling.

At SG-1, fill materials similar to those observed in shallow soils at other locations were observed to a depth of approximately five feet bgs, at which point fine brown sands were encountered. Groundwater was encountered at a depth of 10 to 11 feet bgs, and the color of the sand changed abruptly to gray just below the groundwater table. Wood fragments were observed near the bottom of the boring. No significant staining or odors were observed and there were no detections above background levels during field screening for VOCs.

At SG-4, primarily clay and sandy clay were observed below five feet bgs. At a depth of 9.5 feet bgs, just above the groundwater table, the color of the soil became black. No VOCs were detected above background levels during field screening at this depth. Groundwater was encountered between 10 and 11 feet bgs. Soils within the saturated zone, as well as the groundwater itself, appeared black. Field VOC screening indicated VOC concentrations ranging from approximately 10 to 20 ppm in headspace samples collected within the saturated zone, and a slight odor was present. Wood fragments were observed near the bottom of the boring.

At SG-5, primarily sand and sandy clay were observed below five feet bgs. At a depth of 9.9 feet, just above the groundwater table, the color of the soil became black with no VOC detections above background, similar to conditions observed at SG-4. Groundwater was encountered between 10 and 11 feet bgs, and soil and groundwater within the saturated zone appeared black, as it did at SG-4. A slight sheen was observed on portions of saturated soil at this location. Field VOC screening indicated VOC concentrations ranging from approximately 20 to 330 ppm in headspace samples collected within the saturated zone, and an odor was present.

6.3 Groundwater Sample Collection

As described above, at locations SG-1, SG-4, and SG-5, the soil borings were advanced to a depth of 15 feet bgs for the collection of grab groundwater samples. At each location, a temporary PVC well casing, screened from 5 to 15 feet bgs, was installed in the borehole. Depth-to-groundwater measurements were collected using a depth sounder until readings had stabilized. The static groundwater depths at SG-1, SG-4, and SG-5 were 10.75 feet bgs, 11.75 feet bgs, and 10.25 feet bgs, respectively. After collecting a final depth measurement, new polyethylene tubing equipped with a stainless steel check valve was lowered into the temporary well casing and groundwater samples were collected into laboratory-provided containers by raising and lowering the tubing. Sample containers designated for VOC analysis were filled completely with no headspace, as required by the analytical method.

During groundwater sampling at location SG-4 and SG-5, a moderate hydrogen sulfide odor was observed. At location SG-5, a slight sheen was observed on groundwater samples.

Sample containers were immediately capped, labeled, sealed in doubled zip-closure plastic bags, and stored on ice in an insulated container until transported to MAI under chain-of-custody documentation. Groundwater samples were requested to be analyzed for TPH-D, TPH-MO, and total CAM17 Metals by the EPA methods listed in Section 6.2.1, and for VOCs by EPA Method 8260B.

6.3.1 Borehole Abandonment

Following the completion of groundwater sampling, all of the soil borings were backfilled using neat Portland cement under the oversight of an Alameda County inspector. Soil borings that extended into groundwater were backfilled via tremie pipe. The surface at each borehole location was repaired using quick-set concrete that was dyed black to match the surrounding asphalt.

6.4 Soil Gas Sampling

On April 19, 2013, five semi-permanent vapor wells were installed at locations that were co-located with each of the soil borings described above. On April 22, 2013, soil gas samples were collected from each of the semi-permanent vapor wells, as described below.

6.4.1 Installation of Semi-Permanent Vapor Wells

Semi-permanent vapor wells were installed on April 19, 2013 at locations SG-1 through SG-5, in dedicated soil borings that were co-located with the borings that were used for soil and groundwater sampling. The vapor wells were constructed in general accordance with DTSC and RWQCB guidance for active soil gas investigations[4]. Soil borings were advanced to a depth of five feet bgs, and a length of Teflon tubing equipped with a stainless steel probe tip was lowered into each borehole to a depth of 4.5 feet bgs. A sand pack of clean No. 3 Monterey beach sand was emplaced from 4.0 to 5.0 feet bgs. Six inches of dry granular bentonite was added above the sand pack, and then additional granular bentonite was added and hydrated in six-inch lifts using potable water to approximately six inches below the surface. The vapor wells were completed using flush-mounted well vault boxes cemented into place with quick-set concrete.

6.4.2 Collection of Soil Gas Samples

Soil gas samples were collected from each of the semi-permanent vapor wells on April 22, 2013, in general accordance with the DTSC/RWQCB guidance document referenced above. Prior to sampling, the laboratory-provided Summa canisters and sampling manifolds were individually certified to be clean to method detection limits.

Prior to sampling at each location, the laboratory-provided sampling manifold was connected to a laboratory-provided Summa canister and sealed using a Swagelok compression cap. A syringe was then connected to the purging port of the manifold using a dedicated, disposable polycarbonate three-way valve. The syringe was then used to apply a vacuum to the system and the three-way valve was closed, in order to conduct a “shut-in test” to assess the potential

[4] California EPA Department of Toxic Substances Control, Los Angeles RWQCB, and San Francisco RWQCB, 2012. *Advisory – Active Soil Gas Investigations*. April.

for any leaks in the sample train. The vacuum level was recorded at the start of each test, and again after a 10-minute observation period. No leaks were detected.

The wells were then connected to the laboratory-provided sampling manifold with the one-liter Summa canister and syringe attached. The wells were purged by withdrawing a minimum of three times the volume of the tubing and probe tip at a rate of approximately 150 to 200 milliliters per minute (ml/min), using the syringe. Following purging, the Summa canister valve was opened, allowing the sample to be collected. Sample air passed through a critical orifice contained within the manifold, ensuring that the rate of sampling was approximately 150 to 200 ml/min. During sampling, a shroud containing an atmosphere of 1,1-difluoroethane (1,1-DFA, used as a leak check tracer compound) was used to cover the top of each vapor well. The leak-check atmosphere was applied to the air within the shroud by spraying an aerosol spray duster into the shroud for a period of three seconds. A shroud atmosphere sample, which was collected in a Tedlar bag at one of the sampling locations, was submitted to the laboratory with the soil gas samples, in order to document the approximate concentration of the leak check tracer in the shroud at each location. This allows the effect of any detected leakage between the sample probe and the ambient air to be approximated.

Soil gas samples and the shroud atmosphere sample were labeled and shipped to Calscience Environmental Laboratories (CEL) under chain-of-custody documentation. Soil gas samples were requested to be analyzed by EPA Method TO-15 for the full list of VOCs and for fixed gases including methane, carbon dioxide, oxygen, argon, and nitrogen by ASTM D-1946. The shroud atmosphere sample was analyzed by EPA Method TO-15 for 1,1-DFA only.

7 Investigation Results

The results of soil, soil gas and groundwater sampling are discussed below. Analytical data are summarized in Tables 1 through 5 and sample locations are shown on Figure 3. Laboratory analytical results are provided in Appendix G.

7.1 Soil Sampling Results

Shallow soil sampling results indicate that fill materials at the site are impacted with TPH-D and TPH-MO. At locations SG-3 and SG-4, the concentrations of TPH exceed regulatory criteria for shallow soil at residential sites. PCBs were also detected at locations SG-3 and SG-4 at concentrations that exceed residential criteria. The organochlorine pesticide DDT was detected at four of the five sampling locations, at concentrations that are below residential criteria.

Elevated concentrations of metals (primarily arsenic and lead) were detected at most of the sampling locations, and lead leaching tests indicated that shallow soil at location SG-1 would likely be classified as non-RCRA hazardous waste if removed from the site. Soil sample results are summarized in Tables 1 and 2.

7.2 Groundwater Sampling Results

Groundwater sampling results indicate that site groundwater is impacted with TPH-D and TPH-MO at concentrations that exceed regulatory screening criteria. Groundwater on the western portion of the site (SG-5) is also impacted with VOCs including benzene, ethybenzene, naphthalene, and xylenes at concentrations above residential screening criteria (but below screening criteria for potential vapor intrusion concerns). Benzene concentrations in groundwater that are above residential screening criteria (but below screening criteria for potential vapor intrusion concerns) were also detected at location SG-4.

Elevated concentrations of total metals including antimony, arsenic, barium, cadmium, cobalt, copper, lead, mercury, molybdenum, nickel, silver, vanadium and zinc were detected in site groundwater. Groundwater at locations SG-4 and SG-5 is highly impacted with lead (and copper at SG-5) at concentrations that would exceed hazardous waste criteria if removed from the site. Groundwater sample results are summarized in Tables 3 and 4.

7.3 Soil Gas Sampling Results

VOCs were detected in soil gas samples collected from all five locations at the site. At locations SG-3 and SG-4, benzene was detected at concentrations that are above the California Human Health Screening Level (CHHSL) for shallow soil gas at residential sites.

Methane was detected at a concentration of less than 1% by volume at location SG-3.

1,1-DFA, the leak check tracer compound, was detected at a concentration of 140 micrograms per cubic meter (ug/m^3) in the sample collected at SG-3. Based on the shroud atmosphere sample concentration of 130,000 ug/m3, the effect of the leak was calculated to be approximately 0.001% and is thus not considered to have introduced significant bias to the sample result. Soil gas sample results are summarized in Table 5.

8 Findings, Opinion, and Conclusions

ENVIRON performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05 of the Nady Systems, Inc. property located at 6701-6707 Shellmound Street in Emeryville, California in April 2013. Any exceptions to, or deletions from, this practice are described in Section 8.3.

8.1 Findings and Opinion

8.1.1 Recognized Environmental Conditions

ENVIRON identified the following "recognized environmental conditions" (RECs) in connection with the property.

- **Soil, Soil Gas and Groundwater Contamination.** The site has been used for various industrial purposes since the late 1940s. Prior operations have included a solid waste landfill (approximately 1947 to 1950s), a label tape and label tape puncher manufacturer (1963-1979) and a lithography and off-set printing manufacturer (1979-1990). These former industrial operations may have included the use and/or disposal of petroleum products, solvents, metals, and other chemicals. The historical handling, disposal, and use of these chemicals were not strictly regulated, controlled, or monitored during the site's early operational history (starting in approximately 1947). Previous environmental investigations at the site, including ENVIRON's investigation in 2013, indicate that elevated concentrations of metals, volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) are present in soil and groundwater at the site. PCBs are also present in soil. During ENVIRON's investigation in 2013, benzene, a VOC, was identified at elevated concentrations in soil gas and groundwater at the site. In addition, lead was also identified in soil and groundwater samples at concentrations above environmental regulatory agency health-based thresholds as well as at concentrations potentially above State and Federal hazardous waste thresholds.

- **Residual Contamination from Prior Environmental Remediation Activities.** Site records indicate that VOCs were previously used and stored on the site in drums and underground storage tanks (USTs) by Mike Roberts Color Production and Dymo Industries. The drum storage area and USTs were removed in the early 1990s. Site documents also indicate that there is residual contamination in soil from fill materials present on the site. Some limited environmental remediation activities were performed at the site from 1990 to 1994 under the oversight of the Alameda County Environmental Health (ACEH) Services Agency. These remediation activities consisted of UST removal, soil excavation in a few "hot spot" locations, groundwater monitoring and soil vapor extraction. On October 20, 1994, a deed notice (included in Appendix D.2) was issued for the site and signed by John Nady. The deed notice stated that:

    1. If soil is excavated, it may be considered hazardous waste under state and federal law;

    2. Groundwater from the site is not usable for domestic, irrigation or industrial purposes;

3. If future construction includes structures extending below the ground level (that being approximately 7 to 10 feet), groundwater generated during dewatering operations will require treatment prior to discharge;

4. An approved Health and Safety Plan will be required by the Alameda County Health Care Services Agency (ACHCSA) prior to any work requiring significant subsurface excavations; and

5. An environmental risk assessment may be required by the ACHCSA if any significant change in land use is proposed.

Subsequently in December 1996, following the completion of groundwater monitoring activities at the site, the ACEH Services Agency issued a conditional site closure letter (included in Appendix D.3) stating that further remediation and/or monitoring related to the former USTs removed from the site is not required but the recorded deed notice must be modified to include the following measures:

1. The shallow groundwater beneath the site shall not be used;
2. Appropriate Health and Safety plans shall be prepared prior to and followed during any activities involving exposure to pollution in soil or groundwater;
3. A health risk assessment shall be required if a change in land use, structural configuration or site activities are proposed such that more conservative scenarios should be evaluated; and
4. Potential vertical conduits between the shallow and deep aquifers shall not be created.

No information was found indicating that the deed notice had been modified to be consistent with the December 1996 conditional closure letter.

- **Open Spills, Leaks Investigation and Cleanup (SLIC) Case.** The site is listed on the SLIC database as being the focus of an open remediation case at the Alameda County Local Oversight Program (LOP). The site status is listed as “Open - Remediation”, with groundwater having been impacted by “other solvent or non-petroleum hydrocarbon”. The listing summarizes the site history from 1963 to the 1990s and references the ACEH website for a more complete historic case file. Based on the closure letter (included in Appendix D.3), it appears that while the Leaking Underground Storage Tank (LUST) case has been closed with a deed restriction, the SLIC case at the site remains open. The most recent regulatory action for this case, as listed on the California Regional Water Quality Control Board (RWQCB) Geotracker website, was a file review conducted in 2012.

8.1.2 Other Findings

In addition to RECs discussed above, the following additional findings related to potential contamination concerns were identified:

- **Potential Migration of Contamination from Off-site Properties.** The site is located in the presumed downgradient direction from, and/or is adjacent to, several off-site properties listed with open database listings related to potential soil and groundwater contamination. These off-site properties include Metalco (listed on ENVIROSTOR database as needing evaluation), McGrath Steel (listed on LUST database as Open – Assessment), and the Richardson/Sybase and Mussallem/Sybase site (listed on the LUST database as Open – Assessment). The Richardson/Sybase and Mussallem/Sybase property is adjacent to the south of the site, and the other off-site properties are located within approximately 300 to 1,000 feet from the subject site. There has been no apparent regulatory impetus to investigate whether contamination from these properties has migrated to the subject site. If contamination associated with these off-site properties is found to have migrated onto the subject site, it is expected that any remedial activities would be the responsibility of the entities named in the listings or other designated responsible party and not the owner of 6701-6707 Shellmound Street (site).

8.1.3 *De Minimis* Conditions

ENVIRON did not identify any *de minimis* conditions during the course of this assessment.

8.2 Conclusions

ENVIRON has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 of the Nady Systems, Inc. property located at 6701-6707 Shellmound Street in Emeryville, California. Any exceptions to, or deletions from, this practice are described in Section 8.3 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property, except for those described in Section 8.1.

8.3 Analysis of Data Gaps

The ASTM Standard defines a data gap as “a lack of or inability to obtain information required by the practice despite good faith efforts by the environmental professional to gather such information.” A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the environmental professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps.

Site reconnaissance deviations, deletions, limitations, and exceptions, to the ASTM Standard for the assessment are discussed below.

- Due to extended age of the site, it was not possible to interview representatives dating back to the site’s first developed industrial [commercial] use in approximately 1947. However, ENVIRON conducted interviews with representatives of Nady Systems Inc. dating back to 1990 and reviewed other historical sources regarding former uses of the property
- During the site visit, several of the mezzanine-level rooms in the office and warehouse buildings were off-limits during the site reconnaissance due to the potential presence of mold related to water intrusion issues. Some unused areas of the warehouse building

were without power and/or lights and ENVIRON did not fully observe these areas. Lastly, several rooms in the office and warehouse buildings, including the maintenance area in the warehouse building, contained numerous boxes and other stored items, which prevented ENVIRON from observing the floor and/or walls of these areas. The contents of stored boxes and other items in these areas were not inspected. In addition, ENVIRON did not observe the roof of the buildings.

- In lieu of conducting interviews with a local regulatory official, ENVIRON submitted formal document requests to regulatory agencies and reviewed information provided in response to those requests.
- As it is a user requirement, ENVIRON did not conduct a review of records to identify whether any environmental liens or activity and use limitations (AULs) have been imposed on the site.

None of the exceptions, deletions, deviations, or site reconnaissance limitations noted above are considered to represent significant data gaps.

9 References

9.1 Documents

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URS. 2005. *Final Report, Geotechnical Characterization, 6701 Shellmound Street/Bay Street, Emeryville, California.* October 7.

9.2 Interviews

John Nady. Nady Systems, Inc. 2013. Personal interview. April 9.

Toby Nady. Nady Systems, Inc. 2013. Personal interview. April 9.

Tables

Table 1 - Organics in Soil
2013 Subsurface Investigation by ENVIRON
Nady Systems

Borehole ID	Sample Depth	TPH (mg/kg)		Pesticides and PCBs (mg/kg)		
		TPH-Diesel	TPH-Motor Oil	DDT	Arochlor 1260	Total PCBs
SG-1	3.5-4.0	**43**	**250**	**0.03**	ND < 0.5	ND < 0.5
SG-2	3.0-3.5	**43**	**340**	**0.068**	ND < 1.0	ND < 1.0
SG-3	3.5-4.0	**290**	**1,400**	**0.25**	**14**	**14**
SG-4	3.5-4.0	**200**	**400**	**0.42**	**8**	**8**
SG-5	4.5-5.0	**33**	**290**	ND < 0.020	ND < 1.0	ND < 1.0
CHHSL - Residential [1]		*na*	*na*	*1.6*	*0.089*	*0.089*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource [2]		*100*	*500*	*1.7*	*0.22*	*0.22*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
CHHSL: California Human Health Screening Level
DDT: dichlorodiphenyltrichloroethane
ESL: Environmental Screening Level
mg/kg: milligrams per kilogram
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
NDW: Non-Drinking Water Resource Area
PCBs: Polychlorinated Biphenyls
TPH: Total Petroleum Hydrocarbons
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table 2 - Metals in Soil
2013 Subsurface Investigation by ENVIRON
Nady Systems

Borehole ID	Sample Depths	Metals (mg/kg, except where noted)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Lead - STLC (mg/L)	Lead - TCLP (mg/L)	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
SG-1	3.5-4.0	**5.2**	**11**	**280**	ND < 0.5	**1**	**100**	**22**	**480**	**990**	**12**	ND<0.2	**0.2**	**4.2**	**220**	**0.6**	**60**	**490**
SG-2	3.0-3.5	**1.9**	**12**	**160**	**0.51**	**0.84**	**50**	**11**	**88**	**120**	**4**	ND<0.2	**0.36**	**1.3**	**63**	ND < 0.5	**50**	**220**
SG-3	3.5-4.0	**8.9**	**7.3**	**230**	ND < 0.5	**0.94**	**54**	**9.3**	**160**	**830**	--	--	**0.2**	**1.3**	**51**	ND < 0.5	**49**	**240**
SG-4	3.5-4.0	**2.6**	**6.9**	**170**	ND < 0.5	**0.82**	**68**	**14**	**78**	**130**	--	--	**0.32**	**2.9**	**83**	ND < 0.5	**45**	**440**
SG-5	4.5-5.0	**1**	**9.9**	**120**	ND < 0.5	**0.44**	**44**	**7.3**	**44**	**75**	--	--	**0.12**	**0.5**	**34**	ND < 0.5	**41**	**97**
CHHSL - Residential [1]		*30*	*0.07*	*5,200*	*150*	*1.7*	*10,000*	*660*	*3,000*	*150*	*N/A*	*N/A*	*18*	*380*	*1,600*	*380*	*530*	*23,000*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource [2]		*20*	*0.39*	*750*	*4*	*12*	*750*	*0.33*	*230*	*80*	*N/A*	*N/A*	*6.7*	*40*	*150*	*20*	*200*	*600*

Notes:
exceeds regulatory criteria
exceeds California hazardous waste criteria
Only detected compounds are shown.
Detections are in **bold**.
mg/kg: milligrams per kilogram
mg/L: milligrams per liter
N/A: Not Applicable
--: not analyzed
ND < ##: Not detected at or above laboratory reporting limit shown
CHHSL: California Human Health Screening Level
ESL: Environmental Screening Level
NDW: Non-Drinking Water Resource Area
STLC: Soluble Threshold Limit Concentration
TCLP: Toxicity Characteristic Leaching Procedure
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table 3 - Organics in Groundwater
2013 Subsurface Investigation by ENVIRON
Nady Systems

Location ID	Depth to Water (ft bgs)	Observations	TPH (ug/L)		VOCs (ug/L)															
			TPH-Diesel	TPH-Motor Oil	Benzene	TBA	n-Butyl Benzene	sec-Butyl Benzene	Carbon disulfide	Chloro-benzene	Ethyl-benzene	cis-1,2-DCE	Isopropyl-benzene	4-isopropyl toluene	Naph-thalene	n-Propyl benzene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SG-1	10.75	Gray color, no odor	920	5,600	ND < 0.5	ND < 2.0	ND < 0.5	ND < 0.5	**1.1**	**4.4**	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
SG-4	11.75	Black color, strong H2S odor	4,700	12,000	**2**	**2.3**	ND < 0.5	**1.3**	**3.9**	ND < 0.5	ND < 0.5	**0.69**	**1.1**	ND < 0.5	ND < 0.5	ND < 0.5	**0.54**	ND < 0.5	ND < 0.5	ND < 0.5
SG-5	10.29	Black color, sheen, H2S odor	58,000	9,500	**8.1**	ND < 20	**32**	**38**	ND < 5.0	ND < 5.0	**45**	ND < 5.0	**67**	**13**	**84**	**87**	ND < 5.0	**350**	**24**	**59**
California MCL - Drinking Water[1]			*na*	*na*	*1*	*na*	*na*	*na*	*na*	*100**	*300*	*6*	*na*	*na*	*na*	*na*	*150*	*na*	*na*	*1,750*
ESL - Groundwater[2]			*100*	*100*	*1*	*12*	*na*	*na*	*na*	*25*	*30*	*6*	*na*	*na*	*6.2*	*na*	*40*	*na*	*na*	*20*
ESL - Evaluation of Potential Vapor Intrusion Concerns, Residential[2]			*na*	*na*	*27*	*na*	*na*	*na*	*na*	*na*	*310*	*na*	*na*	*na*	*160*	*na*	*95,000*	*na*	*na*	*37,000*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
bgs: below ground surface
DCE: dichloroethene
ESL: Environmental Screening Level
H2S: hydrogen sulfide
ug/L: micrograms per liter
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
NDW: Non-Drinking Water Resource Area
TBA: t-Butyl alcohol
TPH: Total Petroleum Hydrocarbons
VOCs: Volatile Organic Compounds
1. California Department of Public Health, 2013. *California Maximum Contaminant Levels (MCLs)*. March.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)*. February.
*: indicates USEPA MCL, shown for compounds that have a federal MCL but do not have a California MCL.

Table 4 - Metals in Groundwater
2013 Subsurface Investigation by ENVIRON
Nady Systems

Location ID	Depth to Water (ft bgs)	Observations	Total Metals (ug/L)													
			Antimony	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
SG-1	10.75	Gray color, no odor	ND < 50	**210**	**12,000**	ND < 25	**4,100**	**820**	**4,200**	**2,700**	**2.7**	**77**	**4,600**	ND < 19	**2,100**	**5,900**
SG-4	11.75	Black color, strong H2S odor	**150**	**650**	**23,000**	**210**	**1,400**	**210**	**8,300**	**26,000**	**130**	**270**	**1,600**	**19**	**480**	**78,000**
SG-5	10.29	Black color, sheen, H2S odor	**94**	**1,600**	**25,000**	**320**	**1,800**	**490**	**34,000**	**60,000**	**52**	**180**	**2,700**	**53**	**1,900**	**160,000**
California MCL - Drinking Water[1]			*6*	*10*	*1,000*	*5*	*50*	*na*	*1,300*	*15*	*2*	*na*	*100*	*na*	*na*	*na*
ESL - Groundwater[2]			*6*	*36*	*1,000*	*0.25*	*50*	*3*	*3.1*	*2.5*	*0.025*	*180*	*8.2*	*0.19*	*15*	*81.0*
STLC - California Hazardous Waste Criteria			*15,000*	*5,000*	*100,000*	*1,000*	*5,000*	*80,000*	*25,000*	*5,000*	*200*	*350,000*	*20,000*	*5,000*	*24,000*	*250,000*

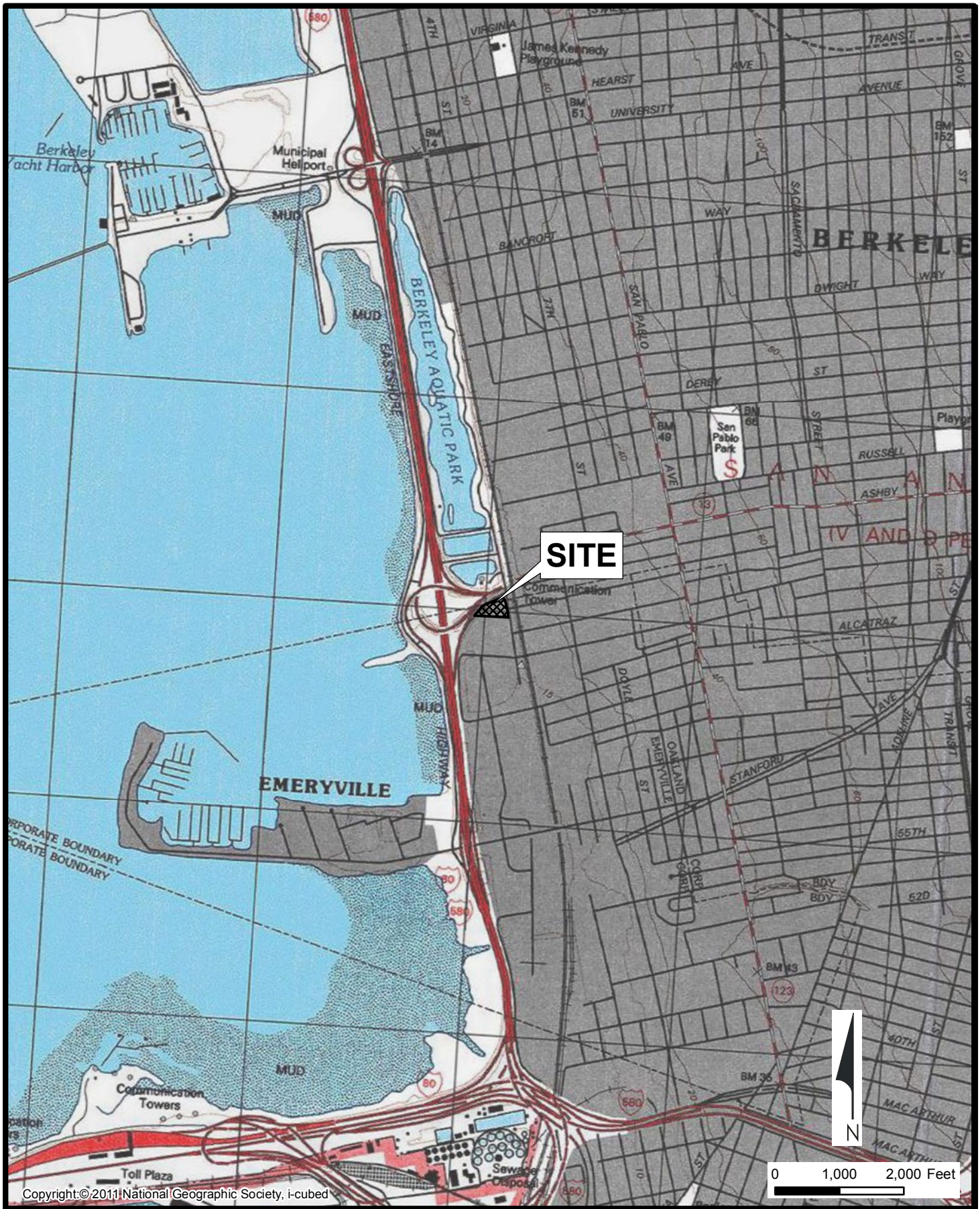
Notes:
exceeds regulatory criteria
exceeds hazardous waste and regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
bgs: below ground surface
ug/L: micrograms per liter
H2S: hydrogen sulfide
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
STLC: Soluble Threshold Limit Concentration
1. California Department of Public Health, 2013. *California Maximum Contaminant Levels (MCLs)*. March.
2. San Francisco Bay Regional Water Quality Control Board, 2013. *2013 Tier 1 ESL Lookup Tables*. February.

Table 5 - VOCs and Fixed Gases in Soil Gas
2013 Subsurface Investigation by ENVIRON
Nady Systems

		VOCs (ug/m^3)															Fixed Gases (% by volume)			
Location ID	**Depth to Water (ft bgs)**	**Acetone**	**Benzene**	**Chloro-methane**	**Ethyl-benzene**	**4-Ethyl-toluene**	**2-Butanone (MEK)**	**PCE**	**TCE**	**Toluene**	**1,2,4-Trimethyl-benzene**	**1,3,5-Trimethyl-benzene**	**cis-1,2-DCE**	**o-Xylene**	**p/m-Xylene**	**1,1-DFA (Leak Check)**	**Methane**	**Carbon Dioxide**	**Oxygen and Argon**	**Nitrogen**
SG-1	10.75	ND < 7.2	**8.6**	ND < 1.6	ND < 3.3	ND < 3.7	ND < 6.7	ND < 5.2	ND < 4.1	**3.4**	ND < 11	ND < 3.7	ND < 3.0	ND < 3.3	ND < 13	ND < 8.2	ND < 0.5	**8.49**	**8.9**	**82.6**
SG-2	--	ND < 13	ND < 4.5	ND < 2.9	ND < 6.1	**13**	ND < 12	ND < 9.6	ND < 7.6	ND < 5.3	**37**	**16**	ND < 5.6	ND < 6.1	ND < 24	ND < 15	ND < 0.5	**10.7**	**12**	**77.2**
SG-3	--	ND < 38	**73**	ND < 8.3	ND < 17	ND < 20	ND < 35	**30**	ND < 21	**18**	ND < 59	ND < 20	**24**	ND < 17	ND < 69	**140**	**0.864**	ND < 0.5	**19.9**	**79.3**
SG-4	11.75	**19**	**37**	**2.4**	**4.6**	ND < 3.6	**7.7**	ND < 4.9	**9.6**	**16**	ND < 11	ND < 3.6	ND < 2.9	**5.8**	**16**	ND < 7.8	ND < 0.5	**9.52**	**11.4**	**79.1**
SG-5	10.29	**19**	**9.5**	ND < 1.7	**6.2**	ND < 4.0	ND < 7.3	ND < 5.6	**9.1**	**6.1**	ND < 12	ND < 4.0	ND < 3.3	**12**	**26**	ND < 8.9	ND < 0.5	**8.5**	**13.6**	**77.9**
SG-2-Shroud	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**130,000**	--	--	--	--
Shallow Soil Gas CHHSL - Residential [1]		*na*	*36.2*	*na*	*na*	*na*	*na*	*180*	*528*	*135,000*	*na*	*na*	*15,900*	*315,000*	*317,000*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
na: not available
N/A: not applicable
ND < ##: Not detected at or above laboratory reporting limit shown
--: not analyzed
bgs: below ground surface
CHHSL: California Human Health Screening Level
DCE: dichloroethene
DFA: difluoroethane
PCE: tetrachloroethene
TCE: trichloroethene
ug/m^3: micrograms per cubic meter
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.

Figures



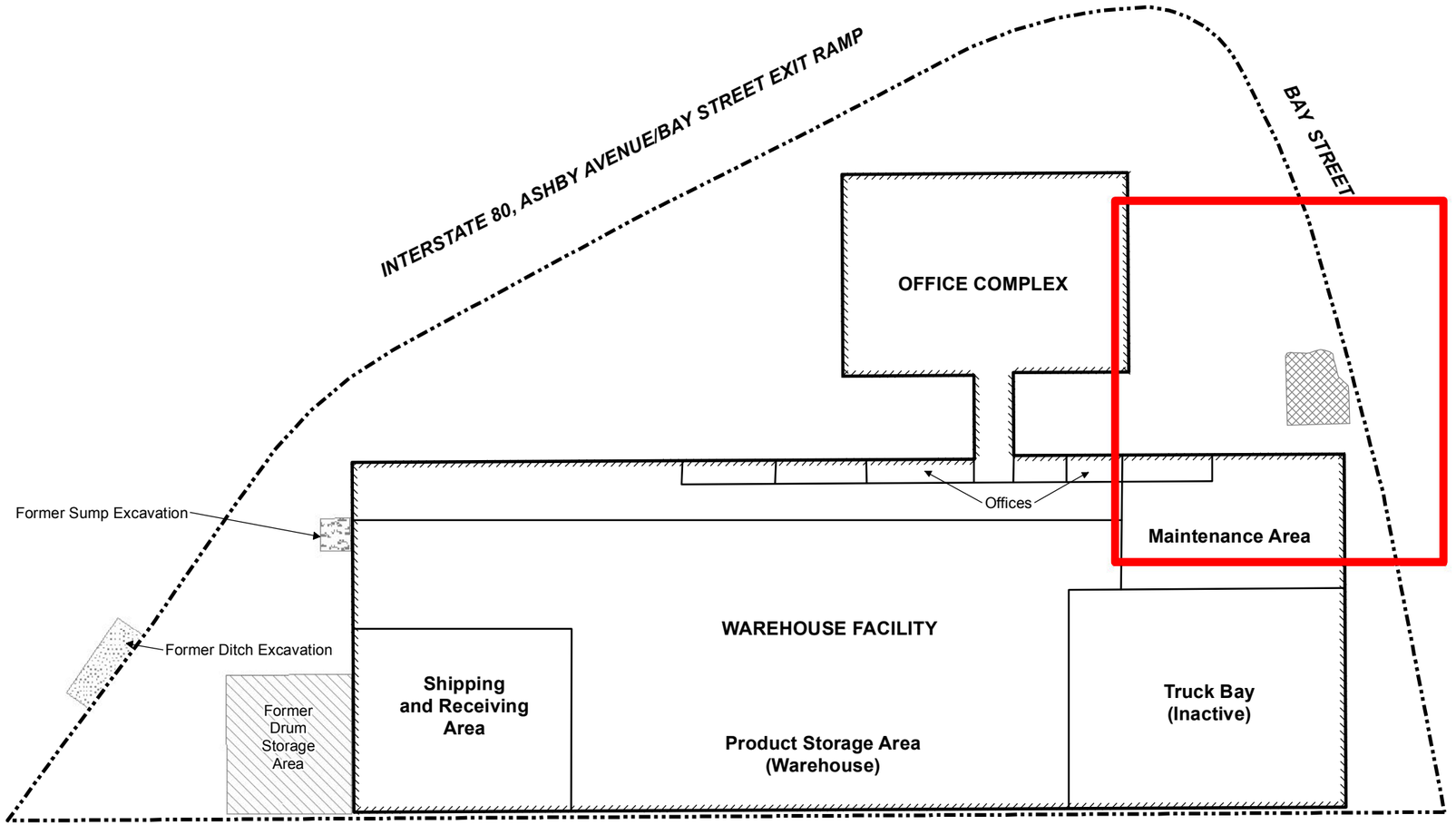
ENVIRON

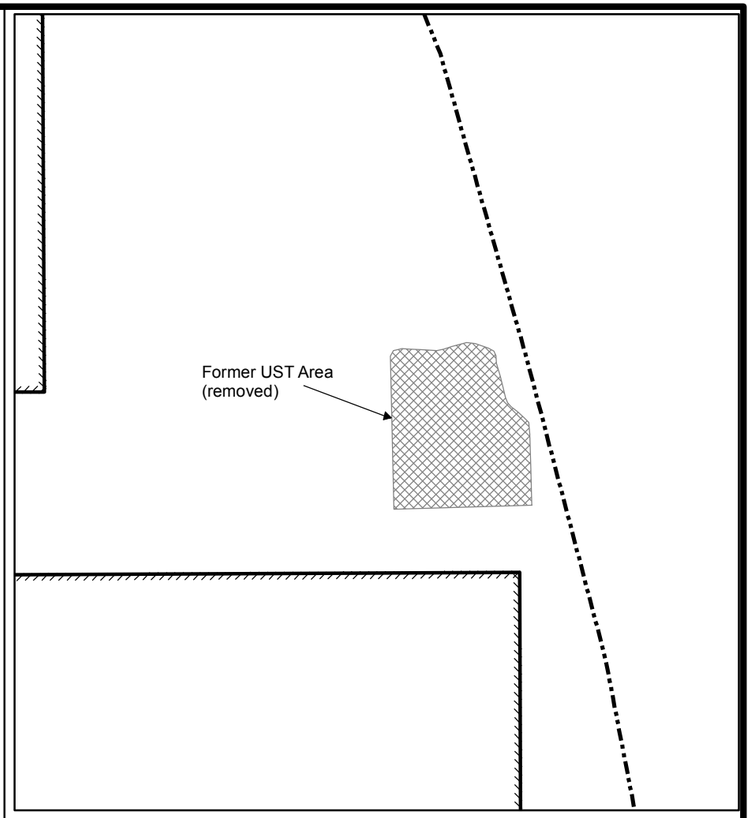
Site Location
6707 Bay Street
Emeryville, California

Figure
1

Drafter:	RS	Date: 6/25/2013	Contract Number:	03-32356A	Approved:	Revised:

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Legend

- Building
- Property Line
- Approximate Extent of Previous Tank Excavation
- Wall

Note: Interior building dimensions are approximate.

N

0 50 100

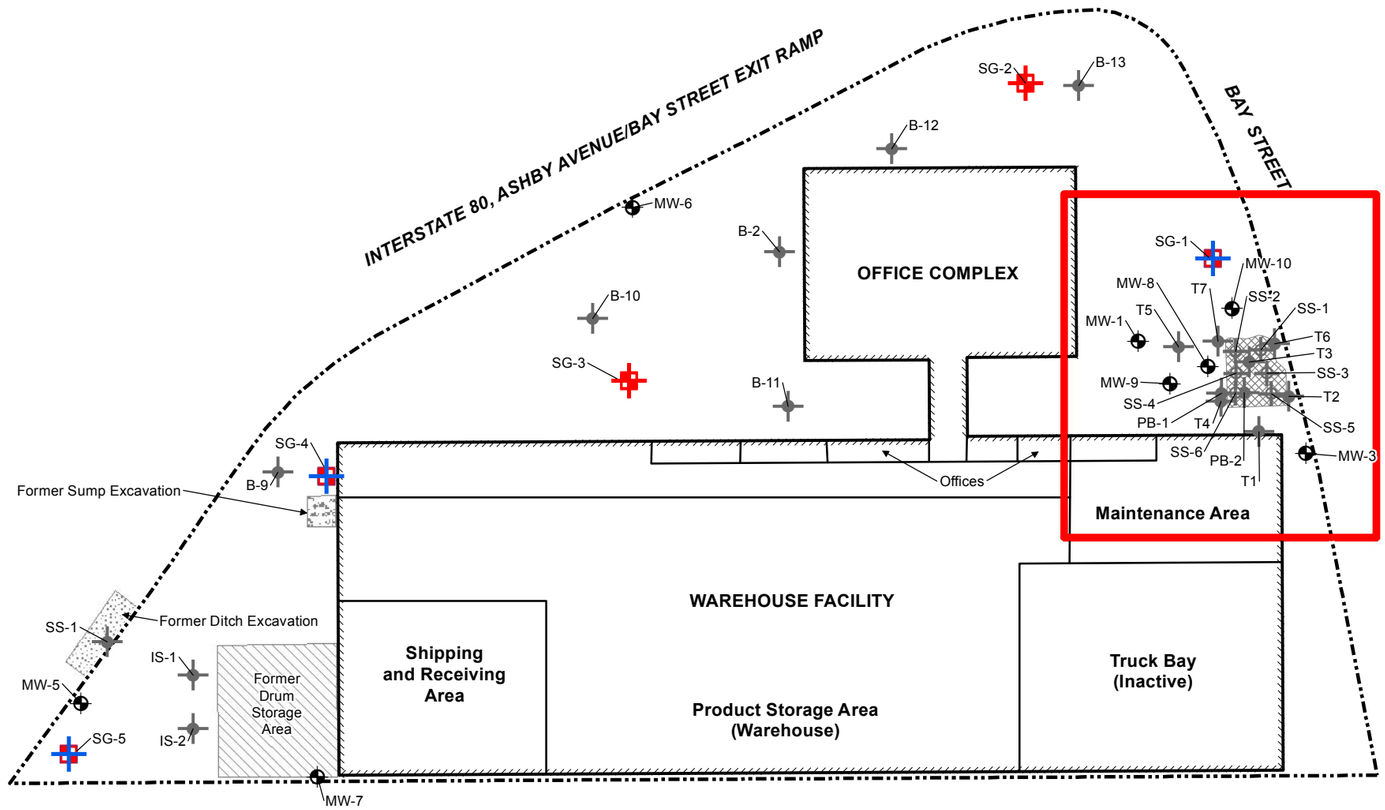
SCALE IN FEET

ENVIRON

Site Layout
6707 Bay Street
Emeryville, California

Date:	Contract Number:		Figure
4/29/13	03-32356A		2
Drafter: RS	Approved:	Revised:	

Path: Q:\DRAWINGS\03323566A\0332356A-Site Layout-2.mxd



Legend

- Soil, Soil Gas and Groundwater Sampling Location
- Soil Gas and Soil Sampling Location
- Monitoring Well
- Historical Test Boring
- Historical Confirmation Sample from Tank Excavation
- Wall
- Building
- Property Line
- Approximate Extent of Previous Tank Excavation

Note: Interior building dimensions are approximate.

N

0 50 100

SCALE IN FEET

ENVIRON

Soil, Soil Gas, and Groundwater Sampling Locations
6707 Bay Street
Emeryville, California

Date:	Contract Number:		Figure
4/29/13	03-32356A		3
Drafter: RS	Approved:	Revised:	

Path: Q:\DRAWINGS\03323356A\03323356A-PropSoilSampLocation.mxd

Appendix A

Site Photographs



Photo 1: Looking north from site entrance along Shellmound Street.



Photo 2: Looking east from site entrance across Shellmound Street at Coulter Steel & Forge Company.



Photo 3: Looking south from site entrance along Shellmound Street.



Photo 4: Looking west from western site boundary at Highway 80 Ashby Avenue off-ramp.



Photo 5: Looking northwest at the eastern wall of the warehouse building.



Photo 6: Looking east from the central site parking area at the rear of the office building.



Photo 7: Looking south from the rear parking area of the site. The western wall of the warehouse is to the left. In background is the adjacent building to the south.



Photo 8: Four 55-gallon drums stored at the southwest corner of the warehouse building. According to facility personnel, the drums are from a previous environmental investigation at the site. Drum without lid appeared to contain soil.



Photo 9: Floor of maintenance area in warehouse building. Floor staining appeared to have been caused by water intrusion.



Photo 10: Desk and shelves in maintenance area in warehouse building with various retail-sized containers of paint, paint thinner, paint remover, polyurethane, and cleaning products.



Photo 11: Workshop in maintenance area of warehouse building.



Photo 12: Central product storage and packing area in warehouse building.



Photo 13: Shipping and receiving area in warehouse building.



Photo 14: Shipping and receiving door at west side of warehouse building, with propane-powered forklift.



Photo 15: Hydraulic system equipment in unused area of warehouse building.



Photo 16: Two trucks in unused truck bay area of warehouse building.



Photo 17: Underground utility clearance activities conducted prior to soil, soil gas, and groundwater sampling.



Photo 18: Looking west at drill rig positioned at location SG-5.



Photo 19: Black-colored soil and groundwater observed within the saturated zone at SG-5.



Photo 20: Black-colored groundwater being sampled at location SG-4.



Photo 21: Semi-permanent soil vapor well at location SG-1 after installation.



Photo 22: Soil gas sampling equipment and leak detection shroud (plastic container) at location SG-5.

Appendix B

Environmental Database Report

EDR conducted its searches for the standard environmental record sources and the minimum search distances, as specified by the ASTM Standard. The ASTM Standard uses the terminology “approximate minimum search distance” to refer to the radii searched in the environmental database report.

EDR conducted the search of environmental databases in March 2013. Because the environmental databases themselves are sometimes not updated by the specific regulatory agencies for periods of up to one year or more (depending on the database and the state), the database search conducted herein will not necessarily list any facility or site for which an environmental investigation/listing has been initiated subsequent to the last update.

Appendix C

Historical Research Documentation

Appendix C.1

Topographic Maps

Nady Systems
6707 Bay Street A.K.A. 6701 Shellmound Street
Emeryville, CA 94608

Inquiry Number: 3559167.4
March 27, 2013

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

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

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

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Historical Topographic Map



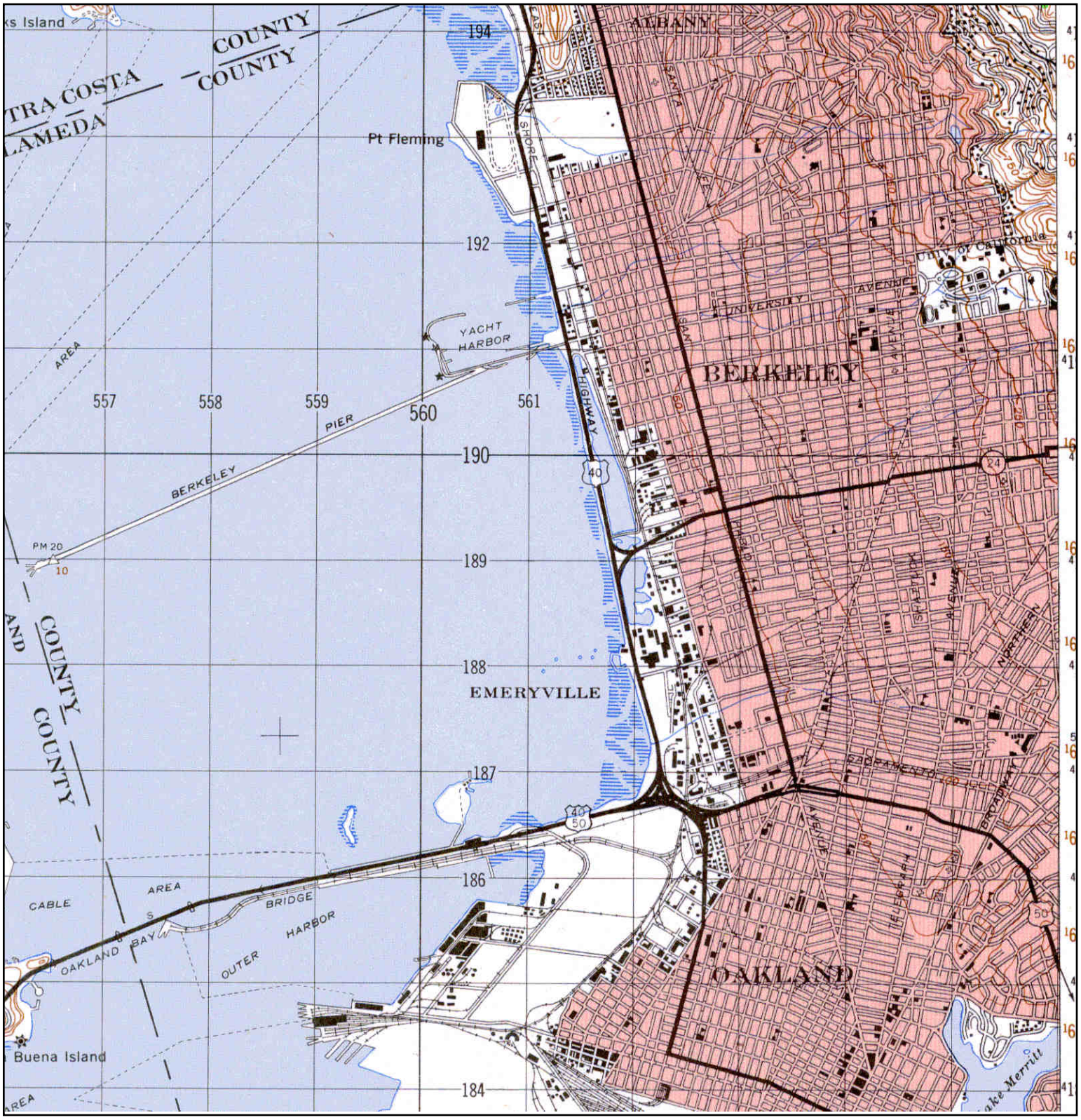
N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1895 SERIES: 15 SCALE: 1:62500	SITE NAME: Nady Systems ADDRESS: 6707 Bay Street A.K.A. 6701 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8482 / -122.2952	CLIENT: ENVIRON International Corporation CONTACT: Dan Clark INQUIRY#: 3559167.4 RESEARCH DATE: 03/27/2013

Historical Topographic Map



N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1915 SERIES: 15 SCALE: 1:62500	SITE NAME: Nady Systems ADDRESS: 6707 Bay Street A.K.A. 6701 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8482 / -122.2952	CLIENT: ENVIRON International Corporation CONTACT: Dan Clark INQUIRY#: 3559167.4 RESEARCH DATE: 03/27/2013

Historical Topographic Map



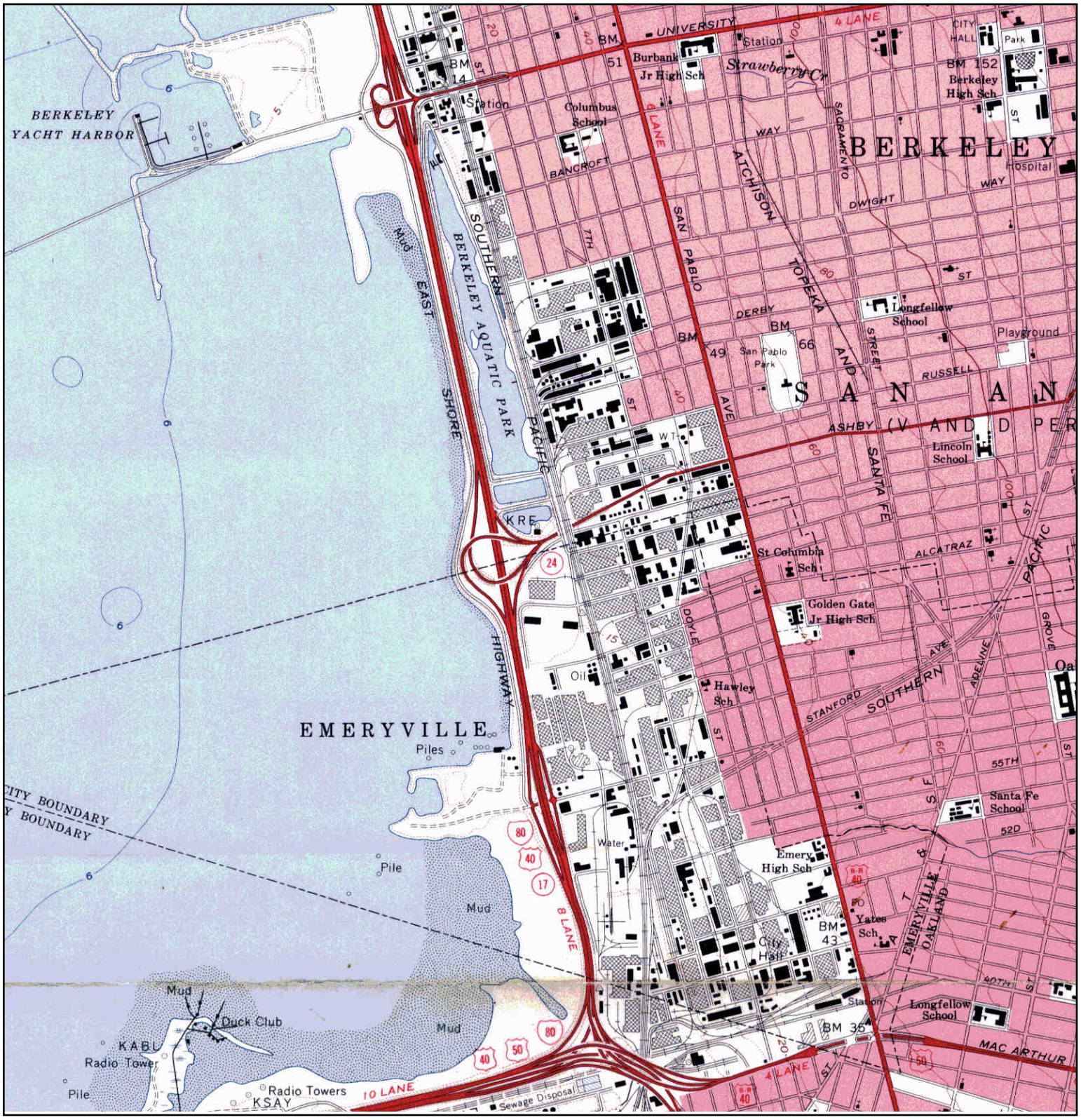
N	TARGET QUAD NAME: SAN FRANCISCO MAP YEAR: 1948 SERIES: 15 SCALE: 1:50000	SITE NAME: Nady Systems ADDRESS: 6707 Bay Street A.K.A. 6701 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8482 / -122.2952	CLIENT: ENVIRON International Corporation CONTACT: Dan Clark INQUIRY#: 3559167.4 RESEARCH DATE: 03/27/2013

Historical Topographic Map



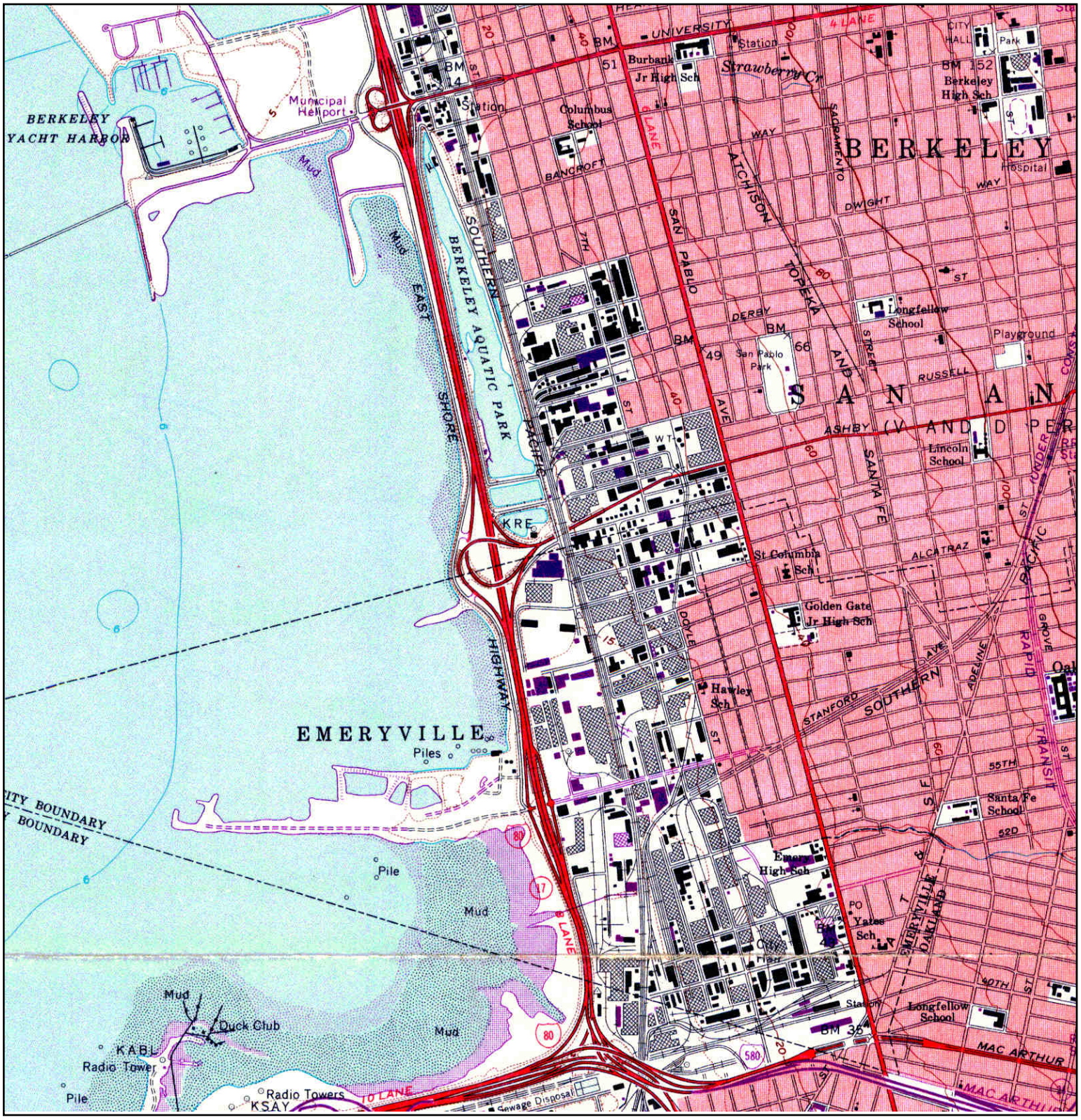
N	TARGET QUAD NAME: OAKLANDWEST MAP YEAR: 1949 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Nady Systems ADDRESS: 6707 Bay Street A.K.A. 6701 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8482 / -122.2952	CLIENT: ENVIRON International Corporation CONTACT: Dan Clark INQUIRY#: 3559167.4 RESEARCH DATE: 03/27/2013

Historical Topographic Map



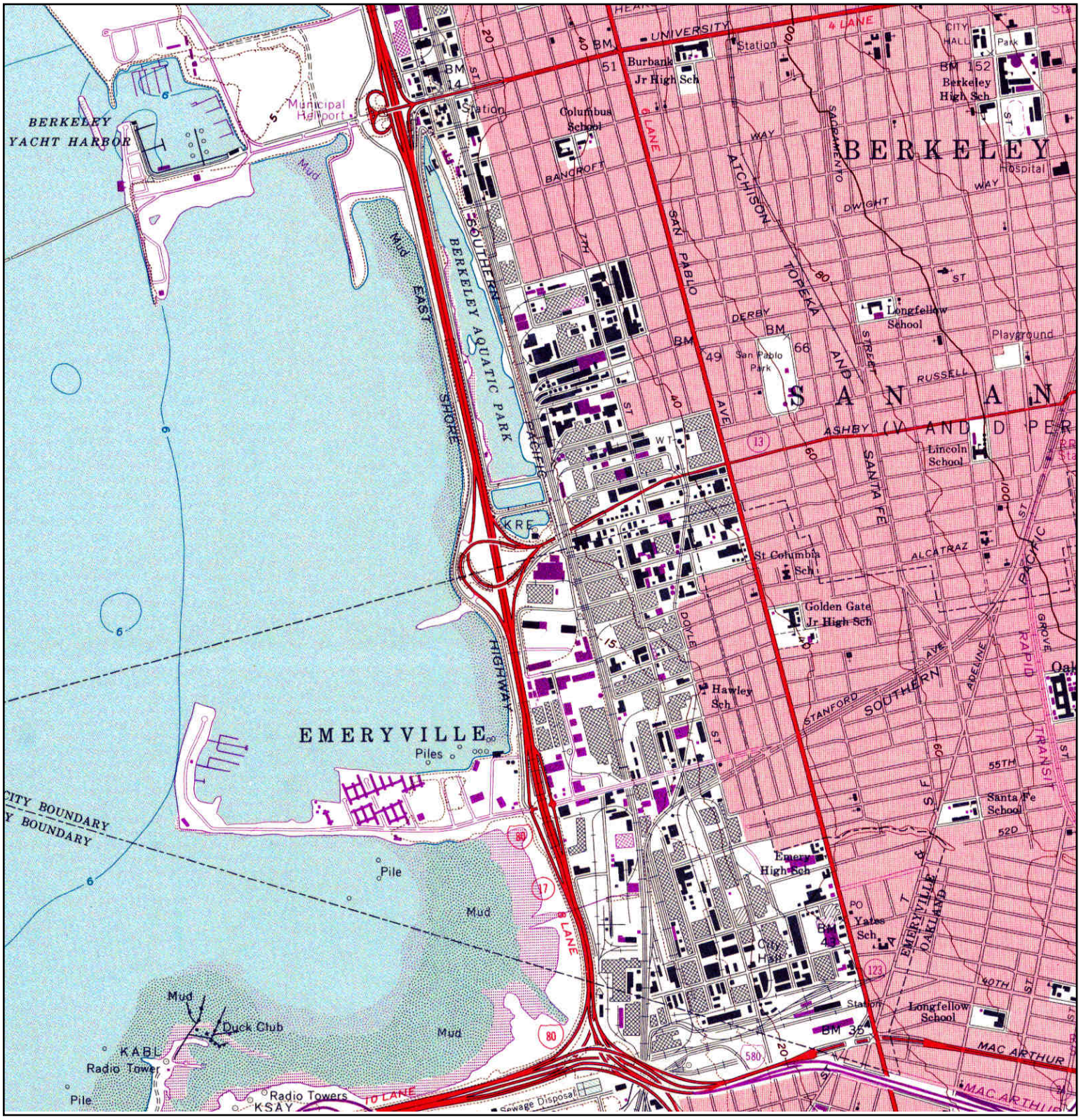
N	**TARGET QUAD** NAME: OAKLANDWEST MAP YEAR: 1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Nady Systems ADDRESS: 6707 Bay Street A.K.A. 6701 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8482 / -122.2952	CLIENT: ENVIRON International Corporation CONTACT: Dan Clark INQUIRY#: 3559167.4 RESEARCH DATE: 03/27/2013

Historical Topographic Map



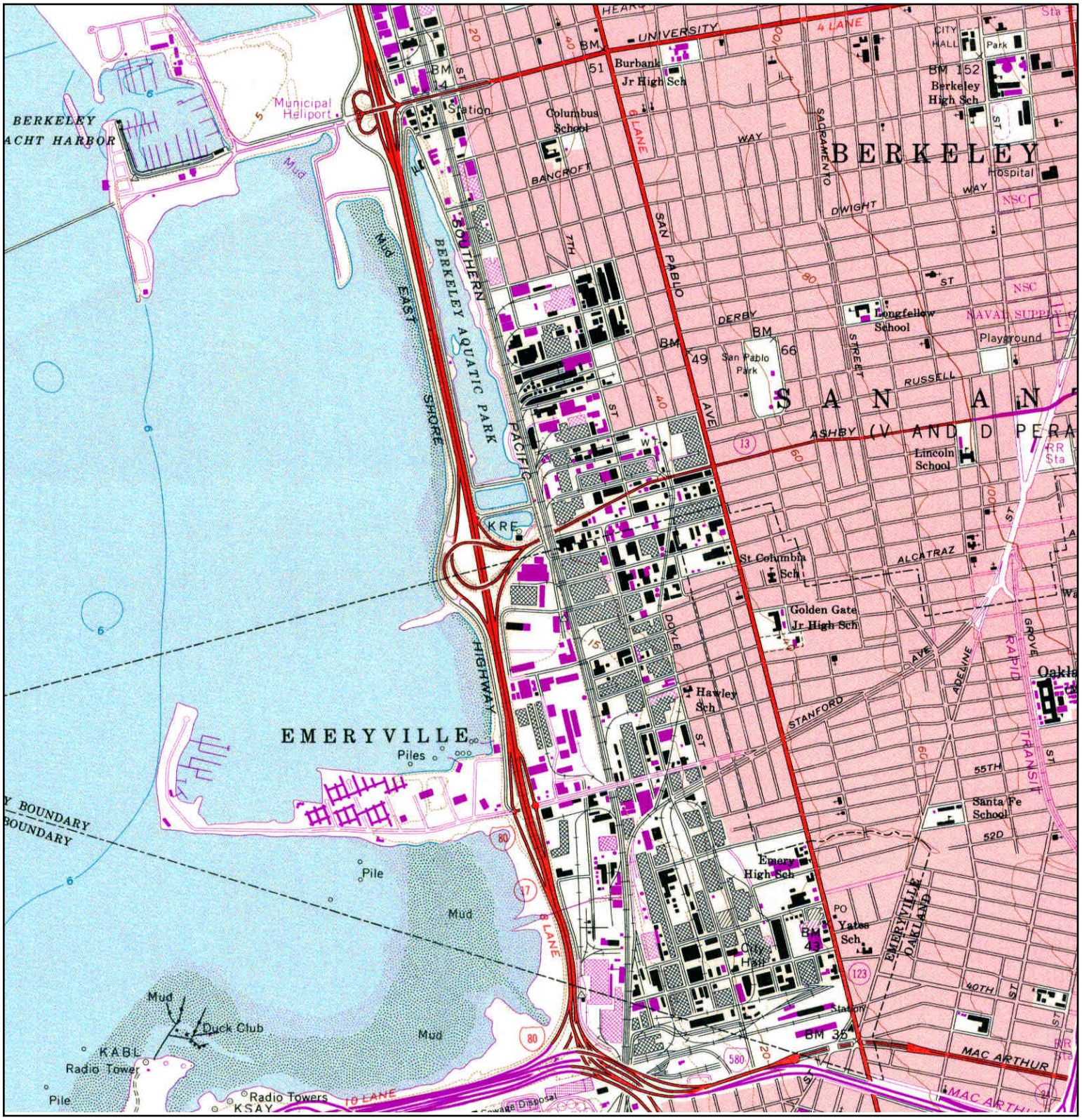
N	TARGET QUAD NAME: OAKLANDWEST MAP YEAR: 1968 PHOTOREVISED FROM :1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Nady Systems ADDRESS: 6707 Bay Street A.K.A. 6701 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8482 / -122.2952	CLIENT: ENVIRON International Corporation CONTACT: Dan Clark INQUIRY#: 3559167.4 RESEARCH DATE: 03/27/2013

Historical Topographic Map



N	TARGET QUAD NAME: OAKLANDWEST MAP YEAR: 1973 PHOTOREVISED FROM :1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Nady Systems ADDRESS: 6707 Bay Street A.K.A. 6701 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8482 / -122.2952	CLIENT: ENVIRON International Corporation CONTACT: Dan Clark INQUIRY#: 3559167.4 RESEARCH DATE: 03/27/2013

Historical Topographic Map



N	TARGET QUAD				
	NAME:	OAKLANDWEST	SITE NAME:	Nady Systems	CLIENT: ENVIRON International Corporation
	MAP YEAR:	1980	ADDRESS:	6707 Bay Street A.K.A. 6701 Shellmound Street	CONTACT: Dan Clark
	PHOTOREVISED FROM:	1959		Emeryville, CA 94608	INQUIRY#: 3559167.4
	SERIES:	7.5	LAT/LONG:	37.8482 / -122.2952	RESEARCH DATE: 03/27/2013
	SCALE:	1:24000			

Historical Topographic Map



N	TARGET QUAD NAME: OAKLAND WEST MAP YEAR: 1993 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Nady Systems ADDRESS: 6707 Bay Street A.K.A. 6701 Shellmound Street Emeryville, CA 94608 LAT/LONG: 37.8482 / -122.2952	CLIENT: ENVIRON International Corporation CONTACT: Dan Clark INQUIRY#: 3559167.4 RESEARCH DATE: 03/27/2013

Appendix C.2

Aerial Photographs

Appendix C.3

Abstract of City Directories

Nady Systems
6707 Bay Street A.K.A. 6701 Shellmound Street
Emeryville, CA 94608

Inquiry Number: 3559167.6
March 27, 2013

The EDR-City Directory Abstract

Environmental Data Resources Inc

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

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

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

RESEARCH SUMMARY

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

Year	Source	TP	Adjoining	Text Abstract	Source Image
2012	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2007	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Haines Company, Inc.	X	X	X	-
2002	R. L. Polk & Co.	-	-	-	-
2000	Pacific Bell	-	X	X	-
1996	PACIFIC BELL DIRECTORY	-	X	X	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	-	X	X	-
1991	PACIFIC BELL WHITE PAGES	-	X	X	-
1986	PACIFIC BELL WHITE PAGES	-	X	X	-
1984	Pacific Bell	-	-	-	-
1982	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	-	X	X	-
1979	Pacific Telephone	-	-	-	-
1976	Pacific Telephone	-	-	-	-
1975	Pacific Telephone	-	X	X	-
1973	Pacific Telephone	-	-	-	-
1970	Pacific Telephone Directory	-	X	X	-
1967	R. L. Polk & Co.	-	X	X	-
1965	R. L. Polk & Co.	-	X	X	-
1962	Pacific Telephone	-	X	X	-
1960	Pacific Telephone	-	-	-	-
1959	R. L. Polk & Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1956	Pacific Telephone	-	-	-	-
1955	The Pacific Telephone & Telegraph Co.	-	X	X	-
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	X	X	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	X	X	-
1943	R. L. Polk & Co.	-	X	X	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	X	X	-
1933	R. L. Polk & Co.	-	X	X	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R.L. Polk and Co of California	-	X	X	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	X	X	-
1920	R. L. Polk & Co. of California	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
6601 Shellmound Street	Client Entered	X
1494 67th Street	Client Entered	X
1490 66th Street	Client Entered	X
1451 66th Street	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

6707 Bay Street A.K.A. 6701 Shellmound Street
Emeryville, CA 94608

FINDINGS DETAIL

Target Property research detail.

SHELLMOUND ST

6701 SHELLMOUND ST

Year	*Uses*	*Source*
2012	NADY SYSTEMS INCORPORATED	Cole Information Services
2007	NADY SYSTEMS INC	Cole Information Services
2006	NADYSYSTEMS INC	Haines Company, Inc.

FINDINGS

ADJOINING PROPERTY DETAIL

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

66TH

1501 66TH

Year	Uses	Source
1950	WERNER FRED H CONCRT PRODS	The Pacific Telephone & Telegraph Co.

66TH AV LO CKHAVN

1490 66TH AV LO CKHAVN

Year	Uses	Source
1950	MEHLHOFF JACOB R	The Pacific Telephone & Telegraph Co.

66TH AVN 5

1484 66TH AVN 5

Year	Uses	Source
1986	Jones Athelean	PACIFIC BELL WHITE PAGES
	Jones Augustus J	PACIFIC BELL WHITE PAGES

66TH AVSW EETWOOD

1478 66TH AVSW EETWOOD

Year	Uses	Source
1950	JOHSNSTON DAVID T R	The Pacific Telephone & Telegraph Co.

66TH AVTR INLDAD

1482 66TH AVTR INLDAD

Year	Uses	Source
1950	RAYMOND EDWIN F R	The Pacific Telephone & Telegraph Co.

66TH EMVL

1480 66TH EMVL

Year	Uses	Source
1980	Class S	Pacific Telephone

FINDINGS

1490 66TH EMVL

Year	Uses	Source
1980	Zimms Stores Inc	Pacific Telephone

66TH ST

1451 66TH ST

Year	Uses	Source
2012	CLIF BAR	Cole Information Services
	CLIF BAR & COMPANY	Cole Information Services
	CLIF BAR & COMPANY	Cole Information Services

1470 66TH ST

Year	Uses	Source
1928	h Simon lab R	R.L. Polk and Co of California

1472 66TH ST

Year	Uses	Source
2012	CALSTEAM	Cole Information Services
2007	CAL STEAM EAST BAY	Cole Information Services
2006	CAL STEAM EAST	Haines Company, Inc.
1996	CAL STEAM EAST BAY	PACIFIC BELL DIRECTORY

1475 66TH ST

Year	Uses	Source
2012	YUN MOO SOO INS AGT	Cole Information Services
	STATE FARM INSURANCE	Cole Information Services
2007	STATE FARM INSURANCE CO	Cole Information Services
	STATE FARM MUTUAL AUTO INSURANCE CO	Cole Information Services

1476 66TH ST

Year	Uses	Source
1967	DYMO PRODUCTS CO WHSE	R. L. Polk & Co.
1955	CHROMATIC TELEVISION LABORATORIES INC EMERYVILLE	The Pacific Telephone & Telegraph Co.

1480 66TH ST

Year	Uses	Source
2012	HOBART SALES COMPANY INC	Cole Information Services
	IOH INCORPORATED	Cole Information Services
2007	STEVE GERSTMAN SERVICES	Cole Information Services

FINDINGS

Year	Uses	Source
2007	HOBART BROTHERS & ASSOCIATES	Cole Information Services
2006	COMPANY INC	Haines Company, Inc.
	GACOWESTERN	Haines Company, Inc.
	ARCHITECTURAL	Haines Company, Inc.
	GACOWESTERN	Haines Company, Inc.
	ARCHITECTURAL	Haines Company, Inc.
	GERSTMAN STEVE	Haines Company, Inc.
	SERVICES	Haines Company, Inc.
	GERSTMAN STEVE	Haines Company, Inc.
	SERVICES	Haines Company, Inc.
	HOBART SALES	Haines Company, Inc.
	COMPANY INC	Haines Company, Inc.
	HOBART SALES	Haines Company, Inc.
1996	AZTEC HARVEST COFFEE CO	PACIFIC BELL DIRECTORY
	PACIFIC CARGO INSPECTION BUREAU	PACIFIC BELL DIRECTORY
1992	EXCLUSIVE GIFT	PACIFIC BELL DIRECTORY
1967	HAAS BROS WHOL LIQUOR	R. L. Polk & Co.
1955	HAAS BROTHERS WHSLE LIQR EMERYVILLE	The Pacific Telephone & Telegraph Co.

1490 66TH ST

Year	Uses	Source
2012	R & L WAREHOUSE DISTRIBUTION SERVICE	Cole Information Services
	R & L WAREHOUSE DISTRIBUTION SERVICE	Cole Information Services
2007	R & L WAREHOUSE DISTRIBUTION SERVICE	Cole Information Services
	R & L WAREHOUSE DISTRIBUTION SERVICE	Cole Information Services
2006	NO WHITE HORSE INN	Haines Company, Inc.
	R&LWRHSDISTBN	Haines Company, Inc.
1970	WEST CHEMICAL PRODUCTS INC EMERYVILLE	Pacific Telephone Directory
	LAZARUS LABORATORIES EMERYVILLE	Pacific Telephone Directory
1967	WEST CHEMICAL PRODUCTS INC	R. L. Polk & Co.
	DISINFECTANTS MFRS	R. L. Polk & Co.
1955	WEST DISINFECTING CO EMERYVILLE	The Pacific Telephone & Telegraph Co.

FINDINGS

1501 66TH ST

Year	Uses	Source
1955	WERNER FRED H CONCRT PRODS EMERYVILLE	The Pacific Telephone & Telegraph Co.
1945	KLINE CONCRETE BLOCK CO	The Pacific Telephone & Telegraph Co.

66th Street

1451 66th Street

Year	Uses	Source
2006	CHARLES	Haines Company, Inc.
	CHOCOLATES	Haines Company, Inc.

1490 66th Street

Year	Uses	Source
2006	R&LWRHSDISTBN	Haines Company, Inc.
	NO WHITE HORSE INN	Haines Company, Inc.
1980	Zimms Stores Inc	Pacific Telephone
1970	LAZARUS LABORATORIES EMERYVILLE	Pacific Telephone Directory
	WEST CHEMICAL PRODUCTS INC EMERYVILLE	Pacific Telephone Directory
1967	WEST CHEMICAL PRODUCTS INC	R. L. Polk & Co.
	DISINFECTANTS MFRS	R. L. Polk & Co.
1955	WEST DISINFECTING CO EMERYVILLE	The Pacific Telephone & Telegraph Co.
1950	MEHLHOFF JACOB R	The Pacific Telephone & Telegraph Co.

67TH

1460 67TH

Year	Uses	Source
1950	DEAN FLOYD W R	The Pacific Telephone & Telegraph Co.
	MC NAMES EUNICE MRS R	The Pacific Telephone & Telegraph Co.

1475 67TH

Year	Uses	Source
1950	METALCO	The Pacific Telephone & Telegraph Co.

1476 67TH

Year	Uses	Source
1950	BALDIZAN TONY R	The Pacific Telephone & Telegraph Co.
	BROWN TIBBETT R	The Pacific Telephone & Telegraph Co.

FINDINGS

1496 67TH

Year	Uses	Source
1950	ROBBINS MFG CO	The Pacific Telephone & Telegraph Co.
	CHAMBERLIN CO OF AMER	The Pacific Telephone & Telegraph Co.

1498 67TH

Year	Uses	Source
1950	COULTER STEEL & FORGE CO	The Pacific Telephone & Telegraph Co.

67TH AV LO CLTHAVN

1428 67TH AV LO CLTHAVN

Year	Uses	Source
1950	BOURNE E L MRS R	The Pacific Telephone & Telegraph Co.

67TH AVLO CKHAVN

1459 67TH AVLO CKHAVN

Year	Uses	Source
1950	VAN HAGEN MILTON R	The Pacific Telephone & Telegraph Co.

1465 67TH AVLO CKHAVN

Year	Uses	Source
1950	VIEIRA ALAN DUANE R	The Pacific Telephone & Telegraph Co.

67TH AVSW EETOCCD

1435 67TH AVSW EETOCCD

Year	Uses	Source
1950	LUNA HERMAN A R	The Pacific Telephone & Telegraph Co.

67TH AVSW EETWOOD

1447 67TH AVSW EETWOOD

Year	Uses	Source
1950	SMITH MARGARET R	The Pacific Telephone & Telegraph Co.

67TH BROOK

1428 67TH BROOK

Year	Uses	Source
1980	Robinson Johnnie Dell Mrs	Pacific Telephone

FINDINGS

1429 67TH BROOK

Year	Uses	Source
1980	Sims Chas	Pacific Telephone
	Smith Eva P Mrs	Pacific Telephone

1432 67TH BROOK

Year	Uses	Source
1980	Iles Andrew G	Pacific Telephone

1436 67TH BROOK

Year	Uses	Source
1980	Clayton Richard J	Pacific Telephone

1439 67TH BROOK

Year	Uses	Source
1980	Ferrogiaro Silvio Mrs	Pacific Telephone

1440 67TH BROOK

Year	Uses	Source
1980	Hill Moses	Pacific Telephone

67TH EMVL

1450 67TH EMVL

Year	Uses	Source
1980	FARMER BROTHERS COFFEE COMPANY	Pacific Telephone

1462 67TH EMVL

Year	Uses	Source
1980	Van Wagoner Wayne T & Associates Inc	Pacific Telephone
	Investigative Consultants International	Pacific Telephone

1475 67TH EMVL

Year	Uses	Source
1980	METALCO	Pacific Telephone

1482 67TH EMVL

Year	Uses	Source
1980	Clearprint Paper Co	Pacific Telephone

FINDINGS

1483 67TH EMVL

Year	*Uses*	*Source*
1980	MONARCH TOOL & ENGINEERING INC die makrs	Pacific Telephone

1489 67TH EMVL

Year	*Uses*	*Source*
1980	Ofc	Pacific Telephone

1494 67TH EMVL

Year	*Uses*	*Source*
1980	Coulter Steel & Forge Company	Pacific Telephone

1499 67TH EMVL

Year	*Uses*	*Source*
1980	K & M Stress Inc	Pacific Telephone

67TH EW

1499 67TH EW

Year	*Uses*	*Source*
1986	Tusler Theodore	PACIFIC BELL WHITE PAGES

67TH ORK

1428 67TH ORK

Year	*Uses*	*Source*
1991	Robinson Johnnie Dell Mrs	PACIFIC BELL WHITE PAGES

67TH ST

1428 67TH ST

Year	*Uses*	*Source*
1970	POPE JOHNNIE DELL MRS BERKELEY	Pacific Telephone Directory
1938	GORDON RICHARD R	Pacific Telephone
1933	GORDON WM H BERKELEY	R. L. Polk & Co.
	GORDON RICHD CLK R BERKELEY	R. L. Polk & Co.
	GORDON DOROTHY INSPR CALIF PKG CORP R	R. L. Polk & Co.
1928	av Dinah lab R	R.L. Polk and Co of California
	t Wm Nettle lab H	R.L. Polk and Co of California

FINDINGS

1429 67TH ST

Year	Uses	Source
1970	SIMS CHAS BERKELEY	Pacific Telephone Directory
1955	JACKSON MOSES BERKELEY	The Pacific Telephone & Telegraph Co.
	PLUMER AMANDA MRS BERKELEY	The Pacific Telephone & Telegraph Co.
	SMITH EVA POPE MRS BERKELEY	The Pacific Telephone & Telegraph Co.
1945	CASTRO FRANK A R BERKELEY	The Pacific Telephone & Telegraph Co.
	HARKINS E B R BERKELEY	The Pacific Telephone & Telegraph Co.
	KING J C R BERKELEY	The Pacific Telephone & Telegraph Co.
1933	KENWORTHY MALISSA E (WID JAS) H BERKELEY	R. L. Polk & Co.
	AVERY ROY R BERKELEY	R. L. Polk & Co.
	DUTRA GEO W (AGNES) LAB H BERKELEY	R. L. Polk & Co.
1928	Kohler Christine fctywkr R	R.L. Polk and Co of California
	Manuel Mary H	R.L. Polk and Co of California
	191 Myrtle fctywkr R	R.L. Polk and Co of California
	Market Jas A Melissa E H	R.L. Polk and Co of California
	Market Earl W R	R.L. Polk and Co of California

1430 67TH ST

Year	Uses	Source
1955	FRIES KEN W BERKELEY	The Pacific Telephone & Telegraph Co.
	BREWEN A E BERKELEY	The Pacific Telephone & Telegraph Co.
1945	BREWEN A E R BERKELEY	The Pacific Telephone & Telegraph Co.
1933	MORGAN CONSTANCE C STEN MARCHANT CALCULATING MACH CO R BERKELEY	R. L. Polk & Co.
1928	MORGAN Confidence C sten Merchant Calc Mach Co H	R.L. Polk and Co of California
	Helen bkpr Ohinn Beretta Optical Co R	R.L. Polk and Co of California
	Maede Barbara L stdt H	R.L. Polk and Co of California

1431 67TH ST

Year	Uses	Source
1933	SMITH ANGELINA (WID A C) H BERKELEY	R. L. Polk & Co.
1928	mount Angelina E Mrs H	R.L. Polk and Co of California

1432 67TH ST

Year	Uses	Source
1970	FIELDS MARY MRS BERKELEY	Pacific Telephone Directory

FINDINGS

Year	Uses	Source
1955	FIELDS MARY MRS BERKELEY	The Pacific Telephone & Telegraph Co.
1945	CUNHA C C R BERKELEY	The Pacific Telephone & Telegraph Co.
1938	ROBECK MARGARET R	Pacific Telephone

1436 67TH ST

Year	Uses	Source
1970	CLAYTON RICHARD J BERKELEY	Pacific Telephone Directory
1955	LEE WILLIE BERKELEY	The Pacific Telephone & Telegraph Co.
	CLAYTON RICHARD J R BERKELEY	The Pacific Telephone & Telegraph Co.
	ALLEN GEO BERKELEY	The Pacific Telephone & Telegraph Co.
1945	LERVIK K CAPT R BERKELEY	The Pacific Telephone & Telegraph Co.
1938	LERVIK K CAPT R	Pacific Telephone
1928	side Claude D Eliz A H	R.L. Polk and Co of California

1439 67TH ST

Year	Uses	Source
1970	FERROGIARO SILVIO MRS BERKELEY	Pacific Telephone Directory
1955	FERROGIARO SILVIO MRS BERKELEY	The Pacific Telephone & Telegraph Co.
1945	SERENA MARY R BERKELEY	The Pacific Telephone & Telegraph Co.
1933	SERENA EMIL (MARY) AUTO MECH R BERKELEY	R. L. Polk & Co.
	MINELLONO STEVE (LUCY) H BERKELEY	R. L. Polk & Co.
	MINELLONO ROBT R BERKELEY	R. L. Polk & Co.
1928	Bi Sco Claude E Mary H	R.L. Polk and Co of California

1440 67TH ST

Year	Uses	Source
1955	LERVIK K CAPT BERKELEY	The Pacific Telephone & Telegraph Co.
1933	LIND SOPHIE (WID EDW) H BERKELEY	R. L. Polk & Co.
	LERRICK KARL (ELVIRA) R BERKELEY	R. L. Polk & Co.
1928	Lervik Karl Elvira H	R.L. Polk and Co of California
1925	LERVIK CAPT K R	R. L. Polk & Co. of California

1441 67TH ST

Year	Uses	Source
1970	BERINGER FRED C BERKELEY	Pacific Telephone Directory
1955	BERINGER FRED C BERKELEY	The Pacific Telephone & Telegraph Co.
1945	BUCHANAN EVA MRS R BERKELEY	The Pacific Telephone & Telegraph Co.
1938	BUCHANAN EVA MRS R	Pacific Telephone

FINDINGS

Year	Uses	Source
1933	BUCHANAN FRANK V (EVA) ELECTN H BERKELEY	R. L. Polk & Co.
1928	av Prank V Eva E pntr Johnson Washer Co H	R.L. Polk and Co of California
1925	BUCHANAN F V R	R. L. Polk & Co. of California

1450 67TH ST

Year	Uses	Source
2012	COOPERATIVE GROCERY	Cole Information Services
1996	MCKAY COMPANY	PACIFIC BELL DIRECTORY
1992	SEPHTON WATER TECHNOLOGY	PACIFIC BELL DIRECTORY
1991	Sephus Melvina	PACIFIC BELL WHITE PAGES
	Sephton Water Technology	PACIFIC BELL WHITE PAGES
1975	FEDERAL LAND BANK OF BERKELEY	Pacific Telephone
1970	FARMER BROTHERS COFFEE COMPANY EMERYVILLE	Pacific Telephone Directory
1967	FARMER BROS COFFEE CO WHOL	R. L. Polk & Co.

1459 67TH ST

Year	Uses	Source
1928	land Mary B Mrs br mgr Mutual Stores R	R.L. Polk and Co of California

1460 67TH ST

Year	Uses	Source
1955	MCNAMES CHAS E R EMERYVILLE	The Pacific Telephone & Telegraph Co.
	MCNAMES EUNICE R EMERYVILLE	The Pacific Telephone & Telegraph Co.
1943	Furtado Manuel Irene tmstr r	R. L. Polk & Co.
1933	KOTONEN JOHN (HILMAR) H	R. L. Polk & Co.
1928	Tank Clinton C lab R	R.L. Polk and Co of California
	Lewis Henry driver R	R.L. Polk and Co of California
	Spowers Geo chauf R	R.L. Polk and Co of California
	Seretes John Louise M H	R.L. Polk and Co of California

1462 67TH ST

Year	Uses	Source
2012	BEAUTY CENTER	Cole Information Services
2007	BEAUTY CENTER INC	Cole Information Services
2006	WRHS&OFC	Haines Company, Inc.
	BEAUTYCNTR	Haines Company, Inc.
1996	BEAUTY CENTER	PACIFIC BELL DIRECTORY
1975	BOS MFG CO	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	O NEILL R J CORP EMERYVILLE	Pacific Telephone Directory
	O NEILL RAYMOND J CO EMERYVILLE	Pacific Telephone Directory
1967	0&NEILL RAYMOND CO CONSULTING	R. L. Polk & Co.
1962	Chapman Valve Mfg Co	Pacific Telephone
1943	Morris Louis J Marie lab h	R. L. Polk & Co.
1933	MORRIS LOUIS (MARY) LAB H	R. L. Polk & Co.
1928	tana Frank Rose lab H	R.L. Polk and Co of California
1925	SHEEHAN J R	R. L. Polk & Co. of California
1920	SHEEHAN J R	R. L. Polk & Co. of California

1464 67TH ST

Year	Uses	Source
2012	ADMAC DIGITAL IMAGING	Cole Information Services
2007	ADMAC DIGITAL IMAGING	Cole Information Services
	ADMAC PREPRESS INC	Cole Information Services
1996	KELLY MARTY PHOTOGRAPHER	PACIFIC BELL DIRECTORY
	RAINBO GRAPHIX	PACIFIC BELL DIRECTORY
	ADMAC PREPRESS	PACIFIC BELL DIRECTORY
1970	B O S MFG CO EMERYVILLE	Pacific Telephone Directory
	BOS MFG CO	Pacific Telephone Directory
1967	B 0 S MACHINE SHOP	R. L. Polk & Co.

1471 67TH ST

Year	Uses	Source
2012	ARTHUR FREYER LIGHTING SERVICES	Cole Information Services
2006	ARTHUR FREYER	Haines Company, Inc.
	LIGHTING	Haines Company, Inc.

1472 67TH ST

Year	Uses	Source
1933	MENDONCA JOS LAB R	R. L. Polk & Co.
1928	Glendale Wm E lab H	R.L. Polk and Co of California
	Lake Chas slsmn R	R.L. Polk and Co of California

1475 67TH ST

Year	Uses	Source
2012	METALCO	Cole Information Services
	CA CONTRACT COMPANY	Cole Information Services
2007	METALCO	Cole Information Services
2006	METALCO	Haines Company, Inc.

FINDINGS

Year	Uses	Source
1996	METALCO	PACIFIC BELL DIRECTORY
1992	METALCO	PACIFIC BELL DIRECTORY
1975	METALCO	Pacific Telephone
1970	METAL CO EMERYVILLE	Pacific Telephone Directory
1967	METALCO ANODIZERS 652 747 C	R. L. Polk & Co.
1955	METALCO EMERYVILLE	The Pacific Telephone & Telegraph Co.

1476 67TH ST

Year	Uses	Source
1955	ORTIZ ENCARNACION EMERYVILLE	The Pacific Telephone & Telegraph Co.
1933	SEYMOUR FRANK (SARAH) H	R. L. Polk & Co.
1928	Seymour Frank Sarah spi police H	R.L. Polk and Co of California

1477 67TH ST

Year	Uses	Source
1945	CLARK C B R	The Pacific Telephone & Telegraph Co.
1928	Seeba Aug carp H	R.L. Polk and Co of California

1478 67TH ST

Year	Uses	Source
1945	BYARS CHARLES R EMERYVILLE	The Pacific Telephone & Telegraph Co.
1933	SOUZA FRANK (CANDID) LAB H	R. L. Polk & Co.
	SOUZA ANTONE R	R. L. Polk & Co.
1928	G Glenn Helen H	R.L. Polk and Co of California
	Shatter Cecil lab R	R.L. Polk and Co of California
	Grove Bertha R	R.L. Polk and Co of California

1482 67TH ST

Year	Uses	Source
2012	GIAMPOLINI INC	Cole Information Services
2007	CLEARPRINT PAPER CO	Cole Information Services
	QUALITY TRADE SALES	Cole Information Services
2006	GIAMPOLINI INC	Haines Company, Inc.
1996	CLEARPRINT PAPER CO	PACIFIC BELL DIRECTORY
	CLEARPRINT PAPER CO	PACIFIC BELL DIRECTORY
1992	CLEARPRINT PAPER CO	PACIFIC BELL DIRECTORY
1991	Cleary A A	PACIFIC BELL WHITE PAGES
	Clearprint Paper Co	PACIFIC BELL WHITE PAGES
1975	CLEARPRINT PAPER CO	Pacific Telephone
1970	CLEARPRINT PAPER CO EMERYVILLE	Pacific Telephone Directory

FINDINGS

Year	Uses	Source
1967	PRODUCTS	R. L. Polk & Co.
	CLEARPRINT PAPER CO PAPER	R. L. Polk & Co.
1955	CLEARPRINT PAPER CO EMERYVILLE	The Pacific Telephone & Telegraph Co.

1483 67TH ST

Year	Uses	Source
2012	JAYCO HAWAIICALIFORNIA	Cole Information Services
	ARCHITECTUAL METAL WORKS	Cole Information Services
	QUICK MOUNT PV	Cole Information Services
2007	JAYCO HAWAII CALIFORNIA INC	Cole Information Services
2006	WENTWORTH	Haines Company, Inc.
	JAYCO HI CA	Haines Company, Inc.
	MICHAEL	Haines Company, Inc.
1996	MONARCH TOOL & ENGINEERING INC	PACIFIC BELL DIRECTORY
1992	MONARCH TOOL & ENGINEERING INC	PACIFIC BELL DIRECTORY
	KINDORF ENGINEERING CO	PACIFIC BELL DIRECTORY
1970	CABLE DISTRIBUTORS OF SAN FRANCISCO INC EMERYVILLE	Pacific Telephone Directory
	SUPERIOR RIGGING CORP EMERYVILLE	Pacific Telephone Directory
1967	C 8 C BEARING CORP WHSE	R. L. Polk & Co.
1955	EAST BAY BEVERAGE CO EMERYVILLE	The Pacific Telephone & Telegraph Co.
	FALSTAFF BEER DISTRS EMERYVILLE	The Pacific Telephone & Telegraph Co.
1928	bany Wm pntr H	R.L. Polk and Co of California
1925	TRINIDAD FRANK R	R. L. Polk & Co. of California

1484 67TH ST

Year	Uses	Source
2007	COULTER FORGE TECHNOLOGY	Cole Information Services
2006	ADMAC PREPRess	Haines Company, Inc.
	IMAGING	Haines Company, Inc.
	ADMAC DIGITIAL	Haines Company, Inc.
1928	Max lab H	R.L. Polk and Co of California

1487 67TH ST

Year	Uses	Source
2012	ENGINEWORLD	Cole Information Services
2007	ENGINEWORLD LLC	Cole Information Services
2006	ENGINewo RLD	Haines Company, Inc.

FINDINGS

1488 67TH ST

Year	Uses	Source
1955	DIETERICH POST CO	The Pacific Telephone & Telegraph Co.

1489 67TH ST

Year	Uses	Source
1992	CORDER WALTER O	PACIFIC BELL DIRECTORY
1970	CORDER WALTER O	Pacific Telephone Directory
1967	CORDER WALTER 0 CO MFR AGTS	R. L. Polk & Co.

1490 67TH ST

Year	Uses	Source
2006	R & L WRHS DISTBN	Haines Company, Inc.
1996	R & L WAREHOUSE DISTRIBUTION SERVICES	PACIFIC BELL DIRECTORY

1492 67TH ST

Year	Uses	Source
1955	CHAMBERLIN CO OF AMERICA	The Pacific Telephone & Telegraph Co.
	CHAMBERLIN CO OF AMERICA	The Pacific Telephone & Telegraph Co.

1493 67TH ST

Year	Uses	Source
1967	SAINT REGIS PAPER CO WHSE	R. L. Polk & Co.

1494 67TH ST

Year	Uses	Source
2012	COULTER STEEL & FORGE CO	Cole Information Services
	COULTER STEEL & FORGE CO	Cole Information Services
2006	COULTER STEELS	Haines Company, Inc.
	FORGE CO	Haines Company, Inc.
1996	COULTER STEEL & FORGE COMPANY	PACIFIC BELL DIRECTORY
1992	COULTER STEEL & FORGE COMPANY	PACIFIC BELL DIRECTORY
1975	COULTER STEEL & FORGE COMPANY	Pacific Telephone
1970	COULTER STEEL & FORGE COMPANY EMERYVILLE	Pacific Telephone Directory
1967	COULTER STEEL & FORGE CO	R. L. Polk & Co.
	FORGING MFRS	R. L. Polk & Co.
1955	COULTER STEEL & FORGE COMPANY EMERYVILLE	The Pacific Telephone & Telegraph Co.
1945	BARCELLOS WM R	The Pacific Telephone & Telegraph Co.
1943	Barcellos Wm Mary coremkr r	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1938	BARCELLOS WM R	Pacific Telephone
1933	BARCELLOS WM (MARY) MLDR H	R. L. Polk & Co.
1928	Bercellos Wm Mary mldr H	R.L. Polk and Co of California
	Bercellos Wm jr R	R.L. Polk and Co of California
	Wm mcoremkr R	R.L. Polk and Co of California
	Bercellos Frank Mary R	R.L. Polk and Co of California

1496 67TH ST

Year	Uses	Source
1945	COULTER SIBBETT STEEL CO EMERYVILLE	The Pacific Telephone & Telegraph Co.
	BERKELEY FORGE SEE COULTER-SIBBETT STEEL CO EMERYVILLE	The Pacific Telephone & Telegraph Co.
	SIBBETT GEO E COULTER SIBBETT STEEL CO EMERYVILLE	The Pacific Telephone & Telegraph Co.

1499 67TH ST

Year	Uses	Source
2006	ENGINewo RLD	Haines Company, Inc.
1996	HOBART BROS & ASSOCIATES	PACIFIC BELL DIRECTORY
	HARMON CONTRACT WSA INC	PACIFIC BELL DIRECTORY
	67TH	PACIFIC BELL DIRECTORY
	R & L WAREHOUSE DISTRIBUTION SERVICES	PACIFIC BELL DIRECTORY
1992	JOHNSON C LLOYD CO	PACIFIC BELL DIRECTORY
	RYPINS-LIPINSKI & ASSOC	PACIFIC BELL DIRECTORY
	HOBART BROS & ASSOCIATES	PACIFIC BELL DIRECTORY
	R & L WAREHOUSE DISTRIBUTION SERVICES	PACIFIC BELL DIRECTORY
1991	Cooley Roofing Systems Rep	PACIFIC BELL WHITE PAGES
	Cooley V	PACIFIC BELL WHITE PAGES
	Coolidge CE	PACIFIC BELL WHITE PAGES
	Coolidge Carolyn P	PACIFIC BELL WHITE PAGES
	Coolidge David A & Nancy C Brk	PACIFIC BELL WHITE PAGES
	Johnson C Lloyd Co	PACIFIC BELL WHITE PAGES
	Johnson CM	PACIFIC BELL WHITE PAGES
	Johnson CR	PACIFIC BELL WHITE PAGES
	R & L Warehouse Distribution Services	PACIFIC BELL WHITE PAGES
	R & M Data Processing	PACIFIC BELL WHITE PAGES
	RM Dental Ceramics	PACIFIC BELL WHITE PAGES
1967	SAINT REGIS PAPER CO	R. L. Polk & Co.

Year	Uses	Source
1967	CONTAINER DIV PAPER	R. L. Polk & Co.
	PRODUCTS	R. L. Polk & Co.
1945	DELANEY J C R BERKELEY	The Pacific Telephone & Telegraph Co.
1938	JALOFSKI JOSEPH A R	Pacific Telephone
1933	JALOFSKI JOS A (FRANCES B) H BERKELEY	R. L. Polk & Co.
	STAFFORD EDW J R BERKELEY	R. L. Polk & Co.
1928	Jalofski Jos A Frances B H	R.L. Polk and Co of California

1500 67TH ST

Year	Uses	Source
1928	Bartl Albin H 0 Masdaline knitter H	R.L. Polk and Co of California

1523 67TH ST

Year	Uses	Source
1928	P Geo E Lillian M Leader Market H	R.L. Polk and Co of California

1537 67TH ST

Year	Uses	Source
1928	El Jack electn R	R.L. Polk and Co of California

67th Street

1494 67th Street

Year	Uses	Source
2006	COULTER STEELS	Haines Company, Inc.
	FORGE CO	Haines Company, Inc.
1996	COULTER STEEL & FORGE COMPANY	PACIFIC BELL DIRECTORY
1992	COULTER STEEL & FORGE COMPANY	PACIFIC BELL DIRECTORY
1980	Coulter Steel & Forge Company	Pacific Telephone
1975	COULTER STEEL & FORGE COMPANY	Pacific Telephone
1970	COULTER STEEL & FORGE COMPANY EMERYVILLE	Pacific Telephone Directory
1967	COULTER STEEL & FORGE CO	R. L. Polk & Co.
	FORGING MFRS	R. L. Polk & Co.
1955	COULTER STEEL & FORGE COMPANY EMERYVILLE	The Pacific Telephone & Telegraph Co.
1945	BARCELLOS WM R	The Pacific Telephone & Telegraph Co.
1943	Barcellos Wm Mary coremkr r	R. L. Polk & Co.
1938	BARCELLOS WM R	Pacific Telephone
1933	BARCELLOS WM (MARY) MLDR H	R. L. Polk & Co.

Year	Uses	Source
1928	Bercellos Frank Mary R	R.L. Polk and Co of California
	Bercellos Wm Mary mldr H	R.L. Polk and Co of California
	Bercellos Wm jr R	R.L. Polk and Co of California
	Wm mcoremkr R	R.L. Polk and Co of California

ASHBY

735 ASHBY

Year	Uses	Source
1950	UNITED STATES GOVERNMENT (CONTD) INTERNAL REVENUE SERVICE COLLECTOR OF INTER	The Pacific Telephone & Telegraph Co.

ASHBY AVE

601 ASHBY AVE

Year	Uses	Source
1986	Innermorphics Corp	PACIFIC BELL WHITE PAGES
	Inner City Broadcasting Corp Of Berkeley	PACIFIC BELL WHITE PAGES
	Business Office	PACIFIC BELL WHITE PAGES
	Music Info & Request Line	PACIFIC BELL WHITE PAGES
	K R E Request Contest Line	PACIFIC BELL WHITE PAGES
	KR E Talk Show Line	PACIFIC BELL WHITE PAGES
	KR E AM 1400	PACIFIC BELL WHITE PAGES
	Business Office	PACIFIC BELL WHITE PAGES
	Music Info & Request Line	PACIFIC BELL WHITE PAGES
	K R E REQUEST CONTEST LINE	PACIFIC BELL WHITE PAGES
	KRENZ OSCAR INC	PACIFIC BELL WHITE PAGES
	K R E AM	PACIFIC BELL WHITE PAGES
1980	Inner City Broadcasting Corp Of Berkeley	Pacific Telephone
	Business Office	Pacific Telephone
	Business Office	Pacific Telephone
1975	K R E KREATIVE RADIO AM-FM BRDCSTNG STN	Pacific Telephone
1970	K P A T SNOW PHONE BERKELEY	Pacific Telephone Directory
	K P A T RADIO STN AM FM BERKELEY	Pacific Telephone Directory
1962	K R E Broadcasting Stn	Pacific Telephone
	Office	Pacific Telephone
	Royal Recording Co	Pacific Telephone
1955	K R E BROADCASTING STATION BERKELEY	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1950	K P F A BROADCASTING STATION	The Pacific Telephone & Telegraph Co.
	ROYAL RECORDING CO	The Pacific Telephone & Telegraph Co.
1945	K R E BROADCASTING STATION BERKELEY	The Pacific Telephone & Telegraph Co.
1943	KRE Broadcasting Station Arth Westlund mgr	R. L. Polk & Co.
1938	STANDARD SOUND EQUIPMENT CO	Pacific Telephone
	K R E	Pacific Telephone

619 ASHBY AVE

Year	Uses	Source
1986	Lim Bong Ran	PACIFIC BELL WHITE PAGES
	Lim Bock C	PACIFIC BELL WHITE PAGES
	Lin Allen	PACIFIC BELL WHITE PAGES
	Lim B B	PACIFIC BELL WHITE PAGES

735 ASHBY AVE

Year	Uses	Source
1996	WEATHERFORD BM W	PACIFIC BELL DIRECTORY
	WEATHERFORD MITSUBISHI	PACIFIC BELL DIRECTORY
1992	WEATHERFORD BMW	PACIFIC BELL DIRECTORY
1991	W E ATHE RFORD BMW	PACIFIC BELL WHITE PAGES
1986	i Barker Associates Inc	PACIFIC BELL WHITE PAGES
	BERKELEY BODY SHOP	PACIFIC BELL WHITE PAGES
	SOUTHWICK GROUP	PACIFIC BELL WHITE PAGES
	TOYOTA BERKELEY	PACIFIC BELL WHITE PAGES
	BERKELEY NISSAN DATSUN	PACIFIC BELL WHITE PAGES
1980	BARKER MACHINERY SALES INC	Pacific Telephone
	Keim Welding	Pacific Telephone
1975	AIRCO INC	Pacific Telephone
1970	BECHTEL CORP BERKELEY	Pacific Telephone Directory
	AIRCO VACUUM METALS DIVISION OF AIR REDUCTION INC BERKELEY	Pacific Telephone Directory
1962	Ateco Forge Divison of Amer Tractor Equipment Corp	Pacific Telephone
1955	SHIPS & POWER EQUIPMENT CORP BERKELEY	The Pacific Telephone & Telegraph Co.
1945	AMER FORGE CO BERKELEY	The Pacific Telephone & Telegraph Co.

FINDINGS

ASHBY LN

601 ASHBY LN

Year	Uses	Source
1955	ROYAL RECORDING CO BERKELEY	The Pacific Telephone & Telegraph Co.
	K R E BROADCASTING STATION BERKELEY	The Pacific Telephone & Telegraph Co.
1945	ROYAL RECORDING CO BERKELEY	The Pacific Telephone & Telegraph Co.
	K R E BROADCASTING STATION BERKELEY	The Pacific Telephone & Telegraph Co.

ASHBY ST

735 ASHBY ST

Year	Uses	Source
2000	WEATHERFORD BMW	Pacific Bell

FOLGER AVE

708 FOLGER AVE

Year	Uses	Source
1962	Reliance Sheet & Strip Co	Pacific Telephone
	Rods Inc	Pacific Telephone
1955	RELIANCE SHEET & STRIP CO BERKELEY	The Pacific Telephone & Telegraph Co.
	RODS INC BERKELEY	The Pacific Telephone & Telegraph Co.
1950	RODS INC	The Pacific Telephone & Telegraph Co.

720 FOLGER AVE

Year	Uses	Source
1991	Grignard Co	PACIFIC BELL WHITE PAGES

721 FOLGER AVE

Year	Uses	Source
1933	ANDRE JOS F (ANNIE) TANNER H BERKELEY	R. L. Polk & Co.
	ANDRE JOS R BERKELEY	R. L. Polk & Co.
	ANDRE HENRY LAB R BERKELEY	R. L. Polk & Co.
	ANDRE ALBT (ELVIRA) R BERKELEY	R. L. Polk & Co.
1928	Alcatraz Jos P ir R	R.L. Polk and Co of California
	Alcatraz John L H	R.L. Polk and Co of California
1925	HENDRICKSON MRS L R	R. L. Polk & Co. of California

FINDINGS

Year	Uses	Source
1925	AUDRE J R	R. L. Polk & Co. of California
1920	ANDRE J R	R. L. Polk & Co. of California
	AUDRE J R	R. L. Polk & Co. of California

722 FOLGER AVE

Year	Uses	Source
1996	BERKELEY ARCHITECTURAL SALVAGE	PACIFIC BELL DIRECTORY
1991	Roberton & Schwartz Sales Co Inc	PACIFIC BELL WHITE PAGES
	Bryans Lift Service	PACIFIC BELL WHITE PAGES
	Bryans M	PACIFIC BELL WHITE PAGES
	Bryant A	PACIFIC BELL WHITE PAGES
	Bryant A L	PACIFIC BELL WHITE PAGES
	Bryant A & M	PACIFIC BELL WHITE PAGES
1986	ROBERTON & SCHWARTZ SALES CO INC	PACIFIC BELL WHITE PAGES
	Roberton & Schwartz Sales Co Inc	PACIFIC BELL WHITE PAGES
1982	RELIANCE SHEET & STRIP CO BERKELEY	Pacific Telephone
1980	Fox Industries	Pacific Telephone
	RELIANCE SHEET & STRIP CO	Pacific Telephone
1975	FOX INDUSTRIES	Pacific Telephone
1970	FOX INDUSTRIES BERKELEY	Pacific Telephone Directory
	RELIANCE SHEET & STRIP CO BERKELEY	Pacific Telephone Directory
1950	BERTOLANI ALBERT V R	The Pacific Telephone & Telegraph Co.
1945	WEAVER CLINTON E R BERKELEY	The Pacific Telephone & Telegraph Co.

725 FOLGER AVE

Year	Uses	Source
2012	CERTIFIED EXERCISE PROFESSIONALS	Cole Information Services
	MEYER CREST LIMITED	Cole Information Services
2007	LANCASPRING LLC	Cole Information Services
	EXERCISE PROFESSIONALS PERSONAL TRAI	Cole Information Services
	MEYER CREST LTD	Cole Information Services
2006	CERTIFIED	Haines Company, Inc.
	EXERCISE	Haines Company, Inc.
	PRFSSNLS	Haines Company, Inc.
	MEYERCRest	Haines Company, Inc.
	LIMITED	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2000	SENTERPRISE INC	Pacific Bell
	SENTERPRISE INC	Pacific Bell
1996	THORN AUTOMATED SYSTEMS INC	PACIFIC BELL DIRECTORY
1992	NOEL ASSOCIATES	PACIFIC BELL DIRECTORY
	AGENCY RENT-A-CAR	PACIFIC BELL DIRECTORY
	HENRY LLOYD B SR CONSULTING	PACIFIC BELL DIRECTORY
1991	N OE L AS S OCIATE S	PACIFIC BELL WHITE PAGES
1933	RAMOS ANTONE M (MARY) LAB H BERKELEY	R. L. Polk & Co.
	DENIZ JOHN LAB R BERKELEY	R. L. Polk & Co.
1928	Deniz John Angelina lab H	R.L. Polk and Co of California

733 FOLGER AVE

Year	Uses	Source
1950	CLAY NANIE W MRS R	The Pacific Telephone & Telegraph Co.
1928	45th Geo K Mary H	R.L. Polk and Co of California
1925	MEYER G K R	R. L. Polk & Co. of California

739 FOLGER AVE

Year	Uses	Source
1955	PONSANO TRANSPORTATION BERKELEY	The Pacific Telephone & Telegraph Co.

741 FOLGER AVE

Year	Uses	Source
2012	LUXURY LANDSCAPE	Cole Information Services
	GRING PEST CONTROL SERVICES	Cole Information Services
	RGS CONSTRUCTION	Cole Information Services
2007	ROBERT G SCHWIERS INC	Cole Information Services
2006	GRING PEST	Haines Company, Inc.
	CONTROL SERVICE	Haines Company, Inc.
2000	GRING PEST CONTROL SERVICE	Pacific Bell
1996	GRING PEST CONTROL SERVICE	PACIFIC BELL DIRECTORY
1992	GRING PEST CONTROL SERVICE	PACIFIC BELL DIRECTORY
1991	GRIN G PE S T CON TROL S E RVICE	PACIFIC BELL WHITE PAGES
	R G S Construction	PACIFIC BELL WHITE PAGES
1986	R G S Construction	PACIFIC BELL WHITE PAGES
	From Walnut Creek Telephones Call	PACIFIC BELL WHITE PAGES
	Gring Pest Control Service Inc	PACIFIC BELL WHITE PAGES
	From Vallejo Telephones Call	PACIFIC BELL WHITE PAGES

Year	Uses	Source
1986	GRING PEST CONTROL SERVICE	PACIFIC BELL WHITE PAGES
	R G S CONSTRUCTION	PACIFIC BELL WHITE PAGES
1980	GRING PEST CONTROL SERVICE	Pacific Telephone
1975	GRING PEST CONTROL SERVICE	Pacific Telephone
1970	GRING PEST CONTROL SERVICE BERKELEY	Pacific Telephone Directory
1965	GRINLG PEST CONTROL SERV	R. L. Polk & Co.
1962	Gring Pest Control Service	Pacific Telephone
	GRING TERMITE CONTROL	Pacific Telephone
1955	GRING GARDEN SPRAYING BERKELEY	The Pacific Telephone & Telegraph Co.
	HEATON S PEST CONTROL SERVICE BERKELEY	The Pacific Telephone & Telegraph Co.
	GRING PEST CONTROL SERVICE BERKELEY	The Pacific Telephone & Telegraph Co.
1950	GRING PEST CONTROL SERVICE	The Pacific Telephone & Telegraph Co.
	HEATON S PEST CONTROL SERVICE	The Pacific Telephone & Telegraph Co.

742 FOLGER AVE

Year	Uses	Source
1970	FRAN S SERVICE BERKELEY	Pacific Telephone Directory
	GOULTER FRANCIS FRAN S SERVICE BERKELEY	Pacific Telephone Directory
1962	Fruitvale Drayage	Pacific Telephone
1955	OERTLY BROS TRUCKING CO BERKELEY	The Pacific Telephone & Telegraph Co.
	ARROW TRUCKING CO BERKELEY	The Pacific Telephone & Telegraph Co.
1950	DE BOLD OTTO FUEL OIL TRANSPORTATION	The Pacific Telephone & Telegraph Co.

744 FOLGER AVE

Year	Uses	Source
2012	HOWLETT MACHINE WORKS	Cole Information Services
2007	HOWLETT MACHINE WORKS	Cole Information Services
2006	HOWLETTMACHINE	Haines Company, Inc.
	WORKS	Haines Company, Inc.
	HOWLETT MACHINE	Haines Company, Inc.
	WORKS	Haines Company, Inc.
2000	FOX HOWLETT INDUSTRIES	Pacific Bell
1996	FOX-HOWLETT INDUSTRIES	PACIFIC BELL DIRECTORY
1992	FOX-HOWLETT INDUSTRIES	PACIFIC BELL DIRECTORY
1991	Fox HowlettIndustries	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1970	POWER BOILER SALES INC BERKELEY	Pacific Telephone Directory
1955	GLUED LAMINATED PRODUCTS CO BERKELEY	The Pacific Telephone & Telegraph Co.
	BAYSHORE CONSTRUCTION CO BERKELEY	The Pacific Telephone & Telegraph Co.

746 FOLGER AVE

Year	Uses	Source
2012	HOWLETT MACHINE WORKS	Cole Information Services
2006	HOWLETTMACHINE	Haines Company, Inc.
	WORKS	Haines Company, Inc.
2000	HOWLETT MACHINE WORKS	Pacific Bell
1996	HOWLETT MACHINE WORKS	PACIFIC BELL DIRECTORY
1992	HOWLETT MACHINE WORKS	PACIFIC BELL DIRECTORY
1991	Howlett Sally	PACIFIC BELL WHITE PAGES
	HOW LE TT MACHIN E W ORKS	PACIFIC BELL WHITE PAGES
1986	HOWLETT MACHINE WORKS	PACIFIC BELL WHITE PAGES
	HOW LE TT MACHIN E W ORKS	PACIFIC BELL WHITE PAGES
1980	HOWLETT MACHINE WORKS	Pacific Telephone
1975	HOWLETT MACHINE WORKS	Pacific Telephone
1970	HOWLETT MACHINE WORKS BERKELEY	Pacific Telephone Directory
1962	Howlett Machine Works	Pacific Telephone
1955	HOWLETT MACHINE WORKS BERKELEY	The Pacific Telephone & Telegraph Co.

750 FOLGER AVE

Year	Uses	Source
1970	COLEMAN KENNETH L BERKELEY	Pacific Telephone Directory
1962	Dollar Jas H	Pacific Telephone
1955	TAYLOR GEO BERKELEY	The Pacific Telephone & Telegraph Co.
1950	AMARAL PAULINE R	The Pacific Telephone & Telegraph Co.
1945	MORRIS PEDRO R BERKELEY	The Pacific Telephone & Telegraph Co.
	MORRIS MARGARET R BERKELEY	The Pacific Telephone & Telegraph Co.
1933	SILVA FRANK H BERKELEY	R. L. Polk & Co.
	SALVADOR JOHN HLPR BKLY GARBAGE DEPT R BERKELEY	R. L. Polk & Co.
1928	Jacinto Jose Louisa lab H	R.L. Polk and Co of California

FINDINGS

751 FOLGER AVE

Year	Uses	Source
2012	MERCEDES AT MORAN MOTOSPORT	Cole Information Services
	TIRE & ALIGNMENT CENTER	Cole Information Services
2007	MORAN MOTORSPORT	Cole Information Services
	TOYOTA OF BERKELEY JOES TIRES	Cole Information Services
	TIRE & ALIGNMENT CENTER	Cole Information Services
2006	ALIGN CENTER	Haines Company, Inc.
	AUTOMALLTIREA	Haines Company, Inc.
1992	TOYOTA BERKELEY	PACIFIC BELL DIRECTORY
1991	Tire Dept	PACIFIC BELL WHITE PAGES
	Tire Dept	PACIFIC BELL WHITE PAGES
1986	T & M PARTS INC	PACIFIC BELL WHITE PAGES
	TRUCK & MACHINE SERVICE	PACIFIC BELL WHITE PAGES
	Truck & Machine Service	PACIFIC BELL WHITE PAGES
	T & M Parts Inc	PACIFIC BELL WHITE PAGES
1980	Truck & Machine Service	Pacific Telephone
	T & M Parts Inc	Pacific Telephone
1970	TRUCK & MACHINE SERVICE BERKELEY	Pacific Telephone Directory
1955	ROGERS ALFRED BERKELEY	The Pacific Telephone & Telegraph Co.
1950	ROGERS ALFRED R	The Pacific Telephone & Telegraph Co.
1945	ROGERS ALFRED R BERKELEY	The Pacific Telephone & Telegraph Co.
1943	ROGERS Alf h	R. L. Polk & Co.
1938	TASSO SECONDO D R	Pacific Telephone
1933	TASSO SECONDO MECH R BERKELEY	R. L. Polk & Co.
	TASSO ENRICO (MARY) GDNR H BERKELEY	R. L. Polk & Co.
	AMBROSE MARIA P H BERKELEY	R. L. Polk & Co.
1928	n Blnnieho Mtary adna H	R.L. Polk and Co of California
1925	TASSO MARY R	R. L. Polk & Co. of California

752 FOLGER AVE

Year	Uses	Source
1975	FOSTER S	Pacific Telephone
1970	PICKERING M V BERKELEY	Pacific Telephone Directory
1962	Zerby Wm Mrs	Pacific Telephone
1955	ZERBY WM MRS BERKELEY	The Pacific Telephone & Telegraph Co.
1950	ZERBY ETHEL MRS R	The Pacific Telephone & Telegraph Co.
1943	Murillo Alf A Margt shipydwkr h	R. L. Polk & Co.

Year	Uses	Source
1933	SANCHEZ EULALIA R BERKELEY	R. L. Polk & Co.
	SANCHEZ JOS (LUPE) H BERKELEY	R. L. Polk & Co.
	SANCHEZ LUIS LAB R BERKELEY	R. L. Polk & Co.

753 FOLGER AVE

Year	Uses	Source
2012	UNITECH	Cole Information Services
2007	UNITECH FOREIGN AUTO SERVICE	Cole Information Services
2006	UNITECH	Haines Company, Inc.
2000	UNITECH	Pacific Bell
1996	UNITECH	PACIFIC BELL DIRECTORY
1992	UNITECH	PACIFIC BELL DIRECTORY
1986	SCHEID INDUSTRIAL SUPPLY COMPANY	PACIFIC BELL WHITE PAGES
	S CHE ID IN DUS TRIAL S UPPLY COMPAN Y	PACIFIC BELL WHITE PAGES
1980	SCHEID INDUSTRIAL SUPPLY COMPANY	Pacific Telephone
1970	SCHEID INDUSTRIAL SUPPLY COMPANY BERKELEY	Pacific Telephone Directory
1945	KRAUSCH GEORGE R BERKELEY	The Pacific Telephone & Telegraph Co.
1943	Ambrose Anton Mary h	R. L. Polk & Co.
1933	AMBROSE ANTONE (MARY) WITH GRAYSON-OWEN PKG CO H BERKELEY	R. L. Polk & Co.
1928	Monez Frank lab R	R.L. Polk and Co of California
	Monez A P lab H	R.L. Polk and Co of California

754 FOLGER AVE

Year	Uses	Source
1970	MCCLOSKEY KEVIN BERKELEY	Pacific Telephone Directory
1962	Pick Chas W r	Pacific Telephone
1955	PICK CHAS W R BERKELEY	The Pacific Telephone & Telegraph Co.
1950	PICK CHAS W R	The Pacific Telephone & Telegraph Co.
1933	SCOTT HENRY H BERKELEY	R. L. Polk & Co.
1928	CARNEY Mary H	R.L. Polk and Co of California

755 FOLGER AVE

Year	Uses	Source
2012	HARRIS DESIGN	Cole Information Services
	W A DESIGN INC	Cole Information Services

Year	Uses	Source
2007	WILSON ASSOCIATES DESIGN & CONSTRUCT	Cole Information Services
1991	Stothers R Mrs	PACIFIC BELL WHITE PAGES
	Stothers T	PACIFIC BELL WHITE PAGES
1986	Stothers R Mrs	PACIFIC BELL WHITE PAGES
1980	Stothers R Mrs	Pacific Telephone
1970	STOTHERS ALBERT F JR MRS BERKELEY	Pacific Telephone Directory
1955	GEORGE LEROY BERKELEY	The Pacific Telephone & Telegraph Co.
1933	SILVA FERNANDO (JULIA) LNDYWKR R BERKELEY	R. L. Polk & Co.
	SILVA FRED LNDYWKR R BERKELEY	R. L. Polk & Co.
	SILVA RALPH R BERKELEY	R. L. Polk & Co.
1928	Va Jessla H	R.L. Polk and Co of California

SHELLMOUND ST

6601 SHELLMOUND ST

Year	Uses	Source
2012	EXPRESSION COLLEGE FOR DIGITAL ARTS	Cole Information Services
	EXPRESSION COLLEGE FOR DIGITAL ARTS	Cole Information Services
2006	EXPRess ION CTR	Haines Company, Inc.
	FOR New m EDIA	Haines Company, Inc.

Shellmound Street

6601 Shellmound Street

Year	Uses	Source
2006	EXPRess ION CTR	Haines Company, Inc.
	FOR New m EDIA	Haines Company, Inc.

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
6707 Bay Street A.K.A. 6701 Shellmound Street	2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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

Address Researched	Address Not Identified in Research Source
1428 67TH AV LO CLTHAVN	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1428 67TH BROOK	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1428 67TH ORK	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1428 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1932, 1926, 1925, 1920
1429 67TH BROOK	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1429 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1430 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1431 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1432 67TH BROOK	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1432 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1933, 1932, 1928, 1926, 1925, 1920
1435 67TH AVSW EETOCCD	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1436 67TH BROOK	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1436 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1933, 1932, 1926, 1925, 1920
1439 67TH BROOK	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1439 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1440 67TH BROOK	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1440 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1920
1441 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1932, 1926, 1920
1447 67TH AVSW EETWOOD	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1450 67TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1450 67TH ST	2012, 2007, 2006, 2002, 2000, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1450 67TH ST	2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1451 66TH ST	2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1451 66th Street	2012, 2007, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1459 67TH AVLO CKHAVN	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1459 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1460 67TH	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1460 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1462 67TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1462 67TH ST	2012, 2007, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1940, 1938, 1932, 1926
1462 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1464 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1464 67TH ST	2012, 2007, 2006, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1465 67TH AVLO CKHAVN	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1470 66TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1471 67TH ST	2012, 2007, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1471 67TH ST	2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1472 66TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1472 66TH ST	2012, 2007, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1472 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1475 66TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1475 67TH	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1475 67TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1475 67TH ST	2012, 2007, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1475 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1476 66TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1476 67TH	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1476 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1477 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1478 66TH AVSW EETWOOD	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1478 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1932, 1926, 1925, 1920
1480 66TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1480 66TH ST	2012, 2007, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1480 66TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1482 66TH AVTR INLDAD	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1482 67TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1482 67TH ST	2012, 2007, 2002, 2000, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1482 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1483 67TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1483 67TH ST	2012, 2007, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
1483 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1484 66TH AVN 5	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
1484 67TH ST	2012, 2007, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1484 67TH ST	2012, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1487 67TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1487 67TH ST	2012, 2007, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1488 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1489 67TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1489 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 66TH AV LO CKHAVN	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 66TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 66TH ST	2012, 2007, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 66TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 66TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 66th Street	2012, 2007, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1490 67TH ST	2012, 2007, 2002, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1492 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1493 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1494 67TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
1494 67TH ST	2012, 2007, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1932, 1926, 1925, 1920
1494 67TH ST	2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1494 67TH ST	2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1494 67th Street	2012, 2007, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1979, 1976, 1973, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1940, 1932, 1926, 1925, 1920
1496 67TH	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1496 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1498 67TH	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1499 67TH EMVL	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1499 67TH EW	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1499 67TH ST	2012, 2007, 2002, 2000, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1932, 1926, 1925, 1920
1500 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1501 66TH	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1501 66TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1523 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
1537 67TH ST	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
601 ASHBY AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1933, 1932, 1928, 1926, 1925, 1920
601 ASHBY LN	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
619 ASHBY AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6601 SHELLMOUND ST	2012, 2007, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6601 SHELLMOUND ST	2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6601 SHELLMOUND ST	2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
6601 Shellmound Street	2012, 2007, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
708 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
720 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
721 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926
722 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1993, 1992, 1984, 1979, 1976, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
725 FOLGER AVE	2012, 2007, 2002, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
725 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
733 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1920
735 ASHBY	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
735 ASHBY AVE	2012, 2007, 2006, 2002, 2000, 1993, 1984, 1982, 1979, 1976, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
735 ASHBY ST	2012, 2007, 2006, 2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
739 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
741 FOLGER AVE	2012, 2007, 2002, 1993, 1984, 1982, 1979, 1976, 1973, 1967, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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Address Researched	Address Not Identified in Research Source
741 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
742 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
744 FOLGER AVE	2012, 2007, 2002, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
744 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
746 FOLGER AVE	2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
746 FOLGER AVE	2012, 2007, 2002, 1993, 1984, 1982, 1979, 1976, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
750 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1943, 1940, 1938, 1932, 1926, 1925, 1920
751 FOLGER AVE	2012, 2007, 2002, 2000, 1996, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1946, 1940, 1932, 1926, 1920
751 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
752 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1940, 1938, 1932, 1928, 1926, 1925, 1920
753 FOLGER AVE	2012, 2007, 2002, 1993, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1940, 1938, 1932, 1926, 1925, 1920
753 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
754 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
755 FOLGER AVE	2012, 2007, 2006, 2002, 2000, 1996, 1993, 1992, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1926, 1925, 1920
755 FOLGER AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

Appendix C.4

Historical Fire Insurance Maps

Appendix D.1

Final Groundwater Monitoring Report

Groundwater Monitoring – May 1996 Event
Request for “No Further Action”
6707 Bay Street
Emeryville, California
Prepared by SCI
Dated June 21, 1996

Appendix D.2

1994 Deed Restriction

Environmental Remediation Notice
Prepared by First American Title
Dated October 20, 1994

PLEASE COMPLETE THIS INFORMATION

RECORDING REQUESTED BY:

WHEN RECORDED MAIL TO:
BRIAN BERGER
101 CALIFORNIA STREET
SUITE 3500
SAN FRANCISCO, CA 94111

Recorded in Official Records, Alameda County
Patrick O'Connell, Clerk-Recorder
22.00
95016143 12:01pm 01/25/95
005 26012665 26 10
A25 6 7.00 15.00 0.00 0.00 0.00 0.00 0.00

THIS SPACE FOR RECORDER'S USE ONLY

ENVIRONMENTAL REMEDIATION NOTICE
TITLE OF DOCUMENT

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
(Govt. Code 27361.6)
(Additional recording fee applies)

273-214
[Rev. 8/94]

1 6143

When recorded send to:
Brian Berger
101 California Street, Suite 3500
San Francisco, California 94111

NOTICE
Re: 6707 Bay Street
Emeryville, California

NOTICE is hereby given that extensive environmental investigations have been conducted on the property commonly known as 6707 Bay Street, Emeryville, California, a legal description of which is attached as Exhibit A hereto. These investigations have included analyzing soil and groundwater for the presence of hazardous substances. The investigations indicated that a number of hazardous substances exist within soil and groundwater at the site due to (1) the fact that the site is a reclaimed portion of San Francisco Bay initially used as an uncontrolled landfill and (2) subsequent industrial use of the site which included the installation of underground storage tanks (removed in 1989) which apparently released some portion of their contents, including certain volatile organic compounds, into the surrounding soil and groundwater. Substances detected include heavy metals, volatile organic compounds, petroleum hydrocarbons and semi-volatile organic compounds. Complete summaries of the substances detected in soil and groundwater are presented in the following documents prepared by Subsurface Consultants, Inc. (SCI):

1. Summary of Environmental Investigation/Remediation, 6707 Bay Street, Emeryville, California, dated May 23, 1994.

2. Supplemental MIBK Contamination Assessment, 6707 Bay Street, Emeryville, California, SCI 820.001, dated September 21, 1994.

These documents are contained within the public record, and are on file at the Alameda County Health Care Services Agency Environmental Health Services Department. Because of the presence of these substances, the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board for the San Francisco Bay Region have imposed the following conditions and/or restrictions on the use of the property:

1. If soil is excavated, it may be considered hazardous waste under state and federal law;

2. Groundwater from the site is not usable for domestic, irrigation or industrial purposes.

3. If future construction includes structures extending below the groundwater level (that being approximately 7 to 10 feet), groundwater generated during dewatering operations will require treatment prior to discharge;

4. An approved Health and Safety Plan will be required by the Alameda County Health Care Services Agency (ACHCSA) prior to any work requiring significant subsurface excavations; and
5. An environmental risk assessment may be required by the ACHCSA if any significant change in land use is proposed.

Dated: Oct 20, 1994, 1994 By: John Nady
John Nady
OWNER

State of California)
) SS.
County of San Francisco)

95016143

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT No. 5907

State of CALIFORNIA

County of ALAMEDA

On OCTOBER 20TH 1994 (DATE) before me, JOGINDER SINGH SOND NOTARY PUBLIC (NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC")

personally appeared JOHN NADY (NAME(S) OF SIGNER(S))

☐ personally known to me - **OR** - ☑ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

OFFICIAL SEAL
Joginder Singh Sond
NOTARY PUBLIC - CALIFORNIA
ALAMEDA COUNTY
My Comm. Expires Jan. 17, 1995

WITNESS my hand and official seal.

Joginder Singh Sond

SIGNATURE OF NOTARY

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

☐ INDIVIDUAL
☐ CORPORATE OFFICER

TITLE(S)

☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☒ OTHER: OWNER

SIGNER IS REPRESENTING:
NAME OF PERSON(S) OR ENTITY(IES)

DESCRIPTION OF ATTACHED DOCUMENT

ENVIRONMENTAL REMEDIATION NOTICE
TITLE OR TYPE OF DOCUMENT

NUMBER OF PAGES

10-20-94
DATE OF DOCUMENT

NONE
SIGNER(S) OTHER THAN NAMED ABOVE

©1993 NATIONAL NOTARY ASSOCIATION • 8236 Remmet Ave., P.O. Box 7184 • Canoga Park, CA 91309-7184

95016143

On this the __ day of October, 1994, before me, _____, the undersigned Notary Public, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged that he executed it.

WITNESS my hand and official seal.

_____

Notary's Signature

EXHIBIT A

95016143

ORDER NO. 101577

(90070780)

The land referred to in this report is situated in the state of California, County of ALAMEDA, and is described as follows:

CITY OF BERKELEY AND CITY OF EMERYVILLE

PARCEL 1:

COMMENCING AT A POINT ON THE WESTERN LINE OF BAY STREET, AS SAID STREET IS SHOWN ON THE MAP OF MAXWELL TRACT, FILED SEPTEMBER 19, 1872, MAP BOOK 5, PAGE 21, ALAMEDA COUNTY RECORDS, AT THE NORTHERN EXTREMITY OF THAT CERTAIN CURVE HAVING A RADIUS OF 32.00 FEET, WHICH CONNECTS THE SAID LINE OF BAY STREET WITH THE NORTHERN LINE OF 65TH STREET, AS SET FORTH IN THE DEED TO STATE OF CALIFORNIA, RECORDED DECEMBER 11, 1953, SERIES NO. AH/10838, BOOK 7203 OFFICIAL RECORDS, PAGE 513, CONTAINING 4.589 ACRES; THENCE ALONG THE SAID LINE OF BAY STREET NORTH 10° 40' 15" WEST 395.18 FEET TO THE SOUTHERN EXTREMITY OF THAT CERTAIN COURSE DESIGNATED AS "SOUTH 10° 40' 15" EAST 297.16 FEET" IN SAID DEED TO THE STATE OF CALIFORNIA; THENCE ALONG THE EXTERIOR BOUNDARY LINE OF THE SAID 4.589 ACRE PARCEL OF LAND NORTHERLY ALONG THE ARC OF A CURVE TO THE LEFT, WITH A RADIUS OF 4970.00 FEET, FROM A TANGENT WHICH BEARS NORTH 10° 40' 15" WEST A DISTANCE OF 137.99 FEET TO A POINT ON A LINE DRAWN PARALLEL WITH THE NORTHERN BOUNDARY LINE OF THAT CERTAIN PARCEL OF LAND DESIGNATED AS PARCEL 1 IN DEED OF TRUST MADE BY HENRY SHAPIRO, ET AL., TO ALAMEDA COUNTY-EAST BAY TITLE INSURANCE COMPANY, A CORPORATION, TRUSTEE, RECORDED OCTOBER 26, 1956, SERIES NO. AL/112672, BOOK 8188 OFFICIAL RECORDS, PAGE 307, DISTANT 170.00 FEET NORTHERLY THEREFROM, MEASURED AT RIGHT ANGLES THERETO, SAID LAST MENTIONED POINT BEING THE ACTUAL POINT OF BEGINNING; THENCE ALONG THE EXTERIOR BOUNDARY LINE OF THE SAID 4.589 ACRE PARCEL OF LAND THE FIVE FOLLOWING COURSES AND DISTANCES: NORTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, WITH A RADIUS OF 4970.00 FEET, A DISTANCE OF 43.44 FEET, THENCE NORTH 13° 12' 53" WEST 184.31 FEET, THENCE NORTHERLY, NORTHWESTERLY AND WESTERLY ALONG THE ARC OF A CURVE TO THE LEFT, WITH A RADIUS OF 45.00 FEET, TANGENT TO THE SAID LAST MENTIONED COURSE, A DISTANCE OF 77.84 FEET, THENCE SOUTH 67° 40' 58" WEST 232.70 FEET, AND THENCE SOUTHWESTERLY ALONG THE ARC OF A CURVE TO THE LEFT, WITH A RADIUS OF 640.00 FEET, FROM A TANGENT WHICH BEARS SOUTH 54° 30' 18" WEST, A DISTANCE OF 267.23 FEET, TO A POINT ON SAID PARALLEL LINE SO DRAWN; THENCE ALONG THE SAID PARALLEL LINE SO DRAWN NORTH 88° 51' 33" EAST 516.63 FEET TO THE ACTUAL POINT OF BEGINNING.

PARCEL 2:

A NON-EXCLUSIVE, PERPETUAL EASEMENT, APPURTENANT TO AND FOR THE USE OF THE OWNER OR OWNERS OF PARCEL 1 HEREIN DESCRIBED, AND ANY SUBSEQUENT SUBDIVISION OR SUBDIVISIONS THEREOF, WITH THE RIGHT AND PRIVILEGE TO CONSTRUCT, REPAIR, REPLACE, MAINTAIN AND USE A SEWER

95016143

EXHIBIT A

ORDER NO. 101577

(90070780)

"CONTINUED"

OVER, ACROSS AND UNDER A STRIP OF LAND 5.00 FEET WIDE, TOGETHER WITH THE RIGHT OF INGRESS THERETO AND EGRESS THEREFROM, FOLLOWING DESCRIBED PARCEL OF LAND:

A PORTION OF THAT CERTAIN PARCEL OF LAND DESIGNATED AS PARCEL 1 IN DEED TO SARONI PROPERTIES, INC., A CORPORATION, RECORDED DECEMBER 4, 1958, SERIES NO. AP/127666, BOOK 8865 OFFICIAL RECORDS, PAGE 301, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWESTERN CORNER OF SAID PARCEL 1; THENCE ALONG THE NORTHWESTERN BOUNDARY LINE THEREOF THE TWO FOLLOWING COURSES AND DISTANCES: SOUTHWESTERLY ALONG THE ARC OF A CURVE TO THE LEFT WITH A RADIUS OF 640.00 FEET, FROM A TANGENT WHICH BEARS SOUTH 30° 34' 38" WEST, A DISTANCE OF 2.75 FEET, AND THENCE SOUTH 30° 20' WEST TANGENT TO THE SAID LAST MENTIONED ARC, 191.98 FEET TO A POINT ON THE SOUTHERN BOUNDARY LINE THEREOF; THENCE ALONG THE SAID LAST MENTIONED LINE SOUTH 88° 51' 33" EAST 5.72 FEET TO A POINT ON A LINE DRAWN PARALLEL WITH THE SAID NORTHWESTERN BOUNDARY LINE AND DISTANT 5.00 FEET SOUTHEASTERLY THEREFROM, MEASURED AT RIGHT ANGLES THERETO; THENCE ALONG THE SAID PARALLEL LINE SO DRAWN THE TWO FOLLOWING COURSES AND DISTANCES: NORTH 30° 20' EAST 189.19 FEET, AND THENCE NORTHEASTERLY ALONG THE ARC OF A CURVE TO THE RIGHT WITH RADIUS OF 635.00 FEET, TANGENT TO THE SAID LAST MENTIONED COURSE 5.04 FEET, MORE OR LESS, TO A POINT ON THE NORTHERN BOUNDARY LINE OF SAID PARCEL 1; THENCE ALONG THE SAID LAST MENTIONED LINE NORTH 88° 51' 33" WEST 5.72 FEET, MORE OR LESS, TO THE POINT OF BEGINNING.

ASSESSOR'S PARCEL NO. 049-1490-002

Appendix D.3

Conditional Case Closure Letter

Nady's Systems, Inc. (Former MRCP) – 6707 Bay Street, Emeryville, California
Prepared by ACHCS
Dated December 16, 1996

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

December 16, 1996
SLIC # 414

Mr. James J. McClay
MRCP Realty
6262 Hollis Street
Emeryville, California 94608

Mr. Charles Tsou
Nady Systems, Inc.
6701 Bay Street
Emeryville, California 94608

RE: Nady's Systems, Inc. (Former MRCP) - 6707 Bay Street, Emeryville, CA 94608

Dear Messrs. Mclay and Tsou:

This office is currently preparing a case closure summary for the above referenced site. The closure document will be submitted to the Regional Water Quality Control Board (RWQCB) for concurrence that further remediation and /or monitoring related to the former underground storage tanks removed from the site is not required. However, the recorded deed notice must be modified to include the following risk management measures:

1) **The shallow groundwater beneath the site shall not be used.** This statement should replace condition # 2 as recorded in the previous deed notice.

2) **Appropriate Health and Safety plans shall be prepared prior to and followed during any activities involving exposure to pollution in soil or groundwater.** This statement should replace condition #4.

3) **A health risk assessment shall be required if a change in land use, structural configuration or site activities are proposed such that more conservative scenarios should be evaluated.** This statement should replace condition # 5.

4) **Potential vertical conduits between the shallow and deeper aquifers shall not be created.** This statement should be added as condition # 6.

A copy of the recorded deed notice with the risk management measures listed above must be submitted to this office and the City of Emeryville Planning / Building Dept.

I will be submitting the case closure summary to RWQCB concurrently while modification to the deed notice is in progress. The closure letter will be issued by this office after receiving the case closure summary signed by the RWQCB and a copy of the recorded deed notice.

Please call me at (510) 567-6780 regarding any questions you may have concerning this letter or the subject site.

Sincerely,

Susan L. Hugo

Susan L. Hugo
Senior Hazardous Materials Specialist

c: Mee Ling Tung, Director, Environmental Health
Gordon Coleman, Acting Chief, Environmental Protection Division
Sum Arigala, San Francisco Bay RWQCB
William Rudolph, SCI, 3736 Mt. Diablo Blvd., Suite 200, Lafayette, CA 94549
Maureen Bennett, Graham & James, One Maritime Plaza, Suite 300
San Francisco, CA 94111
SH / files

Appendix D.4

Historical Environmental Sampling Data

Table D4-1 - Historical Total Petroleum Hydrocarbons (TPH) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	TPH (mg/kg)		
				Oil & Grease	TEPH	Total VOCs
IS-1	4/26/1989	Drum Area	3.5	**1,915**	**46**	ND<10
			7	**3,390**	**200**	ND<10
			10	**36,535**	ND<10	ND<10
IS-2	4/26/1989	Drum Area	3	**1,305**	**50**	ND<10
			8.5	**2,185**	ND<10	**300**
B-1/MW-1	7/5/1989	West of Tanks	5.5	**845**	**12**	ND<10
			10.5	ND<50	ND<10	ND<10
			16	**1,600**	**63**	ND<10
			20.5	**80**	ND<10	ND<10
			25.5	**95**	ND<10	ND<10
			30.5	ND<50	ND<10	ND<10
B-2	7/5/1989	West of office	0.5	ND<50	ND<10	ND<10
			6	**1,160**	**19**	ND<10
			10	**14,900**	**172**	**20**
			16	ND<50	ND<10	ND<10
B-3/MW-3	8/28/1989	SE of Tanks	5	**1,845**	**30**	ND<10
			12	**95**	**20**	ND<10
			15	**625**	**260**	**120**
			20	ND<20	ND<10	ND<10
			25	**20**	ND<10	ND<10
B-4	8/28/1989	Location unknown	4.5	**6,685**	ND<10	ND<10
			10	**25,470**	**170**	ND<10
			14.5	ND<20	ND<10	ND<10
B-5/MW-5	8/31/1989	At trench and drum area	6	**330**	ND<10	ND<10
			11	**3,580**	**15**	**25**
			15.5	**1,200**	**15**	**20**
			22.5	**110**	**20**	ND<10
			25.5	**115**	ND<10	ND<10
B-6/MW-6	8/31/1989	NW site boundary	20.5	**100**	ND<10	ND<10
			25.5	**190**	ND<10	ND<10
SS-1-E	10/5/1989	UST Confirmation	2' Beneath UST	--	**12**	**12**
SS-2-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**11**	ND<10
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	--	ND<10	ND<10
SS-4-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**60**	**240**
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	--	**35**	**115**
SS-6-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**700**	**460**
B-7/MW-7	1/3/1990	Drum Area	4	**9,000**	ND<10	ND<10
			9	**8,800**	**788**	ND<10
B-8/MW-8	1/3/1990	Downgradient of USTs	4	**2,000**	ND<10	ND<10
			9	**20,000**	ND<10	ND<10
B-9	1/4/1990	At sump	4	**23,000**	ND<10	ND<10
			9	**15,000**	**5,050**	ND<10
B-10	1/4/1990	NW part of site	4	**9,500**	**380**	ND<10
			9	**6,300**	ND<10	ND<10
B-11	1/4/1990	Between office and warehouse	4	**45,000**	ND<10	ND<10
			9	**30,400**	ND<10	ND<10
B-12	1/4/1990	N of office	4	**12,000**	ND<10	ND<10
			9	**38,800**	ND<10	ND<10
B-13	1/4/1990	N part of site	4	**9,400**	ND<10	ND<10
			9	**3,000**	ND<10	ND<10
Sump	1/5/1990	Sump Excavation	Confirmation	**10,500**	ND<10	ND<10
MW-9	4/13/1994	W of Tank Excavation	8.5	--	ND<1	--
			15.5	**470**	--	--
MW-10	4/14/1994	N of Tank Excavation	9.5	--		
			15.5	**9,400**	**7,300**	**2**
T-1	4/13/1994	S of tank excavation	8	--	--	--
			14	--	**96**	ND<1
T-2	4/13/1994	SE tank excavation	6	**160**	**40**	--
			8.5	--	--	ND<1
T-3	4/13/1994	Bottom tank excavation	8	--	--	ND<1
			14.5	--	--	--
T-4	4/14/1994	SW tank excavation	9	--	--	ND<1
			14.5	--	--	--
T-5	4/14/1994	W of tank excavation	5	**710**	ND<10	ND<1
			9	ND<50	ND<1	ND<1
			14.5	--	--	--
T-7	4/14/1994	NW tank excavation	7.5	**68**	ND<10	ND<1
			14	--	ND<20	160
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [1]				*500*	*100*	*na*

Notes:
exceeds regulatory criteria
Only locations with detected TPH and/or Total VOC data are shown.
mg/kg: milligrams per kilogram
na: not available
ND<##: Not detected at or above laboratory reporting limit shown.
TEPH: Total Extractable Petroleum Hydrocarbons
TPH: Total Petroleum Hydrocarbons
VOCs: Volatile Organic Compounds
UST: Underground storage tank
1. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table D4-2 - Historical Volatile OrganicCompound (VOC) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths (ft bgs)	VOCs (ug/kg)											
				Acetone	Benzene	Ethylbenzene	Toluene	Total Xylenes	MIBK	1,2-DCB	1,3-DCB	1,4-DCB	MEK	Carbon Disulfide	Methylene Chloride
SS-1-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<200,000	**1,300**	**40**	NR	**300**	**600,000**	ND<30	**120**	**260**	ND<200,000	ND<80,000	ND<30
SS-2-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<20	**230**	**30**	**60**	**50**	**20**	ND<30	ND<30	ND<30	ND<20	ND<3	ND<30
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	**40**	ND<30	ND<30	**50**	**35**	ND<20	ND<30	ND<30	ND<30	ND<20	ND<3	ND<30
SS-4-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<2,000,000	**1,400**	110	NR	**1,100**	**3,300,000**	**70**	**2,000**	**2,400**	ND<2,000,000	ND<800,000	ND<30
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<400,000	ND<300	ND<300	NR	**1,000**	**180,000**	ND<30	ND<30	ND<30	ND<40,000	ND<20,000	ND<30
SS-6-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<2,000,000	**4,600**	ND<1,500	NR	**7,500**	**5,000,000**	ND<30	ND<30	ND<30	ND<2,000,000	ND<800,000	ND<30
B-7/MW-7	1/3/1990	Drum Area	4	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<10	**250**	**61**	**1,020**	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<100	ND<100	ND<100	ND<100	**8,300**	ND<100	ND<100	ND<100	ND<500	ND<100	ND<50
B-9	1/4/1990	At sump	4	ND<50	ND<10	ND<10	**12**	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	**54**	**140**	**26**	**380**	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
B-11	1/4/1990	Between office and warehouse	4	ND<50	ND<10	ND<10	**15**	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
PB-1	9/5/1991	Soil Boring in tank area	6	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	**2**	ND<5	ND<20	ND<5	ND<5
			8.5	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	**3**	**4**	ND<5	ND<20	ND<5	ND<5
PB-2	9/5/1991	Soil Boring in tank area	5.5	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	ND<5	ND<5	ND<20	ND<5	ND<5
			8	ND<20	**5**	ND<5	ND<5	ND<5	ND<10	**4**	**4**	ND<5	ND<20	ND<5	ND<5
MW-9	4/13/1994	W of Tank Excavation	8.5	**70**	ND<5	ND<5	ND<5	ND<5	**6**	NR	NR	NR	**10**	ND<5	ND<10
			15.5	**140**	**4**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
MW-10	4/14/1994	N of Tank Excavation	9.5	**30**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	ND<10	ND<5	ND<10
			15.5	**320**	ND<10	ND<10	ND<10	ND<10	**11**	NR	NR	NR	**120**	**20**	**40**
T-2	4/13/1994	SE tank excavation	6	--	--	--	--	--	--	--	--	--	--	--	--
			8.5	**110**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
T-3	4/13/1994	Bottom tank excavation	8	**70**	**4**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**10**	ND<5	ND<10
			14.5	**100**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
T-4	4/14/1994	SW tank excavation	9	**50**	ND<5	ND<5	ND<5	ND<5	**10**	NR	NR	NR	**8**	**4**	ND<10
			14.5	**160**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**40**	ND<5	ND<10
T-5	4/14/1994	W of tank excavation	5	--	--	--	--	--	--	--	--	--	--	--	--
			9	**20**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	ND<10	ND<5	ND<10
			14.5	ND<20	**12**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**10**	ND<5	ND<10
T-6	4/14/1994	NE tank excavation	7.5	**100**	ND<5	ND<5	ND<5	ND<5	**6**	NR	NR	NR	**10**	ND<5	ND<10
			14	ND<100	ND<30	ND<30	ND<30	ND<30	ND<50	NR	NR	NR	ND<50	ND<30	ND<50
T-7	4/14/1994	NW tank excavation	7.5	**30**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**9**	ND<5	ND<10
			14	ND<1,000	ND<1,000	**600**	ND<300	ND<300	**500**	NR	NR	NR	ND<500	ND<300	ND<500
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [1]				*500*	*44*	*2,900*	*2,900*	*2,300*	*2,800*	*1,100*	*7,400*	*590*	*6,500*	*na*	*77*

Notes:
exceeds regulatory criteria
Only locations with detected VOCs are shown.
Only detected compounds are shown.
ug/kg: micrograms per kilogram
bgs: below ground surface
DCB: dichlorobenzene
MEK: Methyl ethyl ketone
MIBK: Methyl isobutyl ketone
na: not available
ND<##: Not detected at or above laboratory reporting limit shown
TCA: trichloroethane
TCE: trichloroethene
UST: Underground storage tank
1. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table D4-3 - Historical Semi-Volatile Organic Compound (SVOC) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	SVOCs (ug/kg)														
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(k) fluoranthene	Chrysene	Fluor-anthene	Isophor-one	2-Methyl naphthal-ene	Naphthal-ene	Nitro-benzene	Phen-anthrene	Pyrene	Bis (2-ethylhexyl) phthalate	4-Methyl phenol	1,2,4-TCB
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<30	ND<30	ND<30	ND<70	ND<30	ND<30	ND<30	ND<30	ND<30	ND<30	ND<30	ND<300	**200**	**200**
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<200	ND<200	ND<200	ND<400	ND<200	ND<200	**1,000**	**300**	ND<200	ND<200	ND<200	ND<2,000	ND<200	ND<200
B-7/MW-7	1/3/1990	Drum Area	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	**390**	**320**	ND<300	**1,500**	**750**	ND<300	**530**	**380**	ND<2,000	ND<300	ND<300
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**410**	ND<2,000	ND<300	ND<300
B-9	1/4/1990	At sump	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	**690**	**340**	ND<300	**1,100**	**8,900**	ND<300	**590**	**550**	ND<2,000	ND<300	ND<300
B-11	1/4/1990	Between office and warehouse	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**320**	ND<2,000	ND<300	ND<300
			9	**580**	ND<300	ND<300	**820**	**1,100**	ND<300	ND<300	ND<300	ND<300	**560**	**1,800**	ND<2,000	ND<300	ND<300
B-12	1/4/1990	N of office	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**370**	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
B-13	1/4/1990	N part of site	4	ND<300	**470**	ND<300	**390**	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**920**	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
MW-9	4/13/1994	W of Tank Excavation	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**400**	ND<300	ND<300
T-2	4/13/1994	SE tank excavation	6	ND<300	ND<300	**200**	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300
			8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-5	4/14/1994	W of tank excavation	5	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**400**	ND<300	ND<300
			14.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHHSL - Residential [1]				*na*	*38*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [2]				*380*	*38*	*380*	*3,800*	*40,000*	*na*	*250*	*1,700*	*na*	*11,000*	*85,000*	*160,000*	*na*	*7,600*

Notes:
exceeds regulatory criteria
Only locations with detected SVOCs are shown.
Only detected compounds are shown.
na: not available
ND<##: Not detected at or above laboratory reporting limit shown
SVOCs: Semivolatile Organic Compounds
TCB: trichlorobenzene
ug/kg: micrograms per kilogram
UST: Underground storage tank

1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties (Revised 2009)* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table D4-4 - Historical Metals Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths (ft bgs)	Metals (mg/kg)														
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
IS-1	4/26/1989	Drum Area	3.5	6.5	ND<2.2	110	0.05	4.1	20.1	5.6	70	100	ND<5	1.2	32.1	15.2	15.4	200
			7	1.4	ND<2.2	130	ND<0.025	4.2	21.5	6.4	104	130	ND<5	ND<1	31.5	ND<0.1	17.3	48.9
			10	1.6	ND<2.2	255	ND<0.025	10.2	63.5	11.4	1,042	4,300	ND<5	3.7	42.6	ND<0.1	17.3	5,400
IS-2	4/26/1989	Drum Area	3	ND<1	ND<2.2	90	ND<0.025	3.2	18.5	6	56.7	90	ND<5	1.2	30.9	ND<0.1	15.6	270
			8.5	ND<1	ND<2.2	35.7	ND<0.025	1.5	6.6	2.8	13.8	5.3	ND<5	ND<1	15.5	ND<0.1	6.7	22.9
B-1/MW-1	7/5/1989	West of Tanks	5.5	ND<1	ND<2.2	92	ND<0.025	1.4	13	5.7	28	61	ND<5	ND<1	14	ND<0.1	15	94
			10.5	ND<1	ND<2.2	21	ND<0.025	0.6	12.5	2.6	4	3	ND<5	ND<1	12.7	ND<0.1	7	5.4
			16	4	ND<2.2	78	ND<0.025	12	42	12.4	15.3	160	ND<5	2.4	30	ND<0.1	32	6,040
			20.5	ND<1	ND<2.2	61	ND<0.025	2.4	15	4.5	23	77	ND<5	ND<1	19	ND<0.1	12	106
			25.5	ND<1	ND<2.2	67	ND<0.025	2	10	8	13	8	ND<5	ND<1	24	ND<0.1	12	27
			30.5	ND<1	ND<2.2	23	ND<0.025	1.2	9.9	3.6	7.4	4.5	ND<5	ND<1	22	ND<0.1	6.7	15
B-2	7/5/1989	West of office	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			6	1.2	ND<2.2	109	ND<0.025	1.6	11.8	5	92	167	ND<5	ND<1	18.5	ND<0.1	9.7	67
			10	ND<1	ND<2.2	41	ND<0.025	ND<0.3	12.7	2.7	22.5	1,360	ND<5	ND<1	12.5	ND<0.1	13	532
			16	1.2	ND<2.2	95	ND<0.025	2.4	43	12	10	11	ND<5	ND<1	79	ND<0.1	10	23
			20.5	ND<1	ND<2.2	35	ND<0.025	1.4	7.8	1.9	9	8.7	ND<5	ND<1	16.6	ND<0.1	17	11
B-5/MW-5	8/31/1989	At trench and drum area	6	ND<1	ND<2.2	29.2	ND<0.025	0.5	13.5	3.4	13.3	9.7	ND<5	ND<1	18	ND<0.1	12	52
			11	1.05	ND<2.2	167.1	ND<0.025	2.15	15.2	8.7	64	164	ND<5	ND<1	22	ND<0.1	23.4	200
			15.5	3.85	ND<2.2	661	ND<0.025	4.5	22.4	8.2	200	1,270	ND<5	ND<1	26.8	ND<0.1	20	1420
			22.5	ND<1	ND<2.2	1,150	ND<0.025	3.8	19	40	44.2	24	ND<5	ND<1	151	ND<0.1	58.3	58.6
			25.5	ND<1	ND<2.2	158	ND<0.025	3.1	21	12.3	22.6	12	ND<5	ND<1	54	ND<0.1	31	42
B-6/MW-6	8/31/1989	NW site boundary	20.5	ND<1	ND<2.2	250	ND<0.025	3.5	23	19	22.5	15.3	ND<5	ND<1	48	ND<0.1	53	47
			25.5	ND<1	ND<2.2	56.5	ND<0.025	3.3	25	11	22	15	ND<5	ND<1	54	ND<0.1	25	42.6
B-7/MW-7	1/3/1990	Drum Area	4	ND<10	ND<16	140	0.48	ND<0.7	32	8.6	27	ND<12	ND<0.09	ND<1	28	ND<0.4	36	79
			9	ND<10	ND<16	24	0.13	ND<0.7	21	ND<2	3.6	ND<12	0.088	ND<1	16	ND<0.4	12	310
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<10	ND<16	42	0.16	ND<0.7	27	2.8	18	ND<12	ND<0.009	ND<1	18	ND<0.4	15	75
			9	ND<10	ND<16	85	0.15	ND<0.7	9.6	ND<2	41	24	0.36	ND<1	6.8	ND<0.4	8.5	120
B-9	1/4/1990	At sump	4	ND<10	ND<16	140	0.41	ND<0.7	33	7.4	55	41	0.45	ND<1	32	ND<0.4	31	120
			9	ND<16	ND<16	610	0.31	44	180	15	2,300	980	0.66	27	350	ND<0.4	26	6,200
B-10	1/4/1990	NW part of site	4	ND<10	ND<16	33	0.05	ND<0.7	23	ND<2	39	42	0.1	ND<1	10	ND<0.4	5	95
			9	ND<16	21	590	0.33	1.3	34	6.9	140	1,500	0.62	ND<1	24	ND<0.4	28	410
B-11	1/4/1990	tween office and wareho	4	ND<10	ND<16	240	0.36	1	22	5.4	44	72	0.092	ND<1	25	ND<0.4	21	940
			9	ND<10	ND<16	160	0.31	0.7	21	3.6	ND<4,500	55	0.012	ND<1	24	ND<0.4	17	160
B-12	1/4/1990	N of office	4	ND<10	ND<16	89	0.23	ND<0.7	36	3.4	170	120	ND<0.009	ND<1	29	ND<0.4	21	150
			9	ND<28	38	540	0.26	7.7	190	28	2,200	3,000	ND<0.009	20	110	ND<0.4	23	3,600
B-13	1/4/1990	N part of site	4	ND<10	ND<16	160	0.36	ND<0.7	62	6.5	120	520	ND<0.009	ND<1	42	ND<0.4	27	300
			9	ND<10	ND<16	37	0.15	ND<0.7	29	2.9	4.9	12	ND<0.009	ND<1	18	ND<0.4	15	210
Sump	1/5/1990	Sump Excavation	Confirmation	ND<10	ND<16	180	0.48	ND<0.7	95	10	49	62	0.022	ND<1	135	ND<0.4	39	150
MW-9	4/13/1994	W of Tank Excavation	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	ND<3	4.2	190	0.43	ND<0.25	26	12	30	19	ND<0.083	ND<1	36	ND<0.5	27	61
MW-10	4/14/1994	N of Tank Excavation	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	4.4	19	140	0.21	3.3	59	10	330	250	0.77	3.1	37	1.1	24	530
T-2	4/13/1994	SE tank excavation	6	5.1	9.3	170	0.23	1	25	8.7	2,100	330	ND<0.087	1.5	55	0.5	26	580
			8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-5	4/14/1994	W of tank excavation	5	ND<2.9	6	130	0.31	0.27	25	9.2	60	61	0.21	ND<0.98	28	ND<0.49	26	88
			9	ND<3	ND<2.5	41	ND<0.10	ND<0.25	23	4.2	14	1.5	ND<0.087	ND<1	19	ND<0.5	15	18
			14.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-7	4/14/1994	NW tank excavation	7.5	ND<3	4.2	150	0.45	0.28	27	10	40	6.1	ND<0.087	ND<0.99	37	ND<0.5	27	62
			14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHHSL - Residential[1]				*30*	*0.07*	*5,200*	*16*	*1.7*	*100,000*	*660*	*3,000*	*80*	*18*	*380*	*1,600*	*380*	*530*	*23,000*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area[2]				*20*	*0.39*	*750*	*4*	*12*	*750*	*0.33*	*230*	*80*	*6.7*	*40*	*150*	*20*	*200*	*600*

Notes:
exceeds regulatory and California hazardous waste criteria
exceeds regulatory criteria
Only detected compounds are shown.
bgs: below ground surface
mg/kg: milligrams per kilogram
ND<##: Not detected at or above laboratory reporting limit shown

1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties (Revised 2009)*. January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)*. February.

Table D4-5- Historical PCBs Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	PCBs (mg/kg)	
				Arochlor 1260	Other PCBs
B-7/MW-7	1/3/1990	Drum Area	4	ND<1	ND
			9	ND<1	ND
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<1	ND
			9	**2.3**	ND
B-9	1/4/1990	At sump	4	ND<1	ND
			9	ND<1	ND
B-10	1/4/1990	NW part of site	4	ND<1	ND
			9	ND<1	ND
B-11	1/4/1990	Between office and warehouse	4	**2.2**	ND
			9	ND<1	ND
B-12	1/4/1990	N of office	4	ND<1	ND
			9	ND<1	ND
B-13	1/4/1990	N part of site	4	**3.1**	ND
			9	ND<1	ND
Sump	1/5/1990	Sump Excavation	Confirmation	**4.2**	ND
CHHSL - Residential [1]				*0.089*	*0.089*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [2]				*0.22*	*0.22*

Notes:
exceeds regulatory criteria
Only locations with detections are shown.
Only detected compounds are shown.
mg/kg: milligrams per kilogram
ND<##: Not detected at or above laboratory reporting limit shown
PCBs: Polychlorinated biphenyls
UST: Underground storage tank

Appendix E

Laboratory Analytical Reports

Appendix F

Qualifications of Environmental Professionals

Anne Wooster Gates, PE | Senior Manager

Emeryville, California
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Anne Gates has been a licensed professional engineer in California since 1987, with over 25 years of experience in consulting engineering related to environmental investigations, feasibility study analyses, civil/environmental design and remediation construction. For both private- and public-sector clients, she provides overall technical management related to investigation and remediation of contaminated property. She has prepared feasibility studies, engineering evaluations/cost analysis (EE/CA) reports and remedial action plans (RAPs) to analyze and select alternatives for site remediation. The alternatives evaluated in these reports have included innovative technologies, risk management strategies and traditional remedies. For the past 10 years, Anne's environmental engineering work has focused on remediation of sites for the purposes of redevelopment. These projects have included preparation of detailed cost estimates for the design, construction and monitoring of environmental remediation alternatives. She has also provided expert testimony on projects involving environmental investigation and remediation.

EDUCATION

1988 MS, Civil Engineering (Oceans and Hydraulics), University of California, Berkeley

1984 BS, Civil Engineering, Stanford University

EXPERIENCE

Bay Street, Emeryville

- Worked closely with a private developer, the City of Emeryville Redevelopment Agency and the California DTSC to negotiate closure and redevelopment of a 20-acre former industrial site contaminated with heavy metals, benzene and pesticides /PCBs.
- Closure of the site was contingent upon implementation of deed restrictions and a risk management plan and Anne worked closely with the relevant agencies and the private developer to finalize the risk management plan and obtain site closure.
- Implemented the risk management plan during site construction and development activities. Additional contamination was found during development and Anne worked closely with the developer and DTSC to ensure the additional contamination was remediated. She is currently working with the developer on several cost recovery actions with respect to the additional contamination that was identified during development.

Bay Area Research and Extension Center (BAREC) in Santa Clara

- Assisting the State of California in investigating and remediating a former pesticide research and testing facility in Santa Clara, California. The 17-acre parcel is slated for redevelopment into single- and multi- family homes and a small park. Responsibilities include preparation of a Site Characterization Report and Remedial Action Workplan to obtain site closure from DTSC.

Mission Bay in San Francisco

- Assisted with Catellus's redevelopment of the one of the largest "Brownfields" developments in Northern California.
- Analyzed different remediation scenarios for petroleum hydrocarbons in soil and ground water and the potential impact of these remedies on future development activities.

- In addition, provided technical assistance with respect to risk communication and environmental risk management procedures to be performed during site redevelopment and construction.

San Quentin Prison

- Assisted the State of California in preparation of a study of alternatives for redevelopment of the roughly 200-acre San Quentin Prison. Responsible for identifying the redevelopment issues and costs related to potential releases of chemicals from current/former prison industries, the gas chamber and former waste disposal areas, assuming different land use scenarios.

City of Emeryville, Emeryvillage Project

- Successfully negotiated site closure with the California RWQCB for a former industrial site that was contaminated with petroleum hydrocarbons and VOCs in soil and ground water.
- Integral to negotiating this site closure was communication of potential environmental risks and risk management procedures to be followed during construction and redevelopment.

Comprehensive Engineering Design Packages

- Prepared comprehensive engineering design packages for implementation of selected remediation alternatives. The design packages typically include detailed plans and specifications; a cost estimate and schedule; a Basis of Design Report; Operation and Maintenance Plan; Waste Management Plan; System Monitoring and Sampling Plan; and Health and Safety Plan. She has prepared design packages which have involved the following:
  - Excavation and treatment of contaminated soil (hydrocarbons, PCBs, metals);
  - Ground-water pump and treat systems;
  - Dual phase extraction of ground-water and free-phase fuel hydrocarbons;
  - Vapor extraction for chlorinated VOCs and hydrocarbons; and
  - Landfill capping and containment systems.
- Examples of this experience include her work as project manager for closure of two solid waste landfills. Both projects involved preparation of an EE/CA to evaluate different closure alternatives, preparation of plans and specifications, and preparation of construction and environmental monitoring plans. Anne was instrumental in negotiating with EPA Region IX to accept closure of one of the landfills, which was located in a remote area using locally available materials. Although these materials did not directly meet the requirements of RCRA Subtitle D, Anne was able to demonstrate that they were adequate for protection of potentially-exposed populations and environmental receptors.

Additional Representative Project Examples

- Managed preparation of design plans and specifications for a vapor extraction system to remediate explosive levels of gasoline vapors and methane gas.
- Managed a remediation project for an active gas station and fuel oil recovery facility. Project involved implementation of a pilot-scale ground-water remediation system, site characterization sampling, collection of tidal monitoring data, aquifer-testing and use of ground-watering flow model to determine location and spacing of ground-water extraction wells and trenches to collect and extract floating hydrocarbons. Also evaluated different free phase hydrocarbon recovery system alternatives, developed plans and specifications for implementation of the selected remedial alternative, provided construction oversight during implementation, and provided operation, maintenance and performance monitoring of the final remedial alternative.

- Managed a remediation project for cleanup of diesel and fuel oil from a former power plant. Project involved site characterization sampling, collection of tidal monitoring data, aquifer-testing and use of a ground-watering flow model to determine location and spacing of ground-water extraction wells and trenches to collect and extract floating hydrocarbons. Also evaluated different free phase hydrocarbon recovery system alternatives, developed plans and specifications for implementation of the selected remedial alternative, provided construction oversight during implementation, and provided operation, maintenance and performance monitoring of the final remedial alternative.
- Managed an investigation and remediation of PCE-, TCE- and vinyl chloride-containing vapors at a laundry facility and adjacent elementary school. Project involved: investigating the extent of the vapor plume in soil gas and ambient air; performing a risk assessment and fate and transport modeling to determine whether adjacent school children were at risk; performing fate and transport modeling to determine whether potential marine ecological receptors were potentially impacted; performing a vapor extraction pilot-test to analyze remedial alternatives; evaluating removal action alternatives for cost, effectiveness and implementability; preparing plans and specifications for design of a horizontal and vertical vapor extraction system with a catalytic oxidation treatment system; and construction, operation and maintenance of the selected removal action alternative.
- Assisted with design, implementation and construction oversight of a remediation system for hydrocarbon contaminated soil at a former military base in Alaska. Project involved installation and operation of a soil vapor extraction system.
- Managed the design/analysis of an electrokinetic remediation system for cleanup of a former battery acid pit contaminated with lead. Project involved analysis of site-specific data to determine the applicability of the technology for the site and detailed comparisons of other technologies in terms of cost, effectiveness and implementability.
- Managed the preparation of a Removal Action Site Evaluation Report, Engineering Evaluation/Cost Analysis and engineering design package for closure of a landfill. Project involved collection/analysis of additional site data, evaluation of different landfill capping alternatives performance of a streamlined risk assessment and development of a ground-water monitoring plan. Project also involved assessing engineering risks with future development of the closed landfill. Successfully negotiated with USEPA to obtain an exemption from RCRA Subtitle D landfill closure requirements because it was demonstrated that the selected alternative was effective in minimizing risks associated with the former landfill.
- Managed preparation of an Engineering Evaluation/Cost Analysis and plans and specifications for closure of an oily waste pit. Project included analysis and design of alternatives for remediating oily contaminated soil and design of a protective cap to prevent the migration of gases to the ground surface.
- Provided litigation support in cases involving the responsibility, extent and remediation costs of soil and ground water contamination, consistency of remedial investigations and remedial/removal actions with the NCP, and Superfund cost allocation.
  - Provided litigation support regarding the extent and source of petroleum releases at a site adjacent to San Diego Bay.
  - Provided litigation support regarding the extent and source of contamination and the allocation of remedial costs among various PRPs at a former foundry and wood-stove manufacturing site in Alameda County, California
  - Prepared a cost allocation analysis for litigation involving remediation of hydrocarbons at the San Francisco airport.

- Prepared a cost analysis of various cleanup alternatives for cadmium contaminated ground water at a State NPL site in South Carolina.

Other Environmental Projects

- Assisted with preparation and development of a ground-water monitoring plan for a hazardous waste landfill. Assisted with vadose zone and ground-water modeling to simulate leaks from waste management units (WMUs) and for determination of the location and spacing of ground-water monitoring wells. Designed a vadose zone monitoring system using an additional model to simulate releases of moisture from a newly constructed WMU due to consolidation of the WMUs clay liner. The project also included design and installation of the vadose zone and ground-water monitoring system and additional ground-water modeling studies to determine if a deep (>800 feet) water supply well had a hydraulic effect on the shallow ground-water monitoring well system.
- Assisted in investigation and characterization of solid waste management units and report preparation as part of a RCRA Facility Investigation.
- Prepared a solid waste management permit application for nonhazardous waste disposal units at a waste disposal facility.
- Assisted in chemical characterization of waste disposed in landfill for modeling air emission rates from active hazardous waste landfill. Results of model were basis for air permit application for hazardous waste landfill.
- Performed environmental assessments of several solid waste/sanitary landfills in Michigan, Indiana, Oklahoma for possible conversion to hazardous waste facilities. Project involved assessing engineering feasibility for landfill unit conversion and expansion, review of historical regulatory compliance, and potential for release of contaminants from landfill wastes.
- Performed environmental compliance audits, due diligence reviews and site assessments of more than 50 facilities to identify environmental liabilities associated with federal, state and local regulations (e.g., CERCLA, RCRA, wastewater, Federal Safe Drinking Water Act, air emissions, underground storage tanks, California's Proposition 65, and other hazardous waste regulations, asbestos). The types of facilities included motor and pump repair facilities in Ohio, West Virginia, Florida, Alabama, California, and Mexico; computer and electronics-related manufacturing facilities in California, chemical processing facilities in Michigan and California; wood treatment facilities in Wisconsin; hazardous and nonhazardous waste treatment, storage, and disposal facilities in Indiana, Alabama, Louisiana, Arizona, and California; a garment manufacturing facility in Texas; a newspaper printing facility in California; a metal tubing manufacturer in Canada; pump manufacturing facilities in the United Kingdom, Germany, and Nebraska; and an industrial port facility in California.
- Assisted with design, implementation and construction oversight of a remediation system for hydrocarbon contaminated soil and ground water from an oil recovery facility in Louisiana. Project involved excavation of a former hydrocarbon waste pit and installation of ground water "pump and treat" remediation system. "Pump and treat" remediation system design involved application of a ground water flow model to determine and locate extraction wells.
- Assisted with implementation of the Superfund selected remedial alternative for a former asbestos mine in California. Project involved preparation of preliminary design documents for sediment retention ponds and diversion channels which included review and application of hydrogeologic and sediment transport flow models.
- Developed and prepared a ground-water monitoring plan for cleanup of hydrocarbon contaminated ground water via an extraction trench for an auto manufacturing facility.

- Assisted with preparation of a Remedial Investigation/Feasibility Study (RI/FS) of chlorinated-solvent contamination from an electronics manufacturer. Project responsibilities involved application of a ground-water model to determine contaminant transport between two aquifers.
- Managed preparation of NPDES storm water permit applications for discharges from construction sites, hazardous waste storage facilities, and fuel recovery facilities in California, Hawaii and Louisiana.
- Directed study to determine compliance with California's Proposition No. 65 for numerous food manufacturing plants. Project involved use of USEPA air emissions models to estimate potential air exposure to contaminants and development of a vadose model to estimate concentrations of ground-water contaminants.
- Managed closure and removal of several petroleum-containing USTs in California and New York. Projects involved oversight of tank removals, soil sampling, installation of ground-water monitoring wells, coordination with regulatory agencies and preparation of site investigation and closure reports.
- Managed closure of a microchip and metal plating facility. Project involved coordination and oversight of a subcontractor to remove and decontaminate all equipment, sampling to verify if residual contamination remained, preparation of a closure plan and final closure report, and coordination with regulatory agencies.

Prior to joining ENVIRON, Anne had the following positions:

- Manager of remediation and design engineering, Ogden Environmental and Energy Services Company, Honolulu and San Francisco offices.
  - Managed numerous hazardous waste and petroleum hydrocarbon investigation and remediation projects in California, Alaska, Hawaii and Guam.
  - Provided technical management for environmental engineering and remedial design projects on a $210 million dollar CLEAN Contract with the US Navy in Hawaii.
- Associate Engineer, McGill-Martin-Self, Orinda, California.
  - Designed and managed land development projects. Performed hydraulic and hydrogeologic analysis of floods, landslides, and land development projects.
  - Designed and implemented grading, drainage, and erosion control plans for various engineering projects.
  - Conducted numerous investigations on the causes and remediation measures for seepage in hillsides and various types of engineering excavations.
  - Audited and assessed residential developments for compliance with building codes and other regulations.

CREDENTIALS

Registrations and Certifications

Registered Professional Engineer, State of California, 1988

Registered Professional Engineer, State of Hawaii, 1992

Registered Professional Engineer, State of Alaska, 1997

Registered Professional Engineer, State of Washington, 1997

Professional Affiliations and Activities

Member, American Society of Civil Engineers

PUBLICATIONS & PRESENTATIONS

Comparison of Modeled to Estimated Emission Rates at Active Hazardous Waste Landfill (with D. Suder and C. Schmidt). 1990. Presented at the Air and Waste Management Association, annual conference.

Estimation of Hydraulic Conductivity for a Tidally-Influenced Unconfined Aquifer (with Jeff Cotter). Presented at 1993 Joint CSCE–ASCE National Conference on Environmental Engineering, July, 1993.

Daniel Clark | Senior Associate

Emeryville, California
+1 510 420 2563 | dclark@environcorp.com

Dan Clark has eight years of experience in environmental consulting, with emphasis in the areas of geology, health and safety, site assessment and remediation. His work at ENVIRON includes planning, coordinating, and implementing field investigation programs; conducting field work and research in support of litigation cases; and writing proposals, work plans, and reports. In addition, Dan is a Health and Safety Coordinator for ENVIRON's Emeryville and San Francisco, California offices, and is responsible for reviewing health and safety plans, tracking office health and safety training programs, and creating and implementing office safety and emergency preparedness plans.

EDUCATION

2002 BA, Earth and Environmental Science, Wesleyan University

EXPERIENCE

Sediment, Soil, Soil Vapor, and Ground Water Investigations

- Performed sampling and processing of river sediment cores collected from contaminated river channels in Michigan.
- Worked on an extensive remediation program at a large industrial campus in South San Jose, California, including dual-phase extraction system operations and maintenance, well installation, groundwater sampling, and soil gas sampling
- Conducted soil and groundwater investigations at a former burn dump landfill site and several other industrial sites in South San Francisco, California.
- Performed field investigations and supervised health and safety protocols at sites impacted with petroleum hydrocarbons, pesticides, dioxins, metals, and other contaminants.

Environmental Litigation

- Performed sampling and research in support of litigation cases and expert testimonials involving petroleum hydrocarbon-impacted properties in California's Central Coast region.
- Performed forensic building material sampling and evidence collection in support of litigation cases involving defective building materials in the southeastern United States.

Prior to joining ENVIRON, Dan was a Staff Geologist at Earth Tech, Inc., where he:

- Performed field work along active railroad corridors in the East Bay and South Bay.
- Conducted soil and groundwater sampling and supervised well installation at a Bay Area oil refinery.
- Managed several industrial storm water sampling programs.
- Performed site reconnaissance and historical research for Phase I Environmental Site Assessments taking place in California, Utah, Oregon, and Washington.

Daniel Clark

CREDENTIALS

Registrations and Certifications

OSHA 40-Hour HAZWOPER

OSHA Site Supervisor

May 29, 2013

Via Email

Mr. Jeff White
Senior Development Director
AvalonBay Communities, Inc.
400 Race Street, Suite 200
San Jose, CA 95126

Re: Summary of Environmental Findings
Nady Systems, Inc.
6701 Shellmound Street or 6707 Bay Street
Emeryville, CA 94608

Dear Jeff:

ENVIRON International Corporation ("ENVIRON") is pleased to present this brief summary of environmental conditions at the Nady Systems property in Emeryville, California (herein referred to as the "facility," "property," or the "site").

This summary is based on the information listed in Attachment A and has been prepared by Anne Gates, P.E., who has been investigating and remediating sites in Emeryville (and the San Francisco Bay Area) since 1988. Her resume is attached in Attachment D.

Site Description

Nady Systems, Inc. owns and operates an electronic sound equipment warehouse and office facility located at 6707 Bay Street (also known as 6701 Shellmound Street) in Emeryville, Alameda County, California. The approximately 2.5-acre site is located approximately 0.5 mile north-northeast of downtown Emeryville, California.

According to the Assessor's Office, the assessor's parcel number (APN) for the site is 49-1490-002. The site is developed with two buildings, the first of which is an approximately 100,000-square-foot warehouse building located in the southern portion of the site. The two-story building consists of a slab-on-grade foundation with a steel frame and concrete pre-fabricated walls. The second building is a two-story office building located in the north-central portion of the site. The site also includes asphalt-paved parking lots located along the northeastern and northern perimeters of the building footprints. The site is bounded by Shellmound Street to the east, Interstate Highway 80 access ramps to the north and west, and Expressions College to the south. The site is accessed from Shellmound Street at the eastern site boundary. The property is located in a mixed industrial and commercial land use area. The nearest residential area is located approximately 700 feet south of the site.

Current and Historical Site Use

Currently, the major operations conducted at the facility consist of office operations, warehouse operations, shipping and receiving, and minor repairs of microphones and other electronic sound equipment. No chlorinated solvents are used at the facility, and use of such chemicals would not be expected based on the nature of current site operations. Nady Systems has occupied the site since 1990.

From approximately 1979 to 1990, the site was owned by MRCP Realty and leased by Mike Roberts Color Production for color printing operations. From 1963 to 1979, Dymo Industries, Inc., a label tape manufacturer operated onsite. Prior to 1963, the site was largely marshland. Beginning in approximately 1947, along with many low-lying areas in Emeryville and San Francisco, the site was reclaimed from the San Francisco Bay, by gradually filling the low-lying marsh along the bay margin with concrete rubble, bricks, soil and other waste material. During this time period, according to some site documents, a municipal landfill may have operated on a portion of the site and the properties to the south.

Environmental Conditions

Site records indicate that volatile organic compounds (VOCs) were previously used and stored on the site in drums and underground storage tanks (USTs) by Mike Roberts Color Production and Dymo Industries. The drum storage area and USTs were removed in the early 1990s. Site documents also indicate that there is residual contamination in soil from fill materials present on the site. Some limited environmental remediation activities were performed at the site from 1990 to 1994 under the oversight of the Alameda County Environmental Health Services Agency (the “County”). These remediation activities consisted of UST removal, soil excavation in a few “hot spot” locations, groundwater monitoring and soil vapor extraction.

In a letter dated December 16, 1996, the County issued a conditional site closure letter stating that further remediation and/or monitoring related to the former USTs removed from the site is not required but the recorded deed notice must be modified to include the following risk management measures:

1. The shallow groundwater beneath the site shall not be used.
2. Appropriate Health and Safety plans shall be prepared prior to and followed during any activities involving exposure to pollution in soil or groundwater.
3. A health risk assessment shall be required if a change in land use, structural configuration or site activities are proposed such that more conservative scenarios should be evaluated.
4. Potential vertical conduits between the shallow and deep aquifers shall not be created.

Previous environmental investigations at the site, including ENVIRON’s investigation in 2013, indicate that elevated concentrations of metals (primarily lead), and total petroleum hydrocarbons (TPH) are present in soil and groundwater at the site. PCBs are also present in soil. Benzene, a VOC, is also present at elevated concentrations in soil gas and groundwater at

the site. The results of ENVIRON's 2013 sampling investigation and a summary of historical sampling data are summarized Attachment B. The attached Figure 1 shows sampling locations.

Potential Environmental Remediation Activities for Redevelopment of the Site

To date, the environmental contamination that has been identified at the Nady Systems site is similar to other types of environmental contamination that have been detected at other former industrial sites in Emeryville. These sites have been subsequently redeveloped for commercial and multi-family residential use. The City of Emeryville has worked collaboratively with the California Environmental Protection Agency (Cal-EPA) Department of Toxic Substances Control (DTSC) to facilitate the environmental assessment, clean-up and re-use of brownfields in Emeryville. For example, the Bay Street site (a 20-acre site located at 5616 Bay Street) was redeveloped in 2001 for commercial and residential re-use under the oversight of DTSC and in close collaboration with the City of Emeryville. Contaminants at the Bay Street site included metals (lead and arsenic), PCBs, TPH and benzene in soil and groundwater. The remediation approach that was used at Bay Street (as well as other sites in Emeryville) consisted of the following components:

1. Capping of the site with buildings and pavement to prevent direct contact with soil and/or groundwater;
2. Long-term maintenance of the cap;
3. Long-term monitoring of groundwater and removal or containment of the source of groundwater contaminants;
4. Implementation of a deed restriction that: a) prevents use of site groundwater; b) prevents development of ground-level residential units, hospitals or daycare centers; and c) requires implementation of a regulatory agency-approved soil management plan during soil disturbing activities;

It is likely that the Nady Systems site could also be redeveloped for residential re-use by implementation of the above measures. However based on ENVIRON's sampling investigation in 2013, the Nady Systems site has potentially higher concentrations of metals (such as lead, arsenic and mercury) in groundwater than many Emeryville sites (see Table 4 in Attachment B). The source of the metals contamination may be related to the former color printing operations that occurred at the site prior to Nady Systems' occupancy. Further investigation will be needed to determine the horizontal and vertical extent of the metals in soil and groundwater at the site. Depending on the outcome of the investigation, it is possible that additional remediation of metal-contaminated soil and groundwater may be required. Remediation may include excavation and offsite disposal of metal-contaminated soils that are potential source areas for groundwater contamination.

Environmental site closure and approval for the above remediation measures is typically performed by utilizing the Voluntary Cleanup Program under the oversight of the DTSC or the Site Cleanup Program under Cal-EPA San Francisco Bay Regional Water Quality Control Board (SFRWQCB). The steps required to obtain site closure for the site would most likely involve the

following: 1) completion of a site characterization investigation to determine the horizontal and vertical extent of environmental contamination in soil and groundwater at the site; 2) preparation of a human health risk assessment to determine whether remediation measures are required post-development; and 3) assuming remediation measures are necessary, preparation of a remediation plan, typically a Removal Action Workplan (RAW). These documents would be reviewed and approved by either DTSC or the SFRWQCB. The RAW would then be implemented, often during construction and redevelopment of the site and a closure certification obtained from the regulatory agency following implementation of the RAW. If long-term operation and maintenance (O&M), such as groundwater monitoring, is required then the responsible party for the monitoring would enter into an O&M agreement with the regulatory agency. Depending on the timeline for redevelopment and based on past experience in Emeryville, it is likely that regulatory approval of the RAW for the site can be obtained within 12 to 24 months.

Attachment C presents a range of the estimated costs to complete and implement the potential environmental investigation and remediation steps. The estimate assumes a best-case and worst-case conservative cost scenario for environmental remediation. With respect to the Nady Systems site, it is important to note that the lead concentrations in many samples of shallow soil were above California Hazardous Waste Levels and in some instances may be above Federal Hazardous Waste Levels. This means that soil that is excavated and not able to be reused at the site may require management and disposal as a California Hazardous Waste. Disposal of soil that is California Hazardous Waste is very costly, approximately $100 per ton (including transportation and disposal). Disposal of soil that has lead levels above Federal Hazardous Waste Levels requires stabilization prior to disposal in the landfill, which is very costly, approximately $300 per ton (including transportation, stabilization and disposal).

The concentration of lead in shallow groundwater samples was also above California Hazardous Waste levels. As a result, groundwater pumped during dewatering will require special treatment prior to on- or off-site disposal. For example, for small dewatering volumes, assuming groundwater is collected and disposed of offsite in tanks, the cost for disposal could range from $2 to $3 per gallon for the site. For larger volumes (greater than 100,000 gallons), a permitted portable treatment unit would be needed to treat and discharge the groundwater to the sanitary sewer at a cost of approximately $0.65 per gallon. Because of the elevated concentrations of lead in shallow groundwater, it is very important to consider the additional cost of dewatering when designing the foundation and subgrade structures.

CLOSING

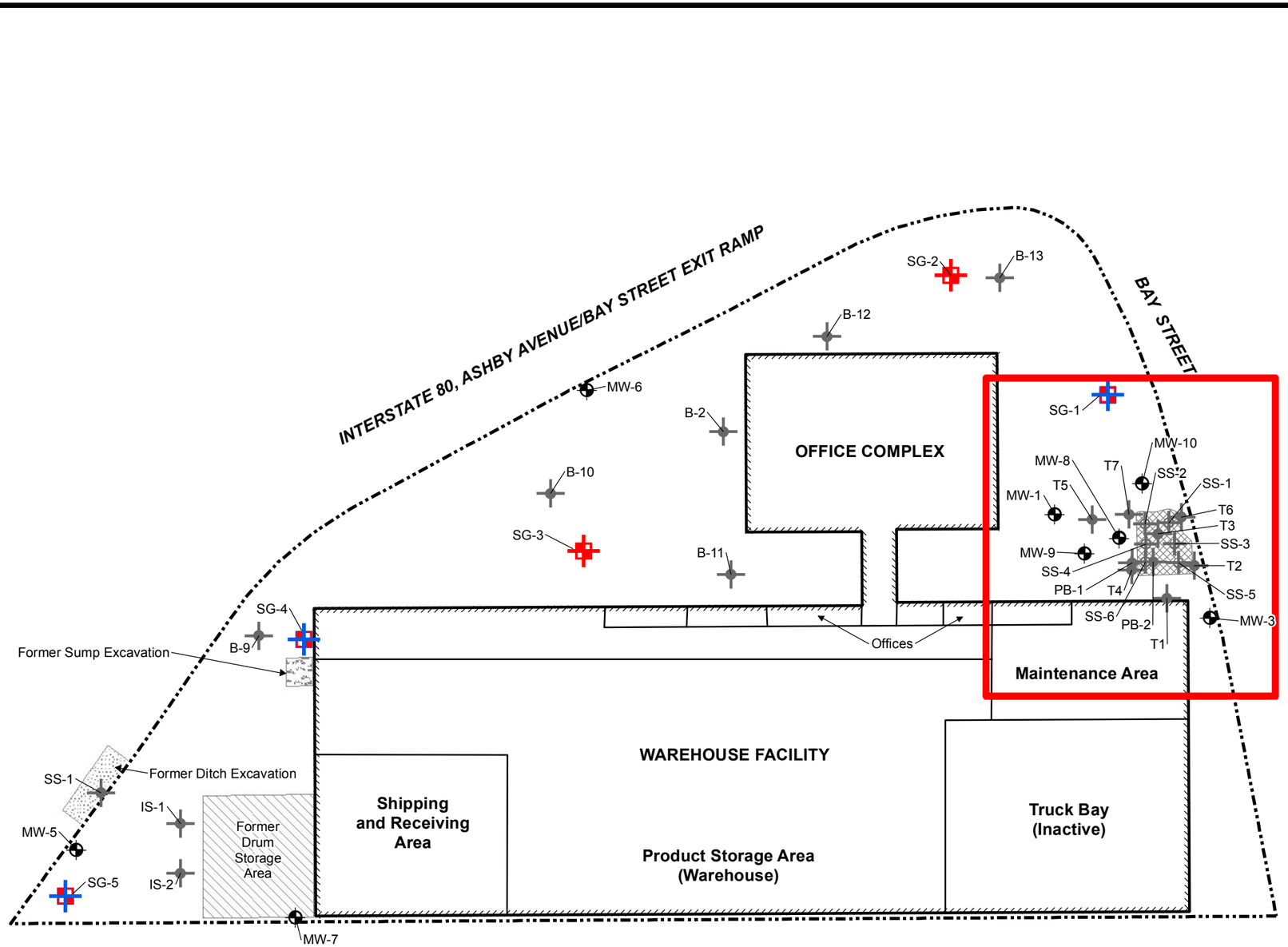
We appreciate the opportunity to be of service to you. If you have questions regarding any of the information in this proposal, please call me at (510) 420-2524.

Sincerely,

Anne W Gates

Anne Gates, PE
Senior Manager

Attachments
Figure 1: Environmental Sampling Locations
Attachment A: Sources of Information for Environmental Summary
Attachment B: Environmental Sampling Results
Attachment C: Estimated Costs for Environmental Remediation
Attachment D: Resume of Anne Gates



Path: Q:\DRAWINGS\0332356A\0332356A-PropSoilSampLocation.mxd

Legend

- Soil, Soil Gas and Groundwater Sampling Location
- Soil Gas and Soil Sampling Location
- Monitoring Well
- Historical Test Boring
- Historical Confirmation Sample from Tank Excavation
- wall
- Building
- Property Line
- Approximate Extent of Previous Tank Excavation

Note: Interior building dimensions are approximate.

N

0 50 100

SCALE IN FEET

ENVIRON

Soil, Soil Gas, and Groundwater Sampling Locations
6707 Bay Street
Emeryville, California

Date:	Contract Number:		Figure
4/29/13	03-32356A		1
Drafter: RS	Approved:	Revised:	

Attachment A

Sources of Information for Environmental Summary

Sources of Information for Environmental Summary

- A visit to the site by Dan Clark of ENVIRON on April 9, 2013 to observe the exterior and interior features of the site.
- An interview during the site visit with the following "facility personnel" (year employee started working at the site indicated in parentheses): John Nady, President (1990) and Toby Nady, Vice President (1990).
- A review of information contained in federal and state environmental databases, as obtained from the sources noted below:
  - A radius report prepared by Environmental Data Resources, Inc. (EDR, see Appendix B), which presents the results of searches of federal and state databases for the subject site, as well as properties near the subject site. The radius searched for each database, as well as the databases themselves, was selected in accordance with the ASTM Standard.
  - The United States Environmental Protection Agency's (USEPA's) Envirofacts database, which provides site information contained in multiple USEPA regulatory databases.
  - The USEPA's Enforcement and Compliance History Online (ECHO) database, which provides information on sites' enforcement and compliance history.
  - A review of files available on the Alameda County Department of Environmental Health (ACDEH).
  - Readily available historical sources, including (where available) historical topographic maps and aerial photographs, city directories, and Sanborn Maps, to develop a history of the previous uses of the site and surrounding area.
  - Historical and site-specific information obtained from the following local agencies: the Emeryville Building Department (Building Department), the Alameda County Assessor's Office (Assessor), and the Alameda County Fire Department (Fire Department).
  - E-mail correspondence with Ms. Yolanda Cole, a representative of ACDEH regarding the presence or absence of contamination at the site. Ms. Cole referred ENVIRON to the ACDEH online mapping tool which provides PDFs of all reports pertaining to the site that are in ACDEH's possession.
- A review of physical setting sources including:
  - The current USGS 7.5-minute topographic map that shows the area on which the site is located.
  - Geologic, hydrogeologic, or hydrologic sources as provided in the EDR report and in the previous environmental reports for the site, as listed below.
- A review of documents provided to ENVIRON by facility personnel, including correspondence with regulatory agencies. In addition, ENVIRON was provided with the following previous environmental assessment reports:

- *Final Report/Tank Removal, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California*, prepared by LW Environmental Services, Inc., dated November 3, 1989.
- *Phase I Review of Documents and Verification of Groundwater Flow Direction*, prepared by McLaren, Inc., dated November 21, 1989.
- *Environmental Assessment, 6707 Bay Street, Emeryville, California*, prepared by SCS Engineers, Inc., dated January 30, 1990.
- *Soil Vapor Recovery and Groundwater Remediation Systems,* prepared by SCS Engineers, Inc., dated February 26, 1990.
- *Sump Sampling at 6707 Bay Street, Emeryville, California*, prepared by SCS Engineers, Inc., dated March 6, 1990.
- *Interim Report One, 6707 Bay Street, Emeryville, California*, prepared by SCS Engineers, Inc., dated February 25, 1991.
- *Letter Report, Nady Systems Inc. Site, 6707 Bay Street, Emeryville, California*, prepared by PES Environmental, Inc., dated December 9, 1991.
- *Site Inspection, Mike Roberts Color Productions, 6707 Bay Street, Emeryville, California,* prepared by Bechtel Environmental, Inc. for EPA, dated October 22, 1992.
- *Summary of Environmental Investigation/Remediation, 6707 Bay Street, Emeryville, California,* prepared by Subsurface Consultants Inc., dated May 23, 1994.
- *Addendum No. 1, Work Plan and Revised Request for "No Further Action", Alternate Compliance Points Monitoring Program,* prepared by Subsurface Consultants Inc., dated January 17, 1995.
- *Draft Phase I Environmental Site Assessment, 6701-6707 Bay Street, Emeryville, California*, prepared by URS Corp., dated October 7, 2005.
- *Final Report, Geotechnical Characterization, 6701 Shellmound Street/Bay Street, Emeryville, California,* prepared by URS Corp., dated October 7, 2005.

A Phase 2 Environmental Investigation completed by ENVIRON at the Site in April 2013. This investigation included the following:

- **Soil Gas Sampling**. Soil gas samples were collected from 5 locations throughout the Site but outside of the buildings. Soil gas samples were collected from semi-permanent soil gas probes installed at depths of approximately 5 feet below ground surface (bgs). Samples were collected into individual Summa™ canisters for off-site analysis of volatile organic compounds (VOCs) by USEPA Method TO-15 and fixed gases including methane.

- **Shallow Soil Sampling.** Discrete soil samples were collected from native soil at approximately 3 to 5 feet bgs from five soil borings installed at the same location as soil gas samples. Samples were analyzed on for CAM 17 Metals, Organochlorine Pesticides/PCBs and total petroleum hydrocarbons (TPH), diesel and motor oil fractions.

- **Shallow Groundwater Sampling**. Grab groundwater samples were collected from three temporary wells installed to depths between 10 and 12 feet bgs. Groundwater samples were analyzed for VOCs, TPH and CAM 17 Metals from these wells.

Attachment B
Environmental Sampling Results

Table 1 - Organics in Soil
2013 Subsurface Investigation by ENVIRON
Nady Systems

Borehole ID	Sample Depth	TPH (mg/kg)		Pesticides and PCBs (mg/kg)		
		TPH-Diesel	TPH-Motor Oil	DDT	Arochlor 1260	Total PCBs
SG-1	3.5-4.0	**43**	**250**	**0.03**	ND < 0.5	ND < 0.5
SG-2	3.0-3.5	**43**	**340**	**0.068**	ND < 1.0	ND < 1.0
SG-3	3.5-4.0	**290**	**1,400**	**0.25**	**14**	**14**
SG-4	3.5-4.0	**200**	**400**	**0.42**	**8**	**8**
SG-5	4.5-5.0	**33**	**290**	ND < 0.020	ND < 1.0	ND < 1.0
CHHSL - Residential [1]		*na*	*na*	*1.6*	*0.089*	*0.089*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource [2]		*100*	*500*	*1.7*	*0.22*	*0.22*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
CHHSL: California Human Health Screening Level
DDT: dichlorodiphenyltrichloroethane
ESL: Environmental Screening Level
mg/kg: milligrams per kilogram
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
NDW: Non-Drinking Water Resource Area
PCBs: Polychlorinated Biphenyls
TPH: Total Petroleum Hydrocarbons
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table 2 - Metals in Soil
2013 Subsurface Investigation by ENVIRON
Nady Systems

Borehole ID	Sample Depths	Metals (mg/kg, except where noted)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Lead - STLC (mg/L)	Lead - TCLP (mg/L)	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
SG-1	3.5-4.0	**5.2**	**11**	**280**	ND < 0.5	**1**	**100**	**22**	**480**	**990**	**12**	ND<0.2	**0.2**	**4.2**	**220**	**0.6**	**60**	**490**
SG-2	3.0-3.5	**1.9**	**12**	**160**	**0.51**	**0.84**	**50**	**11**	**88**	**120**	**4**	ND<0.2	**0.36**	**1.3**	**63**	ND < 0.5	**50**	**220**
SG-3	3.5-4.0	**8.9**	**7.3**	**230**	ND < 0.5	**0.94**	**54**	**9.3**	**160**	**830**	--	--	**0.2**	**1.3**	**51**	ND < 0.5	**49**	**240**
SG-4	3.5-4.0	**2.6**	**6.9**	**170**	ND < 0.5	**0.82**	**68**	**14**	**78**	**130**	--	--	**0.32**	**2.9**	**83**	ND < 0.5	**45**	**440**
SG-5	4.5-5.0	**1**	**9.9**	**120**	ND < 0.5	**0.44**	**44**	**7.3**	**44**	**75**	--	--	**0.12**	**0.5**	**34**	ND < 0.5	**41**	**97**
CHHSL - Residential [1]		*30*	*0.07*	*5,200*	*150*	*1.7*	*10,000*	*660*	*3,000*	*150*	*N/A*	*N/A*	*18*	*380*	*1,600*	*380*	*530*	*23,000*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource [2]		*20*	*0.39*	*750*	*4*	*12*	*750*	*0.33*	*230*	*80*	*N/A*	*N/A*	*6.7*	*40*	*150*	*20*	*200*	*600*

Notes:
exceeds regulatory criteria
exceeds California hazardous waste criteria
Only detected compounds are shown.
Detections are in **bold**.
mg/kg: milligrams per kilogram
mg/L: milligrams per liter
N/A: Not Applicable
--: not analyzed
ND < ##: Not detected at or above laboratory reporting limit shown
CHHSL: California Human Health Screening Level
ESL: Environmental Screening Level
NDW: Non-Drinking Water Resource Area
STLC: Soluble Threshold Limit Concentration
TCLP: Toxicity Characteristic Leaching Procedure
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table 3 - Organics in Groundwater
2013 Subsurface Investigation by ENVIRON
Nady Systems

Location ID	Depth to Water (ft bgs)	Observations	TPH (ug/L)		VOCs (ug/L)															
			TPH-Diesel	TPH-Motor Oil	Benzene	TBA	n-Butyl Benzene	sec-Butyl Benzene	Carbon disulfide	Chloro-benzene	Ethyl-benzene	cis-1,2-DCE	Isopropyl-benzene	4-isopropyl toluene	Naph-thalene	n-Propyl benzene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SG-1	10.75	Gray color, no odor	920	5,600	ND < 0.5	ND < 2.0	ND < 0.5	ND < 0.5	**1.1**	**4.4**	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
SG-4	11.75	Black color, strong H2S odor	4,700	12,000	**2**	**2.3**	ND < 0.5	**1.3**	**3.9**	ND < 0.5	ND < 0.5	**0.69**	**1.1**	ND < 0.5	ND < 0.5	ND < 0.5	**0.54**	ND < 0.5	ND < 0.5	ND < 0.5
SG-5	10.29	Black color, sheen, H2S odor	58,000	9,500	**8.1**	ND < 20	**32**	**38**	ND < 5.0	ND < 5.0	**45**	ND < 5.0	**67**	**13**	**84**	**87**	ND < 5.0	**350**	**24**	**59**
MCL - Drinking Water[1]			*na*	*na*	*5*	*na*	*na*	*na*	*na*	*100*	*700*	*70*	*na*	*na*	*na*	*na*	*1,000*	*na*	*na*	*10,000*
ESL - Groundwater[2]			*100*	*100*	*1*	*12*	*na*	*na*	*na*	*25*	*30*	*6*	*na*	*na*	*6.2*	*na*	*40*	*na*	*na*	*20*
ESL - Evaluation of Potential Vapor Intrusion Concerns, Residential[2]			*na*	*na*	*27*	*na*	*na*	*na*	*na*	*na*	*310*	*na*	*na*	*na*	*160*	*na*	*95,000*	*na*	*na*	*37,000*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
bgs: below ground surface
DCE: dichloroethene
ESL: Environmental Screening Level
H2S: hydrogen sulfide
ug/L: micrograms per liter
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
NDW: Non-Drinking Water Resource Area
TBA: t-Butyl alcohol
TPH: Total Petroleum Hydrocarbons
VOCs: Volatile Organic Compounds

1. United States Environmental Protection Agency, 2009. *National Primary Drinking Water Regulations*. May.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)*. February.

Table 4 - Metals in Groundwater
2013 Subsurface Investigation by ENVIRON
Nady Systems

Location ID	Depth to Water (ft bgs)	Observations	Total Metals (ug/L)													
			Antimony	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
SG-1	10.75	Gray color, no odor	ND < 50	**210**	**12,000**	ND < 25	**4,100**	**820**	**4,200**	**2,700**	**2.7**	**77**	**4,600**	ND < 19	**2,100**	**5,900**
SG-4	11.75	Black color, strong H2S odor	**150**	**650**	**23,000**	**210**	**1,400**	**210**	**8,300**	**26,000**	**130**	**270**	**1,600**	**19**	**480**	**78,000**
SG-5	10.29	Black color, sheen, H2S odor	**94**	**1,600**	**25,000**	**320**	**1,800**	**490**	**34,000**	**60,000**	**52**	**180**	**2,700**	**53**	**1,900**	**160,000**
MCL - Drinking Water[1]			*6*	*10*	*2,000*	*5*	*100*	*na*	*1,300*	*15*	*2*	*na*	*na*	*na*	*na*	*na*
ESL - Groundwater[2]			*6*	*36*	*1,000*	*0.25*	*50*	*3*	*3.1*	*2.5*	*0.025*	*180*	*8.2*	*0.19*	*15*	*81.0*
STLC - California Hazardous Waste Criteria			*15,000*	*5,000*	*100,000*	*1,000*	*5,000*	*80,000*	*25,000*	*5,000*	*200*	*350,000*	*20,000*	*5,000*	*24,000*	*250,000*

Notes:
exceeds regulatory criteria
exceeds hazardous waste and regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
bgs: below ground surface
ug/L: micrograms per liter
H2S: hydrogen sulfide
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
STLC: Soluble Threshold Limit Concentration
1. United States Environmental Protection Agency, 2009. *National Primary Drinking Water Regulations*. May.
2. San Francisco Bay Regional Water Quality Control Board, 2013. *2013 Tier 1 ESL Lookup Tables*. February.

Table 5 - VOCs and Fixed Gases in Soil Gas
2013 Subsurface Investigation by ENVIRON
Nady Systems

		VOCs (ug/m^3)															Fixed Gases (% by volume)			
Location ID	**Depth to Water (ft bgs)**	**Acetone**	**Benzene**	**Chloro-methane**	**Ethyl-benzene**	**4-Ethyl-toluene**	**2-Butanone (MEK)**	**PCE**	**TCE**	**Toluene**	**1,2,4-Trimethyl-benzene**	**1,3,5-Trimethyl-benzene**	**cis-1,2-DCE**	**o-Xylene**	**p/m-Xylene**	**1,1-DFA (Leak Check)**	**Methane**	**Carbon Dioxide**	**Oxygen and Argon**	**Nitrogen**
SG-1	10.75	ND < 7.2	**8.6**	ND < 1.6	ND < 3.3	ND < 3.7	ND < 6.7	ND < 5.2	ND < 4.1	**3.4**	ND < 11	ND < 3.7	ND < 3.0	ND < 3.3	ND < 13	ND < 8.2	ND < 0.5	**8.49**	**8.9**	**82.6**
SG-2	--	ND < 13	ND < 4.5	ND < 2.9	ND < 6.1	**13**	ND < 12	ND < 9.6	ND < 7.6	ND < 5.3	**37**	**16**	ND < 5.6	ND < 6.1	ND < 24	ND < 15	ND < 0.5	**10.7**	**12**	**77.2**
SG-3	--	ND < 38	**73**	ND < 8.3	ND < 17	ND < 20	ND < 35	**30**	ND < 21	**18**	ND < 59	ND < 20	**24**	ND < 17	ND < 69	**140**	**0.864**	ND < 0.5	**19.9**	**79.3**
SG-4	11.75	**19**	**37**	**2.4**	**4.6**	ND < 3.6	**7.7**	ND < 4.9	**9.6**	**16**	ND < 11	ND < 3.6	ND < 2.9	**5.8**	**16**	ND < 7.8	ND < 0.5	**9.52**	**11.4**	**79.1**
SG-5	10.29	**19**	**9.5**	ND < 1.7	**6.2**	ND < 4.0	ND < 7.3	ND < 5.6	**9.1**	**6.1**	ND < 12	ND < 4.0	ND < 3.3	**12**	**26**	ND < 8.9	ND < 0.5	**8.5**	**13.6**	**77.9**
SG-2-Shroud	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**130,000**	--	--	--	--
Shallow Soil Gas CHHSL - Residential [1]		*na*	*36.2*	*na*	*na*	*na*	*na*	*180*	*528*	*135,000*	*na*	*na*	*15,900*	*315,000*	*317,000*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
na: not available
N/A: not applicable
ND < ##: Not detected at or above laboratory reporting limit shown
--: not analyzed
bgs: below ground surface
CHHSL: California Human Health Screening Level
DCE: dichloroethene
DFA: difluoroethane
PCE: tetrachloroethene
TCE: trichloroethene
ug/m^3: micrograms per cubic meter
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.

Table A-1 - Historical Total Petroleum Hydrocarbons (TPH) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	TPH (mg/kg)		
				Oil & Grease	TEPH	Total VOCs
IS-1	4/26/1989	Drum Area	3.5	**1,915**	**46**	ND<10
			7	**3,390**	**200**	ND<10
			10	**36,535**	ND<10	ND<10
IS-2	4/26/1989	Drum Area	3	**1,305**	**50**	ND<10
			8.5	**2,185**	ND<10	**300**
B-1/MW-1	7/5/1989	West of Tanks	5.5	**845**	**12**	ND<10
			10.5	ND<50	ND<10	ND<10
			16	**1,600**	**63**	ND<10
			20.5	**80**	ND<10	ND<10
			25.5	**95**	ND<10	ND<10
			30.5	ND<50	ND<10	ND<10
B-2	7/5/1989	West of office	0.5	ND<50	ND<10	ND<10
			6	**1,160**	**19**	ND<10
			10	**14,900**	**172**	**20**
			16	ND<50	ND<10	ND<10
B-3/MW-3	8/28/1989	SE of Tanks	5	**1,845**	**30**	ND<10
			12	**95**	**20**	ND<10
			15	**625**	**260**	**120**
			20	ND<20	ND<10	ND<10
			25	**20**	ND<10	ND<10
B-4	8/28/1989	Location unknown	4.5	**6,685**	ND<10	ND<10
			10	**25,470**	**170**	ND<10
			14.5	ND<20	ND<10	ND<10
B-5/MW-5	8/31/1989	At trench and drum area	6	**330**	ND<10	ND<10
			11	**3,580**	**15**	**25**
			15.5	**1,200**	**15**	**20**
			22.5	**110**	**20**	ND<10
			25.5	**115**	ND<10	ND<10
B-6/MW-6	8/31/1989	NW site boundary	20.5	**100**	ND<10	ND<10
			25.5	**190**	ND<10	ND<10
SS-1-E	10/5/1989	UST Confirmation	2' Beneath UST	--	**12**	**12**
SS-2-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**11**	ND<10
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	--	ND<10	ND<10
SS-4-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**60**	**240**
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	--	**35**	**115**
SS-6-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**700**	**460**
B-7/MW-7	1/3/1990	Drum Area	4	**9,000**	ND<10	ND<10
			9	**8,800**	**788**	ND<10
B-8/MW-8	1/3/1990	Downgradient of USTs	4	**2,000**	ND<10	ND<10
			9	**20,000**	ND<10	ND<10
B-9	1/4/1990	At sump	4	**23,000**	ND<10	ND<10
			9	**15,000**	**5,050**	ND<10
B-10	1/4/1990	NW part of site	4	**9,500**	**380**	ND<10
			9	**6,300**	ND<10	ND<10
B-11	1/4/1990	Between office and warehouse	4	**45,000**	ND<10	ND<10
			9	**30,400**	ND<10	ND<10
B-12	1/4/1990	N of office	4	**12,000**	ND<10	ND<10
			9	**38,800**	ND<10	ND<10
B-13	1/4/1990	N part of site	4	**9,400**	ND<10	ND<10
			9	**3,000**	ND<10	ND<10
Sump	1/5/1990	Sump Excavation	Confirmation	**10,500**	ND<10	ND<10
MW-9	4/13/1994	W of Tank Excavation	8.5	--	ND<1	--
			15.5	**470**	--	--
MW-10	4/14/1994	N of Tank Excavation	9.5	--		
			15.5	**9,400**	**7,300**	**2**
T-1	4/13/1994	S of tank excavation	8	--	--	--
			14	--	**96**	ND<1
T-2	4/13/1994	SE tank excavation	6	**160**	**40**	--
			8.5	--	--	ND<1
T-3	4/13/1994	Bottom tank excavation	8	--	--	ND<1
			14.5	--	--	--
T-4	4/14/1994	SW tank excavation	9	--	--	ND<1
			14.5	--	--	--
T-5	4/14/1994	W of tank excavation	5	**710**	ND<10	ND<1
			9	ND<50	ND<1	ND<1
			14.5	--	--	--
T-7	4/14/1994	NW tank excavation	7.5	**68**	ND<10	ND<1
			14	--	ND<20	160
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [1]				*500*	*100*	*na*

Notes:
exceeds regulatory criteria
Only locations with detected TPH and/or Total VOC data are shown.
mg/kg: milligrams per kilogram
na: not available
ND<##: Not detected at or above laboratory reporting limit shown.
TEPH: Total Extractable Petroleum Hydrocarbons
TPH: Total Petroleum Hydrocarbons
VOCs: Volatile Organic Compounds
UST: Underground storage tank
1. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table A-2 - Historical Volatile Organic Compound (VOC) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths (ft bgs)	VOCs (ug/kg)											
				Acetone	Benzene	Ethylbenzene	Toluene	Total Xylenes	MIBK	1,2-DCB	1,3-DCB	1,4-DCB	MEK	Carbon Disulfide	Methylene Chloride
SS-1-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<200,000	**1,300**	**40**	NR	**300**	**600,000**	ND<30	**120**	**260**	ND<200,000	ND<80,000	ND<30
SS-2-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<20	**230**	**30**	**60**	**50**	**20**	ND<30	ND<30	ND<30	ND<20	ND<3	ND<30
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	**40**	ND<30	ND<30	**50**	**35**	ND<20	ND<30	ND<30	ND<30	ND<20	ND<3	ND<30
SS-4-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<2,000,000	**1,400**	110	NR	**1,100**	**3,300,000**	**70**	**2,000**	**2,400**	ND<2,000,000	ND<800,000	ND<30
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<400,000	ND<300	ND<300	NR	**1,000**	**180,000**	ND<30	ND<30	ND<30	ND<40,000	ND<20,000	ND<30
SS-6-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<2,000,000	**4,600**	ND<1,500	NR	**7,500**	**5,000,000**	ND<30	ND<30	ND<30	ND<2,000,000	ND<800,000	ND<30
B-7/MW-7	1/3/1990	Drum Area	4	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<10	**250**	**61**	**1,020**	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<100	ND<100	ND<100	ND<100	**8,300**	ND<100	ND<100	ND<100	ND<500	ND<100	ND<50
B-9	1/4/1990	At sump	4	ND<50	ND<10	ND<10	**12**	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	**54**	**140**	**26**	**380**	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
B-11	1/4/1990	Between office and warehouse	4	ND<50	ND<10	ND<10	**15**	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
PB-1	9/5/1991	Soil Boring in tank area	6	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	**2**	ND<5	ND<20	ND<5	ND<5
			8.5	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	**3**	**4**	ND<5	ND<20	ND<5	ND<5
PB-2	9/5/1991	Soil Boring in tank area	5.5	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	ND<5	ND<5	ND<20	ND<5	ND<5
			8	ND<20	**5**	ND<5	ND<5	ND<5	ND<10	**4**	**4**	ND<5	ND<20	ND<5	ND<5
MW-9	4/13/1994	W of Tank Excavation	8.5	**70**	ND<5	ND<5	ND<5	ND<5	**6**	NR	NR	NR	**10**	ND<5	ND<10
			15.5	**140**	**4**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
MW-10	4/14/1994	N of Tank Excavation	9.5	**30**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	ND<10	ND<5	ND<10
			15.5	**320**	ND<10	ND<10	ND<10	ND<10	**11**	NR	NR	NR	**120**	**20**	**40**
T-2	4/13/1994	SE tank excavation	6	--	--	--	--	--	--	--	--	--	--	--	--
			8.5	**110**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
T-3	4/13/1994	Bottom tank excavation	8	**70**	**4**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**10**	ND<5	ND<10
			14.5	**100**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
T-4	4/14/1994	SW tank excavation	9	**50**	ND<5	ND<5	ND<5	ND<5	**10**	NR	NR	NR	**8**	**4**	ND<10
			14.5	**160**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**40**	ND<5	ND<10
T-5	4/14/1994	W of tank excavation	5	--	--	--	--	--	--	--	--	--	--	--	--
			9	**20**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	ND<10	ND<5	ND<10
			14.5	ND<20	**12**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**10**	ND<5	ND<10
T-6	4/14/1994	NE tank excavation	7.5	**100**	ND<5	ND<5	ND<5	ND<5	**6**	NR	NR	NR	**10**	ND<5	ND<10
			14	ND<100	ND<30	ND<30	ND<30	ND<30	ND<50	NR	NR	NR	ND<50	ND<30	ND<50
T-7	4/14/1994	NW tank excavation	7.5	**30**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**9**	ND<5	ND<10
			14	ND<1,000	ND<1,000	**600**	ND<300	ND<300	**500**	NR	NR	NR	ND<500	ND<300	ND<500
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [1]				*500*	*44*	*2,900*	*2,900*	*2,300*	*2,800*	*1,100*	*7,400*	*590*	*6,500*	*na*	*77*

Notes:
exceeds regulatory criteria
Only locations with detected VOCs are shown.
Only detected compounds are shown.
ug/kg: micrograms per kilogram
bgs: below ground surface
DCB: dichlorobenzene
MEK: Methyl ethyl ketone
MIBK: Methyl isobutyl ketone
na: not available
ND<##: Not detected at or above laboratory reporting limit shown
TCA: trichloroethane
TCE: trichloroethene
UST: Underground storage tank
1. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table A-3 - Historical Semi-Volatile Organic Compound (SVOC) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	SVOCs (ug/kg)														
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(k) fluoranthene	Chrysene	Fluor-anthene	Isophor-one	2-Methyl naphthal-ene	Naphthal-ene	Nitro-benzene	Phen-anthrene	Pyrene	Bis (2-ethylhexyl) phthalate	4-Methyl phenol	1,2,4-TCB
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<30	ND<30	ND<30	ND<70	ND<30	ND<30	ND<30	ND<30	ND<30	ND<30	ND<30	ND<300	**200**	**200**
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<200	ND<200	ND<200	ND<400	ND<200	ND<200	**1,000**	**300**	ND<200	ND<200	ND<200	ND<2,000	ND<200	ND<200
B-7/MW-7	1/3/1990	Drum Area	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	**390**	**320**	ND<300	**1,500**	**750**	ND<300	**530**	**380**	ND<2,000	ND<300	ND<300
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**410**	ND<2,000	ND<300	ND<300
B-9	1/4/1990	At sump	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	**690**	**340**	ND<300	**1,100**	**8,900**	ND<300	**590**	**550**	ND<2,000	ND<300	ND<300
B-11	1/4/1990	Between office and warehouse	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**320**	ND<2,000	ND<300	ND<300
			9	**580**	ND<300	ND<300	**820**	**1,100**	ND<300	ND<300	ND<300	ND<300	**560**	**1,800**	ND<2,000	ND<300	ND<300
B-12	1/4/1990	N of office	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**370**	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
B-13	1/4/1990	N part of site	4	ND<300	**470**	ND<300	**390**	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**920**	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
MW-9	4/13/1994	W of Tank Excavation	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**400**	ND<300	ND<300
T-2	4/13/1994	SE tank excavation	6	ND<300	ND<300	**200**	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300
			8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-5	4/14/1994	W of tank excavation	5	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**400**	ND<300	ND<300
			14.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHHSL - Residential [1]				*na*	*38*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [2]				*380*	*38*	*380*	*3,800*	*40,000*	*na*	*250*	*1,700*	*na*	*11,000*	*85,000*	*160,000*	*na*	*7,600*

Notes:
exceeds regulatory criteria
Only locations with detected SVOCs are shown.
Only detected compounds are shown.
na: not available
ND<##: Not detected at or above laboratory reporting limit shown
SVOCs: Semivolatile Organic Compounds
TCB: trichlorobenzene
ug/kg: micrograms per kilogram
UST: Underground storage tank

1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties (Revised 2009)* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table A-4 - Historical Metals Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths (ft bgs)	Metals (mg/kg)														
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
IS-1	4/26/1989	Drum Area	3.5	6.5	ND<2.2	110	0.05	4.1	20.1	5.6	70	100	ND<5	1.2	32.1	15.2	15.4	200
			7	1.4	ND<2.2	130	ND<0.025	4.2	21.5	6.4	104	130	ND<5	ND<1	31.5	ND<0.1	17.3	48.9
			10	1.6	ND<2.2	255	ND<0.025	10.2	63.5	11.4	1,042	4,300	ND<5	3.7	42.6	ND<0.1	17.3	5,400
IS-2	4/26/1989	Drum Area	3	ND<1	ND<2.2	90	ND<0.025	3.2	18.5	6	56.7	90	ND<5	1.2	30.9	ND<0.1	15.6	270
			8.5	ND<1	ND<2.2	35.7	ND<0.025	1.5	6.6	2.8	13.8	5.3	ND<5	ND<1	15.5	ND<0.1	6.7	22.9
B-1/MW-1	7/5/1989	West of Tanks	5.5	ND<1	ND<2.2	92	ND<0.025	1.4	13	5.7	28	61	ND<5	ND<1	14	ND<0.1	15	94
			10.5	ND<1	ND<2.2	21	ND<0.025	0.6	12.5	2.6	4	3	ND<5	ND<1	12.7	ND<0.1	7	5.4
			16	4	ND<2.2	78	ND<0.025	12	42	12.4	15.3	160	ND<5	2.4	30	ND<0.1	32	6,040
			20.5	ND<1	ND<2.2	61	ND<0.025	2.4	15	4.5	23	77	ND<5	ND<1	19	ND<0.1	12	106
			25.5	ND<1	ND<2.2	67	ND<0.025	2	10	8	13	8	ND<5	ND<1	24	ND<0.1	12	27
			30.5	ND<1	ND<2.2	23	ND<0.025	1.2	9.9	3.6	7.4	4.5	ND<5	ND<1	22	ND<0.1	6.7	15
B-2	7/5/1989	West of office	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			6	1.2	ND<2.2	109	ND<0.025	1.6	11.8	5	92	167	ND<5	ND<1	18.5	ND<0.1	9.7	67
			10	ND<1	ND<2.2	41	ND<0.025	ND<0.3	12.7	2.7	22.5	1,360	ND<5	ND<1	12.5	ND<0.1	13	532
			16	1.2	ND<2.2	95	ND<0.025	2.4	43	12	10	11	ND<5	ND<1	79	ND<0.1	10	23
			20.5	ND<1	ND<2.2	35	ND<0.025	1.4	7.8	1.9	9	8.7	ND<5	ND<1	16.6	ND<0.1	17	11
B-5/MW-5	8/31/1989	At trench and drum area	6	ND<1	ND<2.2	29.2	ND<0.025	0.5	13.5	3.4	13.3	9.7	ND<5	ND<1	18	ND<0.1	12	52
			11	1.05	ND<2.2	167.1	ND<0.025	2.15	15.2	8.7	64	164	ND<5	ND<1	22	ND<0.1	23.4	200
			15.5	3.85	ND<2.2	661	ND<0.025	4.5	22.4	8.2	200	1,270	ND<5	ND<1	26.8	ND<0.1	20	1420
			22.5	ND<1	ND<2.2	1,150	ND<0.025	3.8	19	40	44.2	24	ND<5	ND<1	151	ND<0.1	58.3	58.6
			25.5	ND<1	ND<2.2	158	ND<0.025	3.1	21	12.3	22.6	12	ND<5	ND<1	54	ND<0.1	31	42
B-6/MW-6	8/31/1989	NW site boundary	20.5	ND<1	ND<2.2	250	ND<0.025	3.5	23	19	22.5	15.3	ND<5	ND<1	48	ND<0.1	53	47
			25.5	ND<1	ND<2.2	56.5	ND<0.025	3.3	25	11	22	15	ND<5	ND<1	54	ND<0.1	25	42.6
B-7/MW-7	1/3/1990	Drum Area	4	ND<10	ND<16	140	0.48	ND<0.7	32	8.6	27	ND<12	ND<0.09	ND<1	28	ND<0.4	36	79
			9	ND<10	ND<16	24	0.13	ND<0.7	21	ND<2	3.6	ND<12	0.088	ND<1	16	ND<0.4	12	310
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<10	ND<16	42	0.16	ND<0.7	27	2.8	18	ND<12	ND<0.009	ND<1	18	ND<0.4	15	75
			9	ND<10	ND<16	85	0.15	ND<0.7	9.6	ND<2	41	24	0.36	ND<1	6.8	ND<0.4	8.5	120
B-9	1/4/1990	At sump	4	ND<10	ND<16	140	0.41	ND<0.7	33	7.4	55	41	0.45	ND<1	32	ND<0.4	31	120
			9	ND<16	ND<16	610	0.31	44	180	15	2,300	980	0.66	27	350	ND<0.4	26	6,200
B-10	1/4/1990	NW part of site	4	ND<10	ND<16	33	0.05	ND<0.7	23	ND<2	39	42	0.1	ND<1	10	ND<0.4	5	95
			9	ND<16	21	590	0.33	1.3	34	6.9	140	1,500	0.62	ND<1	24	ND<0.4	28	410
B-11	1/4/1990	ween office and wareho	4	ND<10	ND<16	240	0.36	1	22	5.4	44	72	0.092	ND<1	25	ND<0.4	21	940
			9	ND<10	ND<16	160	0.31	0.7	21	3.6	ND<4,500	55	0.012	ND<1	24	ND<0.4	17	160
B-12	1/4/1990	N of office	4	ND<10	ND<16	89	0.23	ND<0.7	36	3.4	170	120	ND<0.009	ND<1	29	ND<0.4	21	150
			9	ND<28	38	540	0.26	7.7	190	28	2,200	3,000	ND<0.009	20	110	ND<0.4	23	3,600
B-13	1/4/1990	N part of site	4	ND<10	ND<16	160	0.36	ND<0.7	62	6.5	120	520	ND<0.009	ND<1	42	ND<0.4	27	300
			9	ND<10	ND<16	37	0.15	ND<0.7	29	2.9	4.9	12	ND<0.009	ND<1	18	ND<0.4	15	210
Sump	1/5/1990	Sump Excavation	Confirmation	ND<10	ND<16	180	0.48	ND<0.7	95	10	49	62	0.022	ND<1	135	ND<0.4	39	150
MW-9	4/13/1994	W of Tank Excavation	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	ND<3	4.2	190	0.43	ND<0.25	26	12	30	19	ND<0.083	ND<1	36	ND<0.5	27	61
MW-10	4/14/1994	N of Tank Excavation	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	4.4	19	140	0.21	3.3	59	10	330	250	0.77	3.1	37	1.1	24	530
T-2	4/13/1994	SE tank excavation	6	5.1	9.3	170	0.23	1	25	8.7	2,100	330	ND<0.087	1.5	55	0.5	26	580
			8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-5	4/14/1994	W of tank excavation	5	ND<2.9	6	130	0.31	0.27	25	9.2	60	61	0.21	ND<0.98	28	ND<0.49	26	88
			9	ND<3	ND<2.5	41	ND<0.10	ND<0.25	23	4.2	14	1.5	ND<0.087	ND<1	19	ND<0.5	15	18
			14.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-7	4/14/1994	NW tank excavation	7.5	ND<3	4.2	150	0.45	0.28	27	10	40	6.1	ND<0.087	ND<0.99	37	ND<0.5	27	62
			14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHHSL - Residential [1]				*30*	*0.07*	*5,200*	*16*	*1.7*	*100,000*	*660*	*3,000*	*80*	*18*	*380*	*1,600*	*380*	*530*	*23,000*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [2]				*20*	*0.39*	*750*	*4*	*12*	*750*	*0.33*	*230*	*80*	*6.7*	*40*	*150*	*20*	*200*	*600*

Notes:
exceeds regulatory and California hazardous waste criteria
exceeds regulatory criteria
Only detected compounds are shown.
bgs: below ground surface
mg/kg: milligrams per kilogram
ND<##: Not detected at or above laboratory reporting limit shown
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties (Revised 2009)*. January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)*. February.

Table A-5 - Historical PCBs Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	PCBs (mg/kg)	
				Arochlor 1260	Other PCBs
B-7/MW-7	1/3/1990	Drum Area	4	ND<1	ND
			9	ND<1	ND
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<1	ND
			9	**2.3**	ND
B-9	1/4/1990	At sump	4	ND<1	ND
			9	ND<1	ND
B-10	1/4/1990	NW part of site	4	ND<1	ND
			9	ND<1	ND
B-11	1/4/1990	Between office and warehouse	4	**2.2**	ND
			9	ND<1	ND
B-12	1/4/1990	N of office	4	ND<1	ND
			9	ND<1	ND
B-13	1/4/1990	N part of site	4	**3.1**	ND
			9	ND<1	ND
Sump	1/5/1990	Sump Excavation	Confirmation	**4.2**	ND
CHHSL - Residential [1]				*0.089*	*0.089*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [2]				*0.22*	*0.22*

Notes:
exceeds regulatory criteria
Only locations with detections are shown.
Only detected compounds are shown.
mg/kg: milligrams per kilogram
ND<##: Not detected at or above laboratory reporting limit shown
PCBs: Polychlorinated biphenyls
UST: Underground storage tank

Attachment C

Estimated Costs for Environmental Remediation Activities
Nady Site Redevelopment

ENVIRON

ESTIMATED COSTS FOR ENVIRONMENTAL REMEDIATION ACTIVITIES AS PART OF REDEVELOPMENT OF NADY SITE IN EMERYVILLE

	Expected Best-Case Estimate				Worst-Case Estimate				
	Unit	Assumed Unit Price	No. of Units	Subtotal	Unit	Assumed Unit Price	No. of Units	Subtotal	Source/Notes/Assumptions
Capital Costs									
1. Environmental Insurance Premium	LS	$ 125,000	1	$ 125,000	LS	$ 150,000	1	$ 150,000	Quote from John Kim at INTEGRO - 3/19/12
2. Complete DTSC-required Site Characterization Investigation	LS	$ 100,000	1	$ 100,000	LS	$ 250,000	1	$ 250,000	
3. Prepare Environmental Remediation Documents to obtain closure from DTSC. Documents include RAW and O&M Plan	LS	$ 150,000	1	$ 150,000	LS	$ 250,000	1	$ 250,000	
4. Install New Groundwater Monitoring Wells	LS	$ 80,000	1	$ 80,000	LS	$ 150,000	1	$ 150,000	Install 10 new shallow wells
5. DTSC Oversight	LS	$ 50,000	1	$ 50,000	LS	$ 100,000	1	$ 100,000	
6. Groundwater Source Remediation	-	$ -		$ -	LS	$ 300,000	1	$ 300,000	
7. Subtotal				***$ 505,000***				***$ 1,200,000***	
Capital Costs Related to Construction of Below Grade Parking Structure									
7. Construction Dewatering	gal	$ 3.00	100,000	$ 300,000	gal	$ 0.65	900,000	$ 585,000	Decon Environmental Phone Call 5/2/2012. For dewatering volumes> 100,000 gallons, water is collected and disposed of offsite in tanks at $2-$3/gallon; For larger volumes, a portable treatment unit will be used to treat and discharge to sanitary sewer. Quantities estimated.
8. Transport and Disposal of Contaminated Soil (California Class 1)	ton	$ 99.20	50,053	$ 4,965,238	ton	$ 99.20	45,048	$ 4,468,714	Disposal costs from Pacific States and Tucker Engr. bids for Archstone Parkside Project in Emeryville May 2012. Lead concentrations in soil exceed State hazardous waste levels; Volume of soil from AvalonBay email dated May 28, 2013.
9. Transport and Disposal of Contaminated Soil (RCRA Hazardous)	ton	-	-	-	ton	$ 300	5,005	$ 1,501,584	Disposal Costs from email dated April 29, 2013 from Jim Gray at Sequoia Construction. Lead concentrations exceed Federal hazardous waste levels. Soil must be stabilized prior to landfill disposal. Worst-case assumes 10 percent of excavated soil must be disposed of as Federal hazardous waste.
10. Subtotal (Lines 7-9) Below Grade Parking Costs				***$ 5,265,238***				***$ 6,555,298***	
Annual Costs									
11. DTSC Oversight	LS	1	$ 10,000	$ 10,000	LS	1	$ 15,000	$ 15,000	
12. Groundwater Monitoring	LS	1	$ 45,000	$ 45,000	LS	1	$ 80,000	$ 80,000	
13. Annual Cap Monitoring	LS	1	$ 2,500	$ 2,500	LS	1	$ 2,500	$ 2,500	
14. Estimated Total Annual Cost Range				***$ 57,500***				***$ 97,500***	
15. Present Value Cost Range for Annual Monitoring (30 yr duration, i=3%)				***$ 1,127,023***				***$ 1,911,039***	
16. ESTIMATED CAPITAL COST & PRESENT VALUE COST (NO SOIL DISPOSAL OR DEWATERING)				***$ 1,632,023***				***$ 3,111,039***	
17. ESTIMATED CAPITAL COST & PRESENT VALUE COST (WITH BELOW GRADE PARKING)				***$ 6,897,261***				***$ 9,666,337***	

Building area (ft2)= 69,000
Below Grade Excavation (CYS)= 25,185
Pile Caps and Elevator Pits (CYS)= 6,098
Utilities (CYS)= 0
cubic yards to tons= 1.6

Attachment D

Resume of Anne Gates, P.E.

Anne Wooster Gates, PE | Senior Manager

Emeryville, California
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Anne Gates has been a licensed professional engineer in California since 1987, with over 25 years of experience in consulting engineering related to environmental investigations, feasibility study analyses, civil/environmental design and remediation construction. For both private- and public-sector clients, she provides overall technical management related to investigation and remediation of contaminated property. She has prepared feasibility studies, engineering evaluations/cost analysis (EE/CA) reports and remedial action plans (RAPs) to analyze and select alternatives for site remediation. The alternatives evaluated in these reports have included innovative technologies, risk management strategies and traditional remedies. For the past 10 years, Anne's environmental engineering work has focused on remediation of sites for the purposes of redevelopment. These projects have included preparation of detailed cost estimates for the design, construction and monitoring of environmental remediation alternatives. She has also provided expert testimony on projects involving environmental investigation and remediation.

EDUCATION

1988 MS, Civil Engineering (Oceans and Hydraulics), University of California, Berkeley

1984 BS, Civil Engineering, Stanford University

EXPERIENCE

Bay Street, Emeryville

- Worked closely with a private developer, the City of Emeryville Redevelopment Agency and the California DTSC to negotiate closure and redevelopment of a 20-acre former industrial site contaminated with heavy metals, benzene and pesticides /PCBs.
- Closure of the site was contingent upon implementation of deed restrictions and a risk management plan and Anne worked closely with the relevant agencies and the private developer to finalize the risk management plan and obtain site closure.
- Implemented the risk management plan during site construction and development activities. Additional contamination was found during development and Anne worked closely with the developer and DTSC to ensure the additional contamination was remediated. She is currently working with the developer on several cost recovery actions with respect to the additional contamination that was identified during development.

Bay Area Research and Extension Center (BAREC) in Santa Clara

- Assisting the State of California in investigating and remediating a former pesticide research and testing facility in Santa Clara, California. The 17-acre parcel is slated for redevelopment into single- and multi- family homes and a small park. Responsibilities include preparation of a Site Characterization Report and Remedial Action Workplan to obtain site closure from DTSC.

Mission Bay in San Francisco

- Assisted with Catellus's redevelopment of the one of the largest "Brownfields" developments in Northern California.
- Analyzed different remediation scenarios for petroleum hydrocarbons in soil and ground water and the potential impact of these remedies on future development activities.

- In addition, provided technical assistance with respect to risk communication and environmental risk management procedures to be performed during site redevelopment and construction.

San Quentin Prison

- Assisted the State of California in preparation of a study of alternatives for redevelopment of the roughly 200-acre San Quentin Prison. Responsible for identifying the redevelopment issues and costs related to potential releases of chemicals from current/former prison industries, the gas chamber and former waste disposal areas, assuming different land use scenarios.

City of Emeryville, Emeryvillage Project

- Successfully negotiated site closure with the California RWQCB for a former industrial site that was contaminated with petroleum hydrocarbons and VOCs in soil and ground water.
- Integral to negotiating this site closure was communication of potential environmental risks and risk management procedures to be followed during construction and redevelopment.

Comprehensive Engineering Design Packages

- Prepared comprehensive engineering design packages for implementation of selected remediation alternatives. The design packages typically include detailed plans and specifications; a cost estimate and schedule; a Basis of Design Report; Operation and Maintenance Plan; Waste Management Plan; System Monitoring and Sampling Plan; and Health and Safety Plan. She has prepared design packages which have involved the following:
  - Excavation and treatment of contaminated soil (hydrocarbons, PCBs, metals);
  - Ground-water pump and treat systems;
  - Dual phase extraction of ground-water and free-phase fuel hydrocarbons;
  - Vapor extraction for chlorinated VOCs and hydrocarbons; and
  - Landfill capping and containment systems.
- Examples of this experience include her work as project manager for closure of two solid waste landfills. Both projects involved preparation of an EE/CA to evaluate different closure alternatives, preparation of plans and specifications, and preparation of construction and environmental monitoring plans. Anne was instrumental in negotiating with EPA Region IX to accept closure of one of the landfills, which was located in a remote area using locally available materials. Although these materials did not directly meet the requirements of RCRA Subtitle D, Anne was able to demonstrate that they were adequate for protection of potentially-exposed populations and environmental receptors.

Additional Representative Project Examples

- Managed preparation of design plans and specifications for a vapor extraction system to remediate explosive levels of gasoline vapors and methane gas.
- Managed a remediation project for an active gas station and fuel oil recovery facility. Project involved implementation of a pilot-scale ground-water remediation system, site characterization sampling, collection of tidal monitoring data, aquifer-testing and use of ground-watering flow model to determine location and spacing of ground-water extraction wells and trenches to collect and extract floating hydrocarbons. Also evaluated different free phase hydrocarbon recovery system alternatives, developed plans and specifications for implementation of the selected remedial alternative, provided construction oversight during implementation, and provided operation, maintenance and performance monitoring of the final remedial alternative.

- Managed a remediation project for cleanup of diesel and fuel oil from a former power plant. Project involved site characterization sampling, collection of tidal monitoring data, aquifer-testing and use of a ground-watering flow model to determine location and spacing of ground-water extraction wells and trenches to collect and extract floating hydrocarbons. Also evaluated different free phase hydrocarbon recovery system alternatives, developed plans and specifications for implementation of the selected remedial alternative, provided construction oversight during implementation, and provided operation, maintenance and performance monitoring of the final remedial alternative.
- Managed an investigation and remediation of PCE-, TCE- and vinyl chloride-containing vapors at a laundry facility and adjacent elementary school. Project involved: investigating the extent of the vapor plume in soil gas and ambient air; performing a risk assessment and fate and transport modeling to determine whether adjacent school children were at risk; performing fate and transport modeling to determine whether potential marine ecological receptors were potentially impacted; performing a vapor extraction pilot-test to analyze remedial alternatives; evaluating removal action alternatives for cost, effectiveness and implementability; preparing plans and specifications for design of a horizontal and vertical vapor extraction system with a catalytic oxidation treatment system; and construction, operation and maintenance of the selected removal action alternative.
- Assisted with design, implementation and construction oversight of a remediation system for hydrocarbon contaminated soil at a former military base in Alaska. Project involved installation and operation of a soil vapor extraction system.
- Managed the design/analysis of an electrokinetic remediation system for cleanup of a former battery acid pit contaminated with lead. Project involved analysis of site-specific data to determine the applicability of the technology for the site and detailed comparisons of other technologies in terms of cost, effectiveness and implementability.
- Managed the preparation of a Removal Action Site Evaluation Report, Engineering Evaluation/Cost Analysis and engineering design package for closure of a landfill. Project involved collection/analysis of additional site data, evaluation of different landfill capping alternatives performance of a streamlined risk assessment and development of a ground-water monitoring plan. Project also involved assessing engineering risks with future development of the closed landfill. Successfully negotiated with USEPA to obtain an exemption from RCRA Subtitle D landfill closure requirements because it was demonstrated that the selected alternative was effective in minimizing risks associated with the former landfill.
- Managed preparation of an Engineering Evaluation/Cost Analysis and plans and specifications for closure of an oily waste pit. Project included analysis and design of alternatives for remediating oily contaminated soil and design of a protective cap to prevent the migration of gases to the ground surface.
- Provided litigation support in cases involving the responsibility, extent and remediation costs of soil and ground water contamination, consistency of remedial investigations and remedial/removal actions with the NCP, and Superfund cost allocation.
  - Provided litigation support regarding the extent and source of petroleum releases at a site adjacent to San Diego Bay.
  - Provided litigation support regarding the extent and source of contamination and the allocation of remedial costs among various PRPs at a former foundry and wood-stove manufacturing site in Alameda County, California
  - Prepared a cost allocation analysis for litigation involving remediation of hydrocarbons at the San Francisco airport.

- Prepared a cost analysis of various cleanup alternatives for cadmium contaminated ground water at a State NPL site in South Carolina.

Other Environmental Projects

- Assisted with preparation and development of a ground-water monitoring plan for a hazardous waste landfill. Assisted with vadose zone and ground-water modeling to simulate leaks from waste management units (WMUs) and for determination of the location and spacing of ground-water monitoring wells. Designed a vadose zone monitoring system using an additional model to simulate releases of moisture from a newly constructed WMU due to consolidation of the WMUs clay liner. The project also included design and installation of the vadose zone and ground-water monitoring system and additional ground-water modeling studies to determine if a deep (>800 feet) water supply well had a hydraulic effect on the shallow ground-water monitoring well system.
- Assisted in investigation and characterization of solid waste management units and report preparation as part of a RCRA Facility Investigation.
- Prepared a solid waste management permit application for nonhazardous waste disposal units at a waste disposal facility.
- Assisted in chemical characterization of waste disposed in landfill for modeling air emission rates from active hazardous waste landfill. Results of model were basis for air permit application for hazardous waste landfill.
- Performed environmental assessments of several solid waste/sanitary landfills in Michigan, Indiana, Oklahoma for possible conversion to hazardous waste facilities. Project involved assessing engineering feasibility for landfill unit conversion and expansion, review of historical regulatory compliance, and potential for release of contaminants from landfill wastes.
- Performed environmental compliance audits, due diligence reviews and site assessments of more than 50 facilities to identify environmental liabilities associated with federal, state and local regulations (e.g., CERCLA, RCRA, wastewater, Federal Safe Drinking Water Act, air emissions, underground storage tanks, California's Proposition 65, and other hazardous waste regulations, asbestos). The types of facilities included motor and pump repair facilities in Ohio, West Virginia, Florida, Alabama, California, and Mexico; computer and electronics-related manufacturing facilities in California, chemical processing facilities in Michigan and California; wood treatment facilities in Wisconsin; hazardous and nonhazardous waste treatment, storage, and disposal facilities in Indiana, Alabama, Louisiana, Arizona, and California; a garment manufacturing facility in Texas; a newspaper printing facility in California; a metal tubing manufacturer in Canada; pump manufacturing facilities in the United Kingdom, Germany, and Nebraska; and an industrial port facility in California.
- Assisted with design, implementation and construction oversight of a remediation system for hydrocarbon contaminated soil and ground water from an oil recovery facility in Louisiana. Project involved excavation of a former hydrocarbon waste pit and installation of ground water "pump and treat" remediation system. "Pump and treat" remediation system design involved application of a ground water flow model to determine and locate extraction wells.
- Assisted with implementation of the Superfund selected remedial alternative for a former asbestos mine in California. Project involved preparation of preliminary design documents for sediment retention ponds and diversion channels which included review and application of hydrogeologic and sediment transport flow models.
- Developed and prepared a ground-water monitoring plan for cleanup of hydrocarbon contaminated ground water via an extraction trench for an auto manufacturing facility.

- Assisted with preparation of a Remedial Investigation/Feasibility Study (RI/FS) of chlorinated-solvent contamination from an electronics manufacturer. Project responsibilities involved application of a ground-water model to determine contaminant transport between two aquifers.
- Managed preparation of NPDES storm water permit applications for discharges from construction sites, hazardous waste storage facilities, and fuel recovery facilities in California, Hawaii and Louisiana.
- Directed study to determine compliance with California's Proposition No. 65 for numerous food manufacturing plants. Project involved use of USEPA air emissions models to estimate potential air exposure to contaminants and development of a vadose model to estimate concentrations of ground-water contaminants.
- Managed closure and removal of several petroleum-containing USTs in California and New York. Projects involved oversight of tank removals, soil sampling, installation of ground-water monitoring wells, coordination with regulatory agencies and preparation of site investigation and closure reports.
- Managed closure of a microchip and metal plating facility. Project involved coordination and oversight of a subcontractor to remove and decontaminate all equipment, sampling to verify if residual contamination remained, preparation of a closure plan and final closure report, and coordination with regulatory agencies.

Prior to joining ENVIRON, Anne had the following positions:

- Manager of remediation and design engineering, Ogden Environmental and Energy Services Company, Honolulu and San Francisco offices.
  - Managed numerous hazardous waste and petroleum hydrocarbon investigation and remediation projects in California, Alaska, Hawaii and Guam.
  - Provided technical management for environmental engineering and remedial design projects on a $210 million dollar CLEAN Contract with the US Navy in Hawaii.
- Associate Engineer, McGill-Martin-Self, Orinda, California.
  - Designed and managed land development projects. Performed hydraulic and hydrogeologic analysis of floods, landslides, and land development projects.
  - Designed and implemented grading, drainage, and erosion control plans for various engineering projects.
  - Conducted numerous investigations on the causes and remediation measures for seepage in hillsides and various types of engineering excavations.
  - Audited and assessed residential developments for compliance with building codes and other regulations.

CREDENTIALS

Registrations and Certifications

Registered Professional Engineer, State of California, 1988

Registered Professional Engineer, State of Hawaii, 1992

Registered Professional Engineer, State of Alaska, 1997

Registered Professional Engineer, State of Washington, 1997

Professional Affiliations and Activities

Member, American Society of Civil Engineers

PUBLICATIONS & PRESENTATIONS

Comparison of Modeled to Estimated Emission Rates at Active Hazardous Waste Landfill (with D. Suder and C. Schmidt). 1990. Presented at the Air and Waste Management Association, annual conference.

Estimation of Hydraulic Conductivity for a Tidally-Influenced Unconfined Aquifer (with Jeff Cotter). Presented at 1993 Joint CSCE–ASCE National Conference on Environmental Engineering, July, 1993.

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ICF TECHNOLOGY INCORPORATED

8

PRELIMINARY ASSESSMENT

DON

SUBMITTED TO: Paul LaCourreye, U.S. Environmental Protection Agency

PREPARED BY: Belinda Peters, ICF Technology, Incorporated BJP

THROUGH: Melanie Nesterenko, Ecology and Environment, Inc.

DATE: September 13, 1990

SITE: Mike Roberts Color Productions

6707 Bay St. Emeryville

TDD#: F9-9005-045

EPA ID#: CAD009133190

PROGRAM ACCOUNT#: FCA1502PAA

FIT REVIEW/ CONCURRENCE: James M. James 9/19/96

COPY: Fit Master File
Don Plain, California Department of Health Services
Steven Ritche, Regional Water Quality Control Board

1. INTRODUCTION

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the U.S. Environmental Protection Agency (EPA) has tasked ICF Technology, Inc.'s Field Investigation Team (FIT), subcontractor to Ecology and Environment Inc., to conduct a Preliminary Investigation of Mike Roberts Color Productions in Emeryville, CA. This report summarizes FIT's investigative efforts.

2. SITE DESCRIPTION

2.1 Site Location and Owner/Operator History

The Mike Roberts Color Productions (MRCP) site is located at 6707 Bay Street, Emeryville, California (Township 1S, Range 3W, Section 9, Mount Diablo baseline and meridian Latitude 37° 51' 00", Longitude 122° 17' 30") (1). A site location map is presented in Figure 1. From March 1979 until February 1989 the facility operated as a color printing, lithography, and off-set printing business on a 4.6-acre lot (2,3,4,5). The site property is located in an area zoned for commercial and office use; however, areas surrounding the property are also used by industry and residences. The property is bounded to the west and north by the Ashby Avenue off-ramp of northbound Interstate-80, on the east by Bay Street, and on the south by Votainer, a trucking company (6). The MRCP facility consisted of a 14,624 square foot, 2-story business office complex adjoining a 43,300 square foot printing and light manufacturing warehouse (2). There was also an exterior waste drum storage area, and 3 underground storage tanks at the site (2,5,7).

The entire site was paved, with the exception of planted strips in the area of the business office, but only the waste drum storage area was fenced (8). A facility layout map is presented in Figure 2.

According to aerial photographs, until 1947 the site was a part of San Francisco Bay, which was gradually filled in with various landfill material through the 1950s (6). From the 1940s until the late 1950s, a municipal waste dump existed on the land parcel directly south of MRCP. Refuse such as glass, concrete and miscellaneous organics that were found in auger tailings from monitoring wells installed on-site, indicate that the dump may have extended onto the MRCP property at one time (6).

The first known operator at the MRCP site was Dymo Industries who leased the property from the Annuity Board Southern Baptist Convention, the property owner, beginning in March 1963. Dymo Industries processes included the manufacture of label tape punchers and label tape. The property was sold to MRCP in March 1979 when Dymo Industries was purchased by the Esselte Pendaflex Corporation and the operation moved to the east coast (5). MRCP operated at the facility until the company declared bankruptcy and subsequently went out of business in February 1989 (3,4). The property was sold to Nady Systems, the current facility operator, in March 1990 (4). Nady Systems currently manufactures wireless communications systems at the facility, including headphones, microphones, and walkie talkies (36).



Figure 1 Site Location Map

Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA 94608

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SCALE 1:24000

0 1/2 1 MILE

Source: U.S. Department of the Interior, Geological Survey. Oakland West. 7.5 Minute Series (Topographic) 1959. Photorevised 1980.

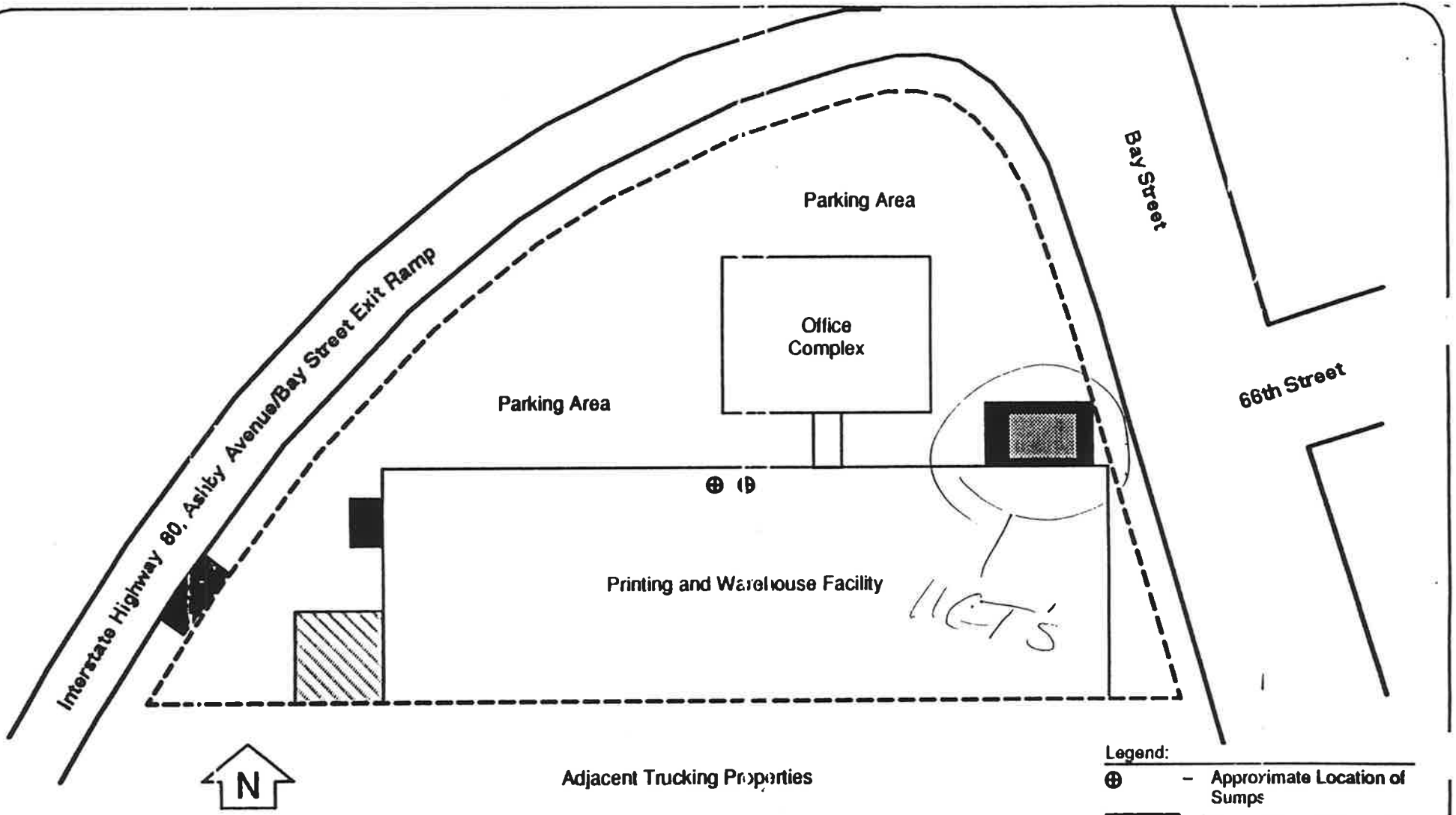


Figure 2 Facility Layout Map

Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA 94608

Source L&W Environmental Services, Inc. Site Plan August 25, 1989; SCS Engineers. Site Plan January 17,1990.

2.2 Facility Process and Waste Management

2.2.1 Historical

In the 1940s until the late 1950s, a municipal waste dump existed on the land parcel south of MRCP, which may have extended onto the MRCP property at one time (6). Dymo Industries, a manufacturer of label tape punchers and label tape, operated at the facility from 1963 until it was sold to MRCP in 1979 (5).

MRCP initially manufactured colored postcards and later expanded into color printing, lithography, and off-set printing operations (3). These operations required the use of printing inks composed of pigments or dyes in a drying oil base, either with or without added resins, dryers, or thinners. The dying compounds probably also contained petroleum oils. In heat set inks, similar to those used at the former facility, the principal dyes used are rhodamines, auramines, and thioflavins (9). No further information on MRCP operations is available. MRCP used a variety of chemicals during their period of operation. A list of some of these chemicals is presented in Appendix C (35).

A fenced area located behind the warehouse was used as a storage area for 55-gallon drums containing wastes generated by MRCP processes. Wastes contained in these drums included waste printing ink, spent solvent cleaning compounds, volatile and semi-volatile organic compounds, and color pigments (10). Raw materials and products were stored in the warehouse (2,6). Waste photographic developing solutions produced in MRCP processes were discharged in the warehouse into 4 drains which led to sumps that drained into the city sewer system (7). There were no regulatory permit requirements for the discharge of photographic wastes into the city sewer system at the time of MRCP operations (38).

No known hazardous waste treatment occurred on site. Waste-containing drums were reportedly stored in the drum storage area from the time of generation until the facility began closure procedures in 1989 (10). There was no off-site disposal of hazardous materials from the facility during its operational history. In March 1990, a total of 89 waste-containing drums were removed from the site (10,11). Several of the drums were transported to The Kiesel Company (EPA ID# MOT300011160) for thermal destruction of the contents. Other drums were transported to Gibson Oil Refinery (EPA ID# CAD980883177), and Bay Area Environmental (EPA ID# CAT080014079).

Three underground storage tanks were discovered by MRCP during closure procedures in February 1989. These tanks were installed by Dymo Industries, the previous site operator, to store virgin methyl isobutyl ketone (MIBK) and methyl ethyl ketone (MEK) prior to its use in their processes (5). The 3 underground storage tanks were also excavated and removed upon facility closure and transported to Erickson, Incorporated (EPA ID# CAD009466392) for disposal. The product remaining in the tanks at the time of excavation was transported to Romic Chemical Corporation (EPA ID#CAD009452657) for disposal (16).

There are no records of any regulatory agency involvement with the site closure or hazardous material disposal procedures (39,40).

2.2.2 Current

MRCP went out of business in February 1989 after filing bankruptcy proceedings (3,4). No MRCP personnel or equipment are currently present at the facility (5,8). All hazardous materials used in the former MRCP printing processes have reportedly been removed from the site (13,14).

Currently, Nady Systems is operating at the facility, apparently occupying only the office building (5,8). Nady Systems manufactures wireless communications systems (36). There is no information available on the hazardous substances Nady Systems may be using on site.

3. APPARENT PROBLEM

The Alameda County Department of Environmental Health (County Health) performed an inspection of MRCP in January 1989, and cited the facility for several hazardous waste management violations (16). MRCP was entered into CERCLIS files in February 1989 following a phone complaint concerning the drums of chemicals stored behind the facility building (37).

In 1989 and 1990 a series of environmental site assessments were initiated because of a proposed property ownership transfer (4). The assessments consisted of on-site soil and groundwater investigations which were performed by 2 environmental consulting firms contracted by MRCP (4,6,7). A total of 8 soil borings and 6 monitoring wells were installed on site in the 2 investigations (see Figure 3)(6). Results from these investigations showed the presence of elevated levels of total petroleum hydrocarbons (TPH) as diesel (up to 5,050 mg/kg), TPH as gasoline (up to 300 mg/kg), oil and grease (up to 45,000 mg/kg), lead (up to 4,300 mg/kg), zinc (up to 266,200 mg/kg), volatile organic compounds (VOCs) (such as benzene up to 50 ug/kg), and slightly elevated levels of polychlorinated biphenyls (PCBs), polynuclear aromatics (PNAs), and other heavy metals in subsurface soils (6,7,15). Shallow groundwater samples from on-site monitoring wells showed the presence of similar contaminants found in the subsurface soils: VOCs (such as benzene up to 12 ug/L), TPH as gasoline and diesel (up to 103 mg/L), oil and grease (41 mg/L), and slightly elevated levels of heavy metals (6). Contaminants detected on site, such as TPH as gasoline and diesel, lead, and benzene, are likely excluded from CERCLA consideration under the Petroleum Exclusion provisions (41).

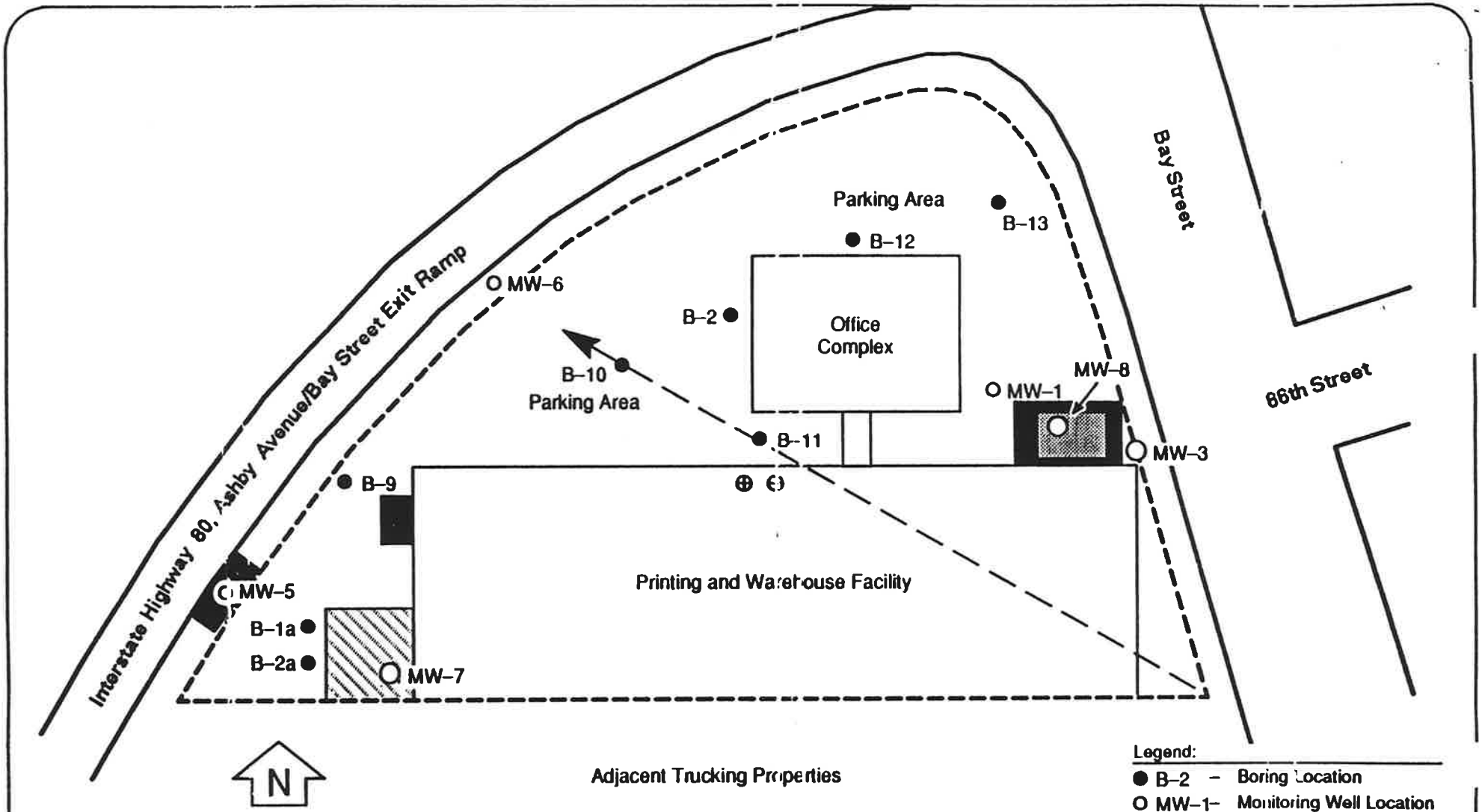


Figure 3 Soil Boring and Monitoring Well Locations

Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA 94608

Source: L&W Environmental Services, Inc. Site Plan August 25, 1989; SCS Engineers. Site Plan January 17,1990.

SOB005-2

Hazardous materials were formerly stored on site in 55-gallon drums in a fenced area behind the warehouse, and in 3 underground storage tanks on the Bay Street property boundary (2,5,7). According to the MRCP contractors, soil and groundwater contamination by VOCs, lead, zinc, and MIBK is likely a result of chemical leakage from these storage areas (6). The contractors for MRCP also suggested that other on-site contaminants such as TPH, PCB, and oil and grease are most likely a result of contaminant migration from the municipal waste dump which was present on the property adjacent to MRCP in the 1940s and 1950s or from other contaminated sites in the area (6,7). One contractor report listed 41 sites in the immediate area of MRCP which have documented hydrocarbon contamination of both soil and groundwater (6).

After the discovery of the contaminants in subsurface soil and underlying groundwater, MRCP contracted for the installation of an on-site soil vapor recovery system and a groundwater remediation system. Two previously existing monitoring wells and 4 newly installed vapor extraction wells located in areas near the former underground storage tanks and waste drum storage area were used in the remediation systems. The extracted vapor is discharged directly to the atmosphere through a vertical exhaust vent and no air stripper towers are used (17). Groundwater is pumped from three on-site extraction wells into an activated carbon treatment unit. The effluent water is discharged to the sanitary sewer system (17). These two systems were activated in July 1990, and according to contractors, require approximately 4 to 6 months to reduce contamination levels to "acceptable limits" (12,17). Permit applications were submitted in February 1990 to the Bay Area Air Quality Management District (BAAQMD) and East Bay Municipal Utilities District (EBMUD) for the operation of the 2 remedial systems (17).

In a related investigation performed by contractors for MRCP in August 1989, asbestos was detected in pipe joint insulation, vinyl asbestos floor tile, and rolled floor covering throughout the business office (18). There is no information that any asbestos removal has occured at the former facility.

4. REGULATORY INVOLVEMENT

There is no file information indicating any federal or state agency involvement with MRCP while the facility was active (39,40). In January 1989, the MRCP facility was inspected by County Health in an attempt to "identify those industries within Alameda County which generate hazardous waste streams" (16). County Health cited MRCP for 3 violations: storage of hazardous waste on-site for longer than 90 days without a license; lack of a secondary containment system in the hazardous waste storage area; and disposal of hazardous waste on site without a permit resulting in the stained pavement in the waste drum storage area (16,19).

Permit applications for the soil vapor recovery and groundwater remediation systems on the site were submitted by MRCP to BAAQMD and EBMUD in February 1990, and a letter

was filed informing the BAAQMD that the facility remediation systems were to be operational by July 1990 (17,20).

MRCP is not listed in the May 3, 1990 RCRA database, or the January 1, 1990 Bond Expenditure Plan (33,42).

5. HRS FACTORS

The Hazard Ranking System (HRS) is a scoring system used to assess the relative threat associated with actual or potential releases of hazardous substances from sites. It is the principal mechanism EPA uses to place sites on the National Priorities List (NLP). EPA has proposed revisions to the HRS, pursuant to the Superfund Amendments and Reauthorization Act of 1986 (SARA). FIT has evaluated the following proposed revised HRS factors relative to this site.

5.1 Waste Type and Quantity

The hazardous materials used and generated by the printing processes of MRCP included printing inks, solvent cleaning compounds, volatile and semi-volatile organic compounds, and color pigments (see Appendix C)(10,35). The highest contaminant concentrations found on the site are summarized in Table 5-1.

TABLE 5-1: RESULTS OF SOIL AND GOUNDWATER SAMPLING

Contaminant	Concentration in Groundwater	Concentration in Soil	Detection Limit	Maximum Concentration Limit
Total Petroleum Hydrocarbons	103 mg/L	5,050 mg/kg	10	NA
Oil and Grease	41 mg/L	45,000 mg/kg	NA	NA
Lead	NA	4,300 mg/kg	12	50
Zinc	NA	266,200 mg/kg	0.4	NA
Benzene	12 µg/L	50 µg/kg	5	5

Source: SCS Engineers. Environmental Assessment, 6707 Bay Street, Emeryville, CA. January 30, 1990.

NA = Information not available.

Note: Total petroleum hydrocarbons, oil and grease, lead and benzene are likely excluded from CERCLA consideration under Petroleum Exclusion provisions.

Wastes generated by MRCP were contained in 55-gallon drums stored in a fenced area located behind the warehouse. The area was paved, but was covered with no secondary containment system (2,7). Materials stored in the drums consisted of printing inks. solvent cleaning compounds, volatile organic compounds, and color pigments. Drums remained in this area from the time of generation until their removal during site closure procedures in 1989. Eighty-nine drums were removed and sampled for pH, oil solvents, phenol, oxidant sulfide, halogenated hydrocarbons, flammability, combustibility, and percent solids at that time (10).

Three underground storage tanks were discovered at the site during closure procedures in February 1989. The capacities of the tanks were 2,000, 1,650, and 3,200 gallons. The tanks were installed by Dymo Industries, the previous site operator, to store MIBK and MEK used in their processes (5). At the time of discovery, the 2,000 gallon tank contained approximately 700 gallons of product, and the 3,200 and 1,650 gallon tanks contained 350 and 220 gallons respectively (7). The tanks were emptied and then removed during the site closure procedures (10,12,34). There is no information on the condition of the tanks upon their discovery.

Runoff from the asphalt-paved site channels into an area in the western corner of the property. Hydrocarbons and high concentrations of VOCs were found in shallow soil samples taken from on-site and off-site areas (7). As a result, 1,750 cubic yards of soil were excavated from these areas (see Figure 3), and stockpiled at the site for approximately 5 months until its disposal in January 1990 (15,16).

In January 1989, the Alameda County Department of Environmental Health inspected the facility. Staining of the pavement in the waste drum storage area was noted, and was considered evidence of spills (16). According to MRCP contractors, MIBK (up to 8 mg/kg in soil), VOCs (such as benzene up to 12 μg/kg in soil and 50 μg/kg in water), lead (up to 4,300 mg/kg in soil), and zinc (up to 266,200 mg/kg in soil) detected in both on-site soils and groundwater are likely to have been the result of leakage from the 3 storage tanks and the waste storage drums. The VOC, lead, and zinc contamination is apparently more widespread than the MIBK contamination, and was evident in several soil boring samples throughout the property (6). The estimated area of contamination by these chemicals is approximately 200,000 square feet (2,6). Contaminants detected on site such as benzene and lead, are likely excluded from CERCLA consideration under the Petroleum Exclusion provisions (42).

Contractors for MRCP concluded that other contaminants such as TPH, PCB, and oil and grease found in on-site soils and groundwater are most likely a result of contaminant migration from the municipal waste dump which was present on the property adjacent to MRCP in the 1940s and 1950s or from other contaminated sites in the area (6,7).

5.2 Groundwater

MRCP is located near San Francisco Bay in an area where the soil composition is generally heterogeneous fill. During the development of the Emeryville area, which was formerly tidal wetlands, fill material was mixed with the naturally occurring Clear Lake Clay. The resulting soil layer is approximately 97 inches deep, and is characterized by poor drainage and very slow permeability (21). There is no specific information on aquifers underlying Emeryville, as groundwater is not used as a source of drinking water in the area (22). The annual net precipitation for Emeryville is 11.77 inches (23,24).

Beneath the asphalt pavement, the on-site soils consist of approximately 5 feet of loose gravel and sand overlying 4 feet of gravely clay and 1 foot of sand (2). Groundwater is first encountered beneath the MRCP site at approximately 10 feet below ground surface (bgs) (10). Underlying the groundwater is another layer of stiff clay (2).

Drinking water for the city of Emeryville is provided by East Bay Municipal Utilities District (EBMUD) which receives its water from the Pardee and Camanche Reservoirs on the Mokelumne River (22,25). These reservoirs are located approximately 70 miles east of Emeryville in the Sierra Nevada foothills (26). Cities, or portions of cities, located within 4 miles of the site include Richmond, El Cerrito, Albany, Kensington, Oakland, and Berkeley (1). Drinking water for all these cities is supplied by EBMUD via distant surface water sources (26). Groundwater in the Emeryville area is used for industrial purposes only (22). Three industrial wells are located in the vicinity of the site. The closest industrial well is located at the intersection of Hollis and 63rd Streets, approximately 0.33 mile south of the site (1,22).

Sampling of on-site subsurface soil and groundwater was conducted by contractors for MRCP in 1989 and 1990 (see Table 5-1).

There were no background samples taken for either soil or groundwater analyses. Current on-site soil contamination is apparently restricted to subsurface soils and groundwater contained beneath asphalt pavement (15,16).

An observed release to groundwater can likely be documented due to the presence of MIBK in soil and groundwater samples taken from a boring adjacent to the former MIBK and MEK storage tanks. MIBK was not present in soil and groundwater samples taken from upgradient borings on site (6).

5.3 Surface Water

The Berkeley Aquatic Park is located less than 0.25 mile downslope and north of MRCP, and San Francisco Bay is located approximately 0.33 mile downslope and west of the site. The surface runoff from MCRP is to the northwest (1). Berkeley Aquatic Park is comprised

of three small lakes surrounded by a grassy park and picnic area. Information on the specific uses of the park were unavailable, however among its uses appear to be picnicing and waterskiing (1,8). San Francisco Bay is used for commercial and sport fishing, boating, commercial shipping, navigation, and swimming (27). The annual commercial fish catch of Pacific herring in the San Francisco Bay is approximately 10,000 tons (28). The Emeryville Marina is located on San Francisco Bay approximately 0.33 mile west of the site (1). The marina has a fishing pier, a boat launch ramp, and is a habitat for water birds (1,29). Four state or federally designated endangered species and 1 state designated threatened species, the California clapper rail (Rallus longirostris obsoletus), the California black rail (Laterallus jamaicensis coturniculus), the California least tern (Sterna antillarum browni), the Salt marsh harvest mouse (Reithrodonromys raviventris), and the Santa Cruz tar plant (Holocarpha macradenia) inhabit areas such as those found at the aquatic park and around the bay (29).

Emeryville is located in a 100-year floodplain (30). The 2-year, 24-hour precipitation in the area is 3.0 inches (31).

The likelihood that a past release from the site to the nearby surface water has occurred appears to be high because there is evidence of past chemical leakage or spills and no secondary containment system was present in the drummed waste storage area. In addition, during closure activities excavated contaminated soil was stored uncovered on the site for approximately 5 months before disposal (2,6,15,16). The potential for a future release to surface water appears to be low because all hazardous waste-containing drums and excavated soil have been removed from the site and the entire site is asphalt-paved (10,11,12,16).

5.4 Air

The MRCP facility is located in a commercial, industrial and residential area. Approximately 50 employees of Nady Systems currently occupy the office building on the property (5,6). Approximately 262,000 residents live within 4 miles of the site (see Table 5-2)(32).

Four state or federally designated endangered species and 1 state designated threatened species, the California clapper rail (Rallus longirostris obsoletus), the California black rail (Laterallus jamaicensis coturniculus), the California least tern (Sterna antillarum browni), the Salt marsh harvest mouse (Reithrodonromys raviventris), and the Santa Cruz tar plant (Holocarpha macradenia) inhabit areas within 4 miles of MRCP (29).

The likelihood that a past release from the site to the air has occured exists because there is evidence of leakage or spills from waste-containing drums, and excavated contaminated soil was stored uncovered at the site for approximately 5 months before disposal. There was also evidence of contaminated surface soils at the site (2,6,15,16). The present potential for

a release via the air route appears to be low because all hazardous waste containing drums and excavated soil have been reportedly removed from the site (10,11,12).

Table 5-2	
Location	**Population**
On-Site	50
0 to 0.25 miles	1,909
0.25 to 0.5 miles	3,118
0.5 to 1 mile	24,371
1 to 2 miles	67,652
2 to 3 miles	85,164
3 to 4 miles	79,802

Source: California 1980 Census of Population and Housing Summary, Tape File 1A; Peters, Belinda, ICF Technology, Inc., and Gates, Robert P., Law Offices of Erskine and Tulley. Telephone conversation. August 6, 1990.

5.5 On-Site

Approximately 30,000 people reside within 1 mile of the MRCP site (see Table 5-1) (32). The former facility is located in an area of commercial, light industrial, and residential uses (6). Approximately 50 employees of Nady Systems currently occupy the office building at the site (5,6). The property is completely paved with the exception of planter strips by the office building. The facility is unfenced with the exception of the former waste drum storage area (8).

The potential for an on-site exposure appears to be low at this time because all current documented contamination occurs in soil and groundwater beneath asphalt pavement, and all hazardous wastes have reportedly been removed from the site (6,8).

6. SUMMARY OF FIT INVESTIGATIVE EFFORTS

On June 19, 1990 at approximately 10:15 AM, FIT members Belinda Peters and Adam Ng, of ICF Technology, Inc., conducted a site drive-by of the Mike Roberts Color Productions site in Emeryville, California. Observations recorded during the site drive-by are presented in the Site Drive-by Observations Report (8). No on-site inspection or interview was conducted because the facility has been vacated by MRCP. Photographs were taken during the drive-by and are presented in Appendix C.

7. EMERGENCY RESPONSE CONSIDERATIONS

The MRCP facility ceased operations in March 1990 and MRCP has since vacated the premises. During facility vacating activities, MRCP disposed of all the waste-containing drums and the 3 underground storage tanks present on site (4,6,8). Current on-site contamination appears to be restricted to the subsurface and is completely covered by asphalt pavement (6,8). Remedial actions currently performed at the site include soil vapor recovery and groundwater remediation (17). Emergency removal considerations do not appear to be warranted at this time.

8. SUMMARY OF HRS CONSIDERATIONS

Mike Roberts Color Productions (MRCP), formerly located at 6707 Bay Street, Emeryville, California, operated a color printing, lithography, and off-set printing business at the site from March 1979 until February 1989. Hazardous wastes generated by MRCP included waste printing ink, solvent cleaning wastes, waste volatile and semi-volatile organic chemicals, color pigments, and waste photographic developing solutions. All generated hazardous wastes were stored in 55-gallon drums in a fenced area on-site, with the exception of the photographic developing solutions which were disposed of directly to drains into the city sanitary sewer. Dymo Industries, a previous operator of the property, reportedly used methyl isobutyl ketone (MIBK) and methyl ethyl ketone (MEK) in a label tape production process. The MIBK and MEK were stored in 3 underground storage tanks on site. When MRCP vacated the facility, all drums containing hazardous waste were removed from the site and the underground tanks were excavated and removed. Various samples collected and analyzed at the time the facility was being vacated showed the presence of elevated levels of total petroleum hydrocarbons (TPH, as gasoline and diesel), oil and grease, MIBK, volatile organic compounds (such as benzene), lead, zinc, polychlorinated biphenyls, trace amounts of polynuclear aromatics hydrocarbons, and heavy metals either in the on-site soil or in the underlying groundwater. According to the MRCP contractors, soil and groundwater contamination by VOCs, lead, zinc, and MIBK is likely a result of chemical leakage from the underground storage tanks and drums. The contractors for MRCP also suggested that other on-site contaminants such as TPH, PCB, and oil and grease are most likely a result of contaminant migration from the municipal waste dump which was present

on the property adjacent to MRCP in the 1940s and 1950s or from other contaminated sites in the area. A soil vapor recovery system and a groundwater remediation system have been installed at the site in an attempt to alleviate the contamination.

Groundwater beneath the MRCP site is first encountered at approximately 10 feet below ground surface. The regional groundwater is used for industrial purposes only. Drinking water for the city of Emeryville is imported from the distant Pardee and Camanche Reservoirs which are fed by the Mokelumne River. An observed release to groundwater can likely be documented because MIBK has been found in on-site soils and groundwater samples taken from a boring immediately adjacent to the former undeground storage tanks, MIBK was not detected in the soil or groundwater samples collected elsewhere on the site.

Berkeley Aquatic Park and San Francisco Bay are located 0.25 and 0.33 miles downslope of MRCP, respectively. Berkeley Aquatic Park is used for picnicing and waterskiing, and San Francisco Bay is heavily used for commercial and sport fishing, swimming, boating, commercial shipping, and navigation. The likelihood that a past release from the site to the nearby surface water has occurred appears to be high because there is evidence of past chemical leakage or spills and no secondary containment system was present in the drummed waste storage area. In addition, during facility vacating activities excavated contaminated soil was allowed to be stored uncovered on the site for approximately 5 months before disposal. The potential for a future release to surface water appears to be low because all hazardous waste-containing drums and excavated soil have been removed from the site and the entire site is asphalt paved.

Approximately 262,000 residents live within 4 miles of the former MRCP site, and 30,000 residents live within 1 mile of the site. The present potential for an air or on-site exposure appears to be low because all documented on-site contamination is subsurface and completely covered with asphalt pavement.

The significant HRS factors associated with the site are:

- high likelihood of documenting an observed release of hazardous substances from the site to surface water; and
- extensive near-by surface water uses.

9. EPA RECOMMENDATION

	Initial	Date
No Further Remedial Action Planned		
~~Medium~~ Low Priority SSI	PL	9.28.90
High Priority SSI		

Notes:

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APPENDIX A

Contact Logs

and

Contact Reports

PA/SI Contact Log

Facility Name: Mike Roberts Color Productions
Facility ID: CAD009133190

Name	Affiliation	Phone #	Date	Information
* Bob Tasto	U. S. Department of Fish and Game	(415) 688-6360	5/30/90	See Contact Report.
Doris Cruz	California Department of Health Services	(415) 540-3800	6/7/90	No File Information.
File Coordinator	California Regional Water Quality Control Board	(415) 464-1255	6/7/90	No File Information.
Kate Caskey	East Bay Municipal Utilities District	(415) 451-3444	6/11/90	See Contact Report.
Juan Arreguin	Emeryville, Public Works Department	(415) 654-6161	6/12/90	See Contact Report.
John Cummings	SCS Engineers	(415) 829-0661	6/20/90	See Contact Report.
Robert P. Gates	Erskine and Tulley	(415) 392-5431	6/20/90	See Contact Report.
Robert P. Gates	Erskine and Tulley	(415) 392-5431	8/6/90	See Contact Report.
"receptionist"	Vady Systems	(415) 652-2411	8/22/90	Vady Systems manufactures wireless communications systems such as microphones, walkie-talkies and headphones.
Jo Chapman	East Bay Municipal Utilities District, Wastewater Treatment Divisions	(415) 465-3700 ext. 205	8/23/90	At this time there are no regulatory permits necessary for sewer discharge from photographic processes. Only the quantities of discharged silver are monitored.

* Past Contact Report Used to Evaluate Current Site.

SITE DRIVE-BY OBSERVATIONS REPORT

ICF Technology, Inc.
Field Investigation Team (FIT)
160 Spear Street, Suite 1380
San Francisco, CA 94105
(415) 957-0110

OBSERVATIONS MADE BY: Belinda Peters and Adam Ng, ICF Technology, Inc.

DATE: June 19, 1990

SITE NAME: Mike Roberts Color Productions

EPA ID#: CAD009133190

The following observations were made during the site drive-by:

The entire site is paved with the exception of planter boxes near the office building. The site is completely unfenced with the exception an area behind the warehouse which apparently was used for drum storage. The facility appears to be vacant, and moving-out procedures are occurring. There are some workers in one of the buildings. There appear to be some monitoring wells at the front of the property.

Berkeley Aquatic Park is located adjacent to the facility. There is a grassy picnic area near one of the lakes and the larger lake has a waterski ramp.

CONTACT REPORT

Agency/Affiliation: California Department of Fish and Game

Department/Region:

Address/City: 411 Burgess Drive, Menlo Park

County/State/Zip: San Mateo, California 94025

CONTACT	TITLE	PHONE
Bob Tasto		(415) 688-6360

Person Making Contact: Kate Dragolovich, Ecology and Environment, Inc.

Date: May 30, 1990

Subject: Fisheries in the Southern Portion of the San Francisco Bay

Site Name: Mike Roberts Color Productions (from Redwood Shore Landfill, CAD9824102343)

EPA ID#: CAD009133190

Commercial fishing in San Francisco bay is limited to Pacific Herring. The main fisheries for Pacific Herring are where the thickest spawning areas are. These areas are in the central and north bay. There is sporadic spawning in the south bay. The annual fishery quota for Pacific Herring for the entire San Francisco Bay is 10,000 tons.

CONTACT REPORT

Agency/Affiliation: East Bay Municipal Utilities District

Department/Region:

Address/City: P. O. Box 24055, Oakland

County/State/Zip: Alameda, CA 94623

CONTACT	TITLE	PHONE
Kate Caskey		(415) 451-3444

ICF Person Making Contact: Belinda Peters Date: June 11, 1990

Subject: Water Supply for East Bay Municipal Utilities District

Site Name: Mike Roberts Color Productions EPA ID#: CAD009133190

The city of Emeryville's drinking water is supplied by East Bay Municipal Utilities District (EBMUD). EBMUD serves 1.1 million customers, and receives its water from the Camanche and Mokelumne Reservoirs.

CONTACT REPORT

Agency/Affiliation: Emeryville Public Works Department

Department/Region: Engineering Department

Address/City: 2200 Powell Street, Emeryville

County/State/Zip: Alameda, CA 94608

CONTACT	TITLE	PHONE
Juan Arreguin	Engineer	(415) 654-6161

ICF Person Making Contact: Belinda Peters Date: June 12, 1990

Subject: Drinking Water and Well Information for the City of Emeryville

Site Name: Mike Roberts Color Productions EPA ID#: CAD009133190

The city of Emeryville receives all of its drinking water from East Bay Municipal Utilities District. Local groundwater is not used as a drinking water supply. There are 3 industrial wells in the city, located at Park & Holden Streets, San Pablo and Park streets and at Hollis and 63rd streets. The depth to the groundwater in Emeryville is 1 foot below ground surface. He has no information on the aquifers in the area or on the floodplains.

CONTACT REPORT

Agency/Affiliation: SCS Engineers

Department/Region:

Address/City: 6761 Sierra Court, Suite D, Dublin

County/State/Zip: Contra Costa, CA 94568

CONTACT	TITLE	PHONE
John Cummings	Engineer	(415) 829-0661

ICF Person Making Contact: Belinda Peters Date: June 20, 1990

Subject: Background Information on Mike Roberts Color Productions

Site Name: Mike Roberts Color Productions EPA ID#: CAD009133190

The facility closed down approximately two years ago, in early 1989, after going bankrupt when one of the principals died. At one time they made color postcards. More recently they did color printing, lithography, and off-set printing. They used solvents, dyes and paints which they stored on site. He has their certificate of disposal. There has been sampling done and there is some remediation going on. He needs to contact the lawyer for the site, who is his actual client, to find out how he can get me the information needed and best deal with the situation.

CONTACT REPORT

Agency/Affiliation: Erskine and Tulley

Department/Region: 580 Market Street, 6th Floor, San Francisco

Address/City:

County/State/Zip: San Francisco, California 94104

CONTACT	TITLE	PHONE
Robert P. Gates	Attorney	(415) 392-5431

ICF Person Making Contact: Belinda Peters Date: June 20, 1990

Subject: General Information on Mike Roberts Color Productions

Site Name: Mike Roberts Color Productions EPA ID#: CAD009133190

Mike Roberts Color Productions (MRCP) went bankrupt and subsequently went out of business in February of 1989. The property was owned by a group of individuals who used to work for MRCP; their company is called MRCP Realty. MRCP Realty sold the property on March 15, 1990 to Nady Systems.

In May of 1989 a notice of violation was filed by the county of Alameda for storage of barrels containing inks and solvents behind the building. A site assessment was performed and the materials were disposed of.

Mr. Gates began his association with MRCP when they were undergoing negotiations for a sale to the Martin Group which already owns a great deal of land in Emeryville. Before the sale, some soil testing was conducted and contamination was discovered. There was a dispute over whether the contamination was from MRCP or whether it was "historical background" or contamination from previous owners. MRCP claimed it was historical background contamination, but the sale fell through.

During the site assessment underground tanks that were previously not known about were discovered on the front of the property. There have been water and vapor extraction systems have been installed at the site. There was also contamination found on the back of the site which MRCP claims is coming from another site. L & W Environmental Services was working on the site during this time; however, the job is currently being handled by SCS Engineers.

CONTACT REPORT

Agency/Affiliation: Erskine and Tulley

Department/Region:

Address/City: 580 Market Street, 6th Floor, San Francisco

County/State/Zip: San Francisco, CA 94104

CONTACT	TITLE	PHONE
Robert P. Gates	Attorney	(415) 392-5431

ICF Person Making Contact: Belinda Peters Date: August 6, 1990

Subject: Further Information on Mike Roberts Color Productions

Site Name: Mike Roberts Color Productions EPA ID#: CAD009133190

Dymo Industries was MRCP's predecessor at the site. They had a sale-lease from the Annuity Board Southern Baptist Convention starting in March 1963 and it was sold to MRCP in March 1979. Dymo Industries made label tape gadgets and label tape. Dymo Industries is now Esselte Pendaflex Corporation located on the east coast. The Methyl Isobutyl Ketone storage tanks on-site were from Dymo Industries and MRCP was unaware of their existence until they started vacating the site. MIBK was used in making the labeling tape. MRCP did not use MIBK. For more information on this, I should contact John O'Connor, general counsel for Esselte Pendaflex Corporation at (516) 741-3200, 71 Clinton Road, Garden City, New York 11530.

Nady Systems now occupies the office and warehouse of MRCP; there are approximately 50 people at the site.

APPENDIX B

Photographic Documentation
of the former Mike Roberts Color Productions facility
in Emeryville, California
Photos were taken by Belinda Peters and Adam Ng, ICF Technology, Inc.
on June 19, 1990 during a site drive-by.

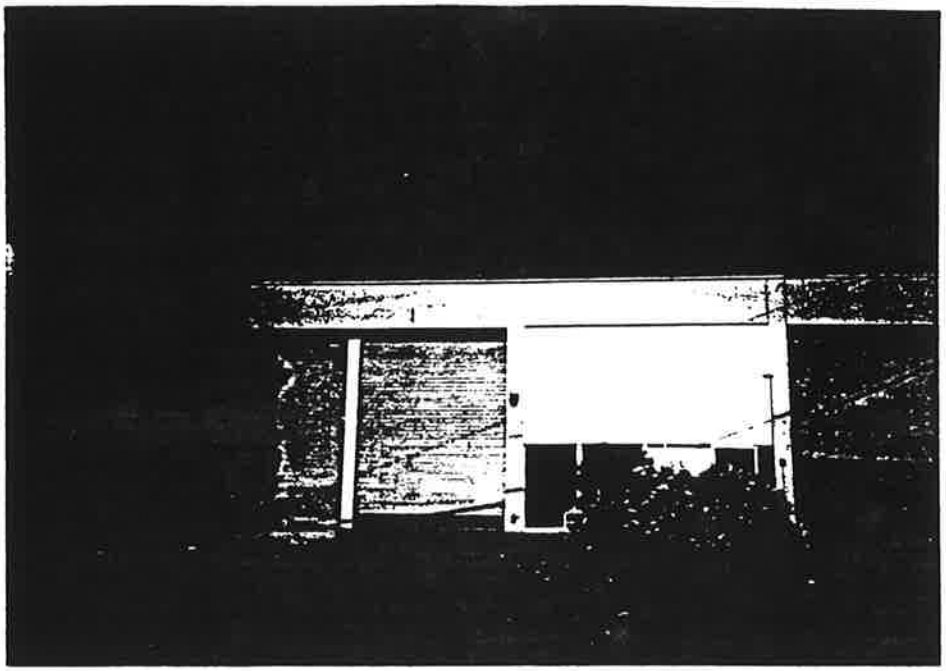


Photo 1: View of the former Mike Roberts Color Productions warehouse from Bay Street (facing north).

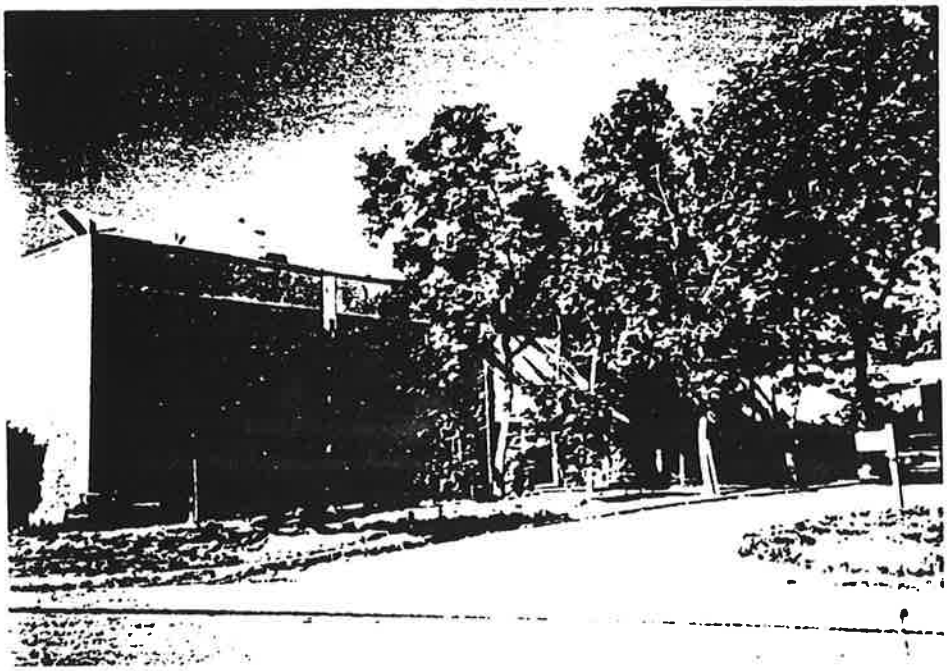


Photo 2: View of the former Mike Roberts Color Productions facility from east side sharing groundwater extraction and soil vapor removal wells.

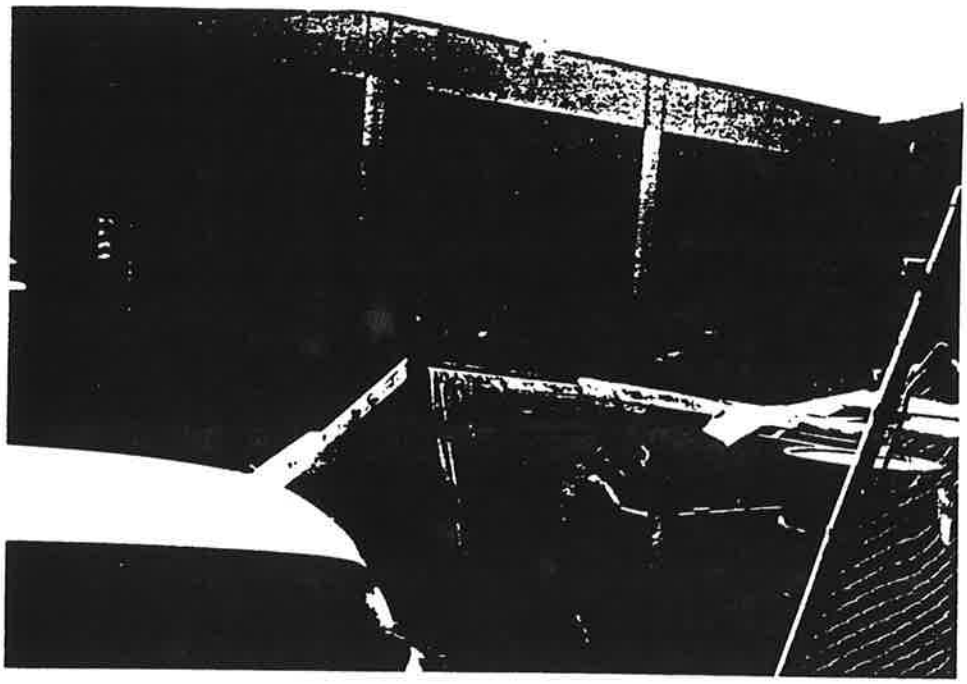


Photo 3: Former hazardous waste drum storage area at the former Mike Roberts Color Productions facility in the process of closure (facing east).

APPENDIX C

Chemicals used at Mike Roberts Color Productions
and their suppliers.

	CHEMICALS USED AT MIKE ROBERTS COLOR PRODUCTIONS AND THEIR SUPPLIERS									
NO.	HURST GRAPHICS	KODAK	3M	ANCHOR/LITH-KEMKO	ROBERTS & PORTER	DUPONT	RYCOLINE	QUALITY C.L. PRODUCTS	VALSPAR	PIERCE & STEVENS
1.	Vacuum Pump Lube SAE 10	Kodak SH Deactivator	Negative Color Key-Trans., Key Mach., Dev.	100% Pure Gum Arabic 14 BE	Redi-Mist A100	Com - Pos Dev.	Aliphatic Solvent	Aliphatic & Oxygenated Solvent Blend	U.V. Curable Coating	U.V. Curable Coating
2.		Ultratec Tray Developer & Replenisher			Kleer Glass Cleaner	Com - Pos Fixer	Silicone Concentrate			
3.		Kodalith MPII Blender Concentrate #1				Comm-Blend Replenisher R 1	Anti-Foam			
4.		Kodalith MPII Blender Concentrate #2				Comm-Blend Replenisher R-2	Anti-Static Concentrate			
5.		Polymatic LP Deletion Fluid				Comm-Blend Replenisher R-3	Two-step Wash			
6.		Polymatic Neg. Deletion Fluid Kit Part A				Cromalin Metallic-Yelo Toners	Ultra Plus Fountain Solution			
7.		Polymatic Negative Deletion Fluid Kit Part B				Cromalin Metallic-Silver Toner				
8.		Polymatic Desensitizer (machine)				Cromalin Hi-Visibility Toners				

	CHEMICALS USED AT MIKE ROBERTS COLOR PRODUCTIONS AND THEIR SUPPLIERS									
9.		Polymatic Neg. Dev. (machine)				Cromalin Process and Hi-Strength Toners				
10.		Polymatic Hot Spot Remover								
11.		Polymatic Tushe								
12.		Ultratec Fixer and Replenisher								
13.		Polymatic Plate Finisher								
14.		Polymatic Plate Preservor								
NO.	SUN CHEMICAL CORP.	CORAC INK / CHEMICAL CO.	THOMAS PRINTING INKS, INC.	SIRION PRINTING INK CO.	GANS INKS SUPPLY CO., INC.	GOLD STAR CHEMICAL (GANS)	VARN PRODUCTS CO., INC.	UNOCAL CHEMICAL	WILLARD PRODUCTS	SINCLAIR AND VALENTINE
1.	U.V. Curable Coating	Heatset Inks	P.M.S. Inks 871-877	Sirion Varnishes	Marlite	T.S.W. #1	Wash V-263	Isopropyl 99	Isopropyl 99	O/S Ink Sinvalith I Karma Matte Tan
2.		White Oil	Overprint Varnish	Sirion Combo Drier	Oxidizing O/S Inks	T.S.W. #2	Varn Type Wash			
3.			Low Tack Reducer	Sheet-fed Inks	Fountain Drier Stimulator	Combo Fountain Solution				

	CHEMICALS USED AT MIKE ROLERTS COLOR PRODUCTIONS AND THEIR SUPPLIERS									
NO.	SUN CHEMICAL CORP.	CORAC INK/ CHEMICAL CO.	THOMAS PRINTING INKS, INC.	SIRION PRINTING INK CO.	GANS INKS SUPPLY CO., INC.	GOLD STAR CHEMICAL (GANS)	VARN PRODUCTS CO., INC.	UNOCAL CHEMICAL	WILLARD PRODUCTS	SINCLAIR AND VALENTINE
4.				Turbo Etch	Coronet Etch Concentrate	Isogen IV				
5.				O/S Printing Inks U.V. Curing	Anti-Skin Spray	T Sol				
6.				Roller Cleaning Jelly						
7.				Quick Print Adhesive						
	ZEP MANUFACT URING									
1.	Parafinic Solvent Blend									

Source: Mike Roberts Color Productions, Interoffice Memorandum: List of Suppliers and Products Requiring Material Safety Data Sheets. Undated.

LW Environmental Services, Inc.
2111 Jennings Street, San Francisco, CA 94124-3224, Phone (415) 822-4555 FAX (415) 822-5290

July 10, 1989 L & W Project No. 9077.001

Mr. Robert P. Gates
Erskine & Tulley
580 Market Street
San Francisco, California 94104

Subject: Environmental Site Assessment and Subsurface Evaluation - Mike Roberts Color Productions property, 6707 Bay Street, Emeryville, California.

Mr. Gates:

In accordance with your request, we have completed an environmental site assessment and subsurface evaluation for the subject site located at 6707 Bay Street in Emeryville, California. Our purpose was to evaluate the historical background and subsurface conditions of the site for environmental and public health concerns.

Scope

Our scope of services for the subject site consisted of performing the following tasks:

* Perform an initial walk-through of the site to evaluate site parameters and collect representative samples of suspect materials for qualitative environmental analysis.

* Review available regulatory agency records to establish site history and usage and assess reported environmental violations.

* A review of utility company drawings and plans regarding pipeline easements and underground structures that may adversely affect property.

* Review topographic and geologic maps and reports.

* Provide a physical description of the site, including:
  - Unusual soil coloration or odors
  - Fill or other imported materials
  - Physical irregularities at the surface
  - Chemical storage tanks
  - Electrical transformers

* Perform a cursory inspection of adjacent properties, including:
  - Evaluation of present land-use conditions adversely affecting the subject property
  - Evaluate onsite chemical storage and handling

* Perform preliminary subsurface evaluation consisting of four soil borings into ground water.

* Collect representative soil and water samples. Soil samples to be described in accordance with the Unified Soil Classification System (USCS).

* Analyze representative printing materials, construction materials and soil and ground water samples to evaluate for the presence of contaminants. Analysis includes that for CAM metals (Title 22, reference SW 846, third edition), pesticides, polychlorinated biphenyls (PCB's) (EPA method 8080) and total petroleum hydrocarbons (EPA method 8015).

* Prepare a report presenting the findings from each category mentioned above and our opinion regarding the presence of contamination by hazardous substances currently on the site.

Historical Review

A search of records and documents from the City of Emeryville Fire Department - Office of Fire Prevention, the California North Coast Region of the Department of Health Services (DOHS) Abandoned Site Program Information System, and the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) indicated there are several permits issued to adjacent property owners for the use and/or storage of hazardous substances. We also conducted a review of the Expenditure Plan for the Hazardous Substance Cleanup Bond Act of 1984 (State of California Health and Welfare Agency, Toxic Substances Control Division, Department of Health Services) and the Hazardous Wastes & Substances List (pursuant to AB 3750 from the State Water Resource Control Board, California Waste Management Board, and the Department of Health Services as of August 1988).

According to information provided by the DOHS and SFBRWQCB, there were violations reported to these agencies for the following sites:

Address	Comment
4030 Hollis Street	Failed underground storage tank leak test. Investigation results not reported.
65th Street & Christie Avenue	Site was a municipal dump between 1940 and 1960. Extensive subsurface and ground water contamination reported.

Site Conditions

The subject site is a 4.6 acre, roughly triangular corner lot with a two story, business administrative office complex adjoining a printing and light manufacturing warehouse facility. Parking is provided along the north, east, and west perimeter of the office building and north and west of the warehouse. A fenced, drum storage area, was located at the rear of the warehouse facility. The site is located on the west side of Bay Street, south and east of the Ashby Avenue exit ramp off of Interstate Highway 80. The southern property line has a six foot easement between the warehouse and neighboring Leopard Trading Co. in Emeryville, California.

The buildings are concrete and steel tilt-up structures, built during the late 1960's. The office structure occupies approximately 14,624 square feet and the warehouse, approximately 43,200 square feet. A printing operation is presently utalizing approximately 15 percent of the warehouse space. The office complex is about 10 percent occupied.

Preliminary Surface Evaluation

On March 13, 1989, L & W Environmental Services representatives performed a preliminary walk-through at the subject site. Our evaluation consisted of a site survey and observing, documenting, and sampling selective materials, where accessible.

evaluation consisted of a site survey and observing, documenting, and sampling selective materials, where accessible.

Sample collection during the preliminary evaluation concentrated on 89 drums of suspected hazardous waste, located at the rear of the warehouse facility. The sampled materials were collected in laboratory-cleaned, 500-milliliter glass sample vials with teflon lined lids. Samples were then labeled and placed in ice storage for transportation. A Chain of Custody Record was initiated by L & W Environmental Services personnel in the field and accompanied the samples to a State-certified laboratory for analytical testing. This chain-of-custody protocol was followed throughout the field and laboratory procedures. The Chain of Custody Records for samples tested are included in the Appendix to this report. Please refer to our **Status Report of Activities Relating to the Removal and Disposal of Hazardous Wastes** for the subject site, dated June 27, 1989, for a detailed account of the drum sampling and disposal activities.

No other suspect hazardous materials were observed during our walk-through of the site.

Subsurface Evaluation

On April 26 and June 8, 1989, representatives of L & W Environmental Services performed a subsurface investigation of the subject site. This consisted of mapping surface features and logging and sampling three soil borings and one monitoring well. The borings (B-1a, B-2a, and B-2) were drilled to depths between 11 and 21.5 feet below grade. The monitoring well (B-1/MW-1) was drilled to 31.5 feet. The soil borings were located west and northwest of the drum storage area and northwest of the office building. The monitoring well was drilled near the southeast corner of the office structure in the parking area (Appendix).

The borings located by the drum storage area were drilled with an eight-inch-diameter, continuous-flight, hollow-stem auger using a CME-45 drill rig operated by K & L Drilling, of Alameda, California. Boring B-2 was drilled with an eight-inch-diameter, continuous-flight, hollow-stem auger using a CME-55 drill rig operated by West Hazmat Drilling Corp, out of Rancho Cordova, California. Monitoring well MW-1 was drilled with a twelve-inch-diameter, continuous-flight, hollow-stem auger using a CME-55 drill rig operated by West Hazmat Drilling Corp, of Rancho Cordova, California. The augers were steamed cleaned before use to minimize the possibility of cross-contamination.

Subsurface Conditions

Samples were described using the Unified Soil Classification System. Subsurface materials observed in the drill cuttings and sampler were composed of brown and gray-brown, damp to moist, unconsolidated, gravel and sand underlain by gray to blue-gray, clay interbedded with light to medium-gray, loose, fine and medium grained sand lenses. Borings B-1 and B-2 ended in light-brown, stiff clay. Detailed descriptions of earth materials encountered in the soil boring are presented in the boring logs. Upon completion, borings B-1a and B-2a were backfilled with drill cuttings. Boring B-1 was completed into a 4 inch well and Boring B-2 was backfilled with portland cement.

Soil samples were collected from the borings at five foot intervals beginning at a depth of 5 feet below grade. The undisturbed samples were collected from the borings utilizing a 2.5 inch diameter, California-modified split-spoon sampler. The sampler, containing 2.0 inch diameter brass sleeves, was driven 18 inches with a standard 140-pound hammer, repeatedly dropped 30 inches. The number of blows to drive the sampler each successive 6 inches was recorded to evaluate relative consistency of the soil. The driven samples were immediately sealed in their brass sleeves with aluminum foil, plastic caps and airtight tape. They were then labeled and placed in ice storage for transportation. A Chain of Custody Record was initiated by L & W Environmental Services personnel in the field and accompanied the samples to a State-certified laboratory for analytical testing. The Chain of Custody Record for boring samples tested is included in the Appendix to this report.

Soil samples were analyzed for hydrocarbon vapor using an organic vapor meter (OVM). Field instruments, such as the OVM, are used to evaluate relative concentrations of vapor but cannot be used to give absolute levels of hydrocarbon contamination. The OVM measurements for soil samples collected from the borings indicated ambient conditions.

Monitoring Well Construction

On July 5, 1989, The ground-water monitoring well MW-1 was installed in boring B-1. The well was constructed with schedule 40, 4-inch-diameter, polyvinyl chloride (PVC) casing. The upper 5 feet of the well casing is blank. The preceding 25 feet consist of machine-perforated PVC with 0.020-inch-wide slots. The remaining 5 feet of casing, from the top of the screened portion to the ground surface, is blank. All casing joints are flush-

threaded. Glues, chemical cements, or solvents were not used to join the casing sections. The top of the casing is covered with an expandable, locking cap. The bottom has a threaded end plug.

The annular space of the well was backfilled with No. 3 grade sand from the total depth of each well to approximately 2 to 3 feet above the screened casing. A bentonite plug, approximately 1-foot-thick, was placed above the sand as a seal against cement entering the sand pack. The remaining annulus was backfilled with a portland cement and bentonite mixture to grade. Graphic representations of well construction is shown in the right column of the Log of Boring plates.

The well is protected with a cast-iron and steel wellhead cover installed approximately 1 inch above the surrounding grade and set in place with concrete overlain by a 3 inch-thick asphalt cold patch. The wellhead cover has a locking, watertight, expanding seal to protect the well against surface water infiltration and reduces the possibility of vandalism or accidental disturbance of the well.

Water Sampling

On July 6, 1989, water samples were collected from the monitoring well for subjective analysis. A sample was collected by lowering a Teflon bailer approximately half its length through the air-water interface. The sample was examined and no floating product, sheen, or emulsion was observed. The monitoring well was purged of approximately four well volumes of water before water samples were collected for laboratory analysis. Following the purge period, and after well recovery to a static water level, fluid samples were collected using a laboratory-cleaned Teflon bailer. The bailer was lowered approximately 2 feet into the fluid to retrieve a sample. The fluid samples were stored in laboratory-cleaned, 40-milliliter and one liter glass vials. Each vial was rinsed with fluid from the bailer, emptied, then slowly filled again with fluid. Each sample was then immediately sealed with a Teflon-lined cap, labeled, and placed on ice for transport to a state-certified laboratory. Chain-of-custody protocol, as described earlier, was followed throughout the field and laboratory procedures. Samples were taken to Precision Analytical Laboratory in Richmond, California and IT Analytical Laboratory in San Jose, California, for testing. Precision Analytical and IT Analytical Laboratories are certified by the State of California for the analysis requested. The Chain of Custody Record for the water samples is included in the Appendix to this report.

Analytical Results

Soil samples collected during the preliminary investigation were analyzed for CAM metals (Title 22, reference SW 846, third edition), polychlorinated biphenyls (PCB's) (EPA method 8080), total petroleum hydrocarbons (TPH) (EPA method 8015), purgeable aromatic hydrocarbons benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) (EPA method 602), halogenated solvents (EPA method 8010), and volatile organic compounds (EPA methods 624, 8240). These analyses were performed at Precision Analytical Laboratory in Richmond, California and IT Analytical Laboratory in San Jose, California.

Analytical results of the soil samples are pending their completion, scheduled for July 14, 1989.

The water sample collected from Monitoring Well B-1/MW-1 during the preliminary investigation was analyzed for CAM metals, TPH, BTEX, volatile organic compounds, halogenated solvents, and PCB's. These analyses were also performed at Precision Analytical Laboratory in Richmond, California and IT Analytical Laboratory in San Jose, California.

Analytical results of the water sample from Monitoring Well B-1/MW-1 indicated non-detectable concentrations of **TPH** (<0.5 mg/l method detection limit MDL), **BTEX** (<0.3 mg/l MDL), **halogenated solvents** (<0.3 mg/l MDL), and **PCB's** (<0.05 mg/l MDL). Analytical results for CAM metals indicate background concentrations. Analytical results of volatile organic compounds in water are also scheduled for completion by July 14, 1989. A copy of the laboratory analytical report is included in the Appendix to this report.

Conclusions and Recommendations

Laboratory analytical results acquired to date of the water sample collected from Monitoring Well B-1/MW-1, indicate nondetectable concentrations of TPH, BTEX, halogenated solvents, and PCB's. Analytical results of CAM metals indicate background concentrations. Analytical results of volatile organic compounds in ground water are pending their completion. Analytical results of the soil samples are pending their completion, scheduled for July 14, 1989.

BASED ON THE WATER SAMPLE ANALYTICAL RESULTS ANOMALOUS CONCENTRATIONS OF HAZARDOUS SUBSTANCES WERE NOT DETECTED IN THE GROUND WATER AT THE SUBJECT SITE. Although sample analysis are

incomplete, preliminary indications are favorable. However, we recommend a conservative approach be followed until the completed analytical tests are presented for the soil samples and additional ground water sample.

Limitations

The field investigation, laboratory testing, and analysis presented in this report were prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This investigation was conducted solely for the purpose of evaluating environmental conditions of the site with respect to hydrocarbon product, CAM metals concentration, pesticide, and chlorinated phenol contamination in the vicinity of the subject property. No soil engineering or geotechnical references are implied or should be inferred. Evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of available data points. Subsurface conditions may vary away from the available data points. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of study.

The information researched during our historical review to date was made available from government agencies. We cannot make any assurances concerning the completeness of the data presented to us.

If you have any questions regarding this report, please contact the undersigned. We appreciate this opportunity to be of service.

Sincerely,

L & W ENVIRONMENTAL SERVICES, INC.

Jack Arendt
Project Manager
R.G. 4322



APPENDIX

Blows per 1/2 Ft.	Sample Numbers	USCS	Depth in Feet	DESCRIPTION	Well Const.
			0	0.2 ft. Asphalt	Neat Cement
		GW	1	Brown, damp, loose, gravel and SAND	
				Gray-brown, damp to moist, medium-dense, gravel (concrete fragments) cobbles and SAND	
			2		Bentonite Seal
			3		Blank Casing
			4		
15			5		
19	S-B1-5.5	CL		Blue-gray, damp to moist, firm to stiff, gravely CLAY OVA = 340	
25			6		
			7		
			8		
			9	Gray and white (salt & pepper), moist to wet, medium dense, very-fine-grained SAND with shell fragments OVA = 370	
		SM			
5			10		
12	S-B1-10.5			GROUND WATER	
18			11		
			12		
			13		
			14		
			15		
2					
3					
19	S-B1-16	CL	16	Light-gray and dark blue gray, saturated, stiff, CLAY with wood fibers and greasy, hydrocarbon and transformer odor OVA = 640	No. 3 Sand
			17		
			18		
			19		
		CL/SM	20	Light gray and blue gray, saturated, firm to stiff CLAY with sand and wood fragments OVA = 520	Slotted Casing

REGISTERED GEOLOGIST
JON (JACK) ARENDT
R.G.4322
Exp. 6-30-90
STATE OF CALIFORNIA

LW Environmental Services, Inc.
2111 Jennings St., San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

LOG OF BORING B-1

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 1a

Blows per 1/2 Ft.	Sample Numbers	USCS	Depth in Feet	DESCRIPTION	Well Const.
14 14 17	S-B1-20.5	CL/SM	- 20	Light gray and blue gray, saturated, firm to stiff **CLAY** with sand and wood fragments OVA = 520	NO. 3 SAND SLOTTED CASING
			- 21		
			- 22	wood fragments common	
			- 23		
			- 24		
10 13 30	S-B1-25.5	CL	- 25	Brown to tan, wet, stiff **CLAY** (few wood fibers) OVA = 350	BLANK CASING
			- 26		
			- 27		
			- 28		
			- 29		
5 11 32	S-B1-30.5	CL SM	- 30 - 31	Brown to tan, saturated, stiff **CLAY** Light-gray, saturated, medium-dense, silty, very-fine-grained **SAND**	
			- 32		
			- 33		
			- 34		
			- 35		
			- 36		
			- 37		
			- 38		
			- 39		
			- 40		

Total Depth: 31.5 feet
Ground water encountered at 10.7 feet
Monitoring well installed 7-5-89
0 - 5.0 ft. blank casing
5.0 - 25.0 ft. slotted casing
25.0 - 30.0 ft. blank casing
Well developed on 7-6-89

REGISTERED GEOLOGIST
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LOG OF BORING B-1

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 1b

Blows per 1/2 Ft.	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
		GW	0	0.2 ft. Asphalt Gray-brown, damp, loose, sandy **GRAVEL**	BACKFILLED WITH PORTLAND CEMENT ON JULY 5, 1989
			1		
		CL	2	Blue-gray, moist, soft, silty, sandy, **CLAY** with some organics	
			3		
			4		
			5	Blue-gray, moist, soft, silty, sandy, **CLAY** with some organics OVA = 0	
7 8 8	S-B2-6		6		
			7		
			8		
			9		
12 45 31	S-B2-10	SM	10	Blue-gray and light-gray, moist to wet, loose silty, clayey, fine to medium grained **SAND** slight hydrocarbon odor OVA = 40	
		SM	11	**GROUND WATER** Light-gray to gray, saturated, medium dense, silty, **SAND**	
			12		
			13		
			14		
10 14 17	S-B2-16	CL	15		
			16	Light-brown, saturated, soft to firm, gravely **CLAY**, trace hydrocarbon odor OVA = 540	
			17		
			18		
		CL	19		
			20	Blue gray, saturated, very soft **CLAY** OVA = 320	

REGISTERED GEOLOGIST
JON (JACK) ARENDT
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Exp. 6-30-90
STATE OF CALIFORNIA

LW Environmental Services, Inc.
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LOG OF BORING B-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 2a

Blows per 1/2 Ft.	SAMPLE NUMBER	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
6 5 8	S-B2-20.5	CL	- 20 - 21	Blue gray, saturated, very soft CLAY OVA = 320	
			- 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40	Total Depth: 21.5 feet Ground water encountered at 11.5 feet No caving Backfilled with portland cement 7-5-89	

REGISTERED GEOLOGIST
JON (JACK) ARENDT
R.G.4322
Exp. 6-30-90
STATE OF CALIFORNIA

LW Environmental Services, Inc.
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LOG OF BORING B-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 2b

APPENDIX

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 07/06/89
Reported: 07/10/89
Job No #: 70921

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Project: Monitoring Well MW-1

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015
Polychlorinated Biphenyls Analysis; EPA Method 8080
mg/l

Lab ID	Client ID	Diesel	Gasoline	PCB's
70921-1	#W MW1-11	ND<0.5	ND<0.5	ND<0.5

QA/QC: Spike Recovery for Gasoline: 100.8%
Spike Recovery for PCB's: 116%

MDL: Method detection limit; Compound below this level would not be detected.

Detection Limit for Diesel: 0.5
Detection Limit for Gasoline: 0.5
Detection Limit for PCB: 0.5

Surinder Sidhu
Surinder Sidhu
Senior Chemist

APPENDIX

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State License No. 211

Received: 07/06/89
Reported: 07/10/89
Job No #: 70921

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Project: Monitoring Well MW-1

Aromatic Volatile Hydrocarbon Analysis:
EPA Method 8020
ug/l

Lab ID	Client ID	Benzene	Toluene	MDL
70921-1	#W MW1-11	ND<0.3	ND<0.3	0.3

Lab ID	Client ID	Ethylbenzene	Xylene	MDL
70921-1	#W MW1-11	ND<0.3	ND<0.3	0.3

QA/QC: Spike Recovery for Benzene: 84%

Surinder Sidhu
Surinder Sidhu
Senior Chemist

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 07/06/89
Reported: 07/10/89
Job #: 70921

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Monitoring Well MW-1

Analysis Method EPA 6010
Prep Method EPA 3010
mg/l

Lab ID #: 70921-1
Client ID: #W MW1-11 Monitoring Well MW-1

METAL		MDL	% SPIKE RECOVERY
Tl	ND<0.088	0.088	96
As	ND<0.088	0.088	102
Hg	ND<0.2	0.2	108
Se	ND<0.2	0.2	90
Mo	ND<0.040	0.04	86
Sb	ND<0.040	0.04	70
Zn	0.18	0.06	83
Cd	0.013	0.012	90
Pb	0.063	0.044	88
Co	0.021	0.02	86
Ni	0.10	0.026	83
Cr	0.064	0.006	90
V	0.060	0.004	90
Be	ND<0.001	0.001	96
Cu	0.040	0.004	87
Ag	0.022	0.004	66
Ba	0.60	0.004	86

MDL: Method detection Limit: Compound below this level would not be detected.

Surinder Sidhu
Senior Chemist

APPENDIX

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 07/06/89
Reported: 07/10/89
Job No. #: 70921

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Halogenated Volatile Organics
EPA Method 8010
ug/l

Lab ID: 70921-1
Client ID: #W MW1-11 Monitoring Well MW-1

Compound	Concentration	MDL
Chloromethane	ND<0.3	0.3
Bromomethane	ND<0.3	0.3
Vinyl Chloride	ND<0.3	0.3
Chloroethane	ND<0.3	0.3
Methylene chloride	ND<0.3	0.3
1,1-dichloroethane	ND<0.3	0.3
Trans-1,2 dichloroethene	ND<0.3	0.3
Chloroform	ND<0.3	0.3
1,2 dichloroethane	ND<0.3	0.3
1,1,1-trichloroethane	ND<0.3	0.3
Carbon tetrachloride	ND<0.3	0.3
Bromodichloromethane	ND<0.3	0.3
1,1-dichloropropene	ND<0.3	0.3
Trichloroethene	ND<0.3	0.3
Dibromochloromethane	ND<0.3	0.3
1,1,2-trichloroethane	ND<0.3	0.3

QA/QC: Spike Recovery for Carbon tetrachloride: 99%

MDL: Method detection limit: Compound below this level would not be detected.

Surinder Sidhu
Surinder Sidhu
Senior Chemist

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Production
Job No. 70921

Halogenated Volatile Organics
EPA Method 8010
ug/l

Compound	Concentration	MDL
Trans 1,3-dichloropropene	ND<0.3	0.3
2-chloroethyl vinyl ether	ND<0.3	0.3
Bromoform	ND<0.3	0.3
Tetrachloroethene	ND<0.3	0.3
1,1,2,2-tetrachloroethane	ND<0.3	0.3
Chlorobenzene	ND<0.3	0.3
1,3 Dichlorobenzene	ND<0.3	0.3
1,2 Dichlorobenzene	ND<0.3	0.3
1,4 Dichlorobenzene	ND<0.3	0.3
Dichlorodifluoromethane	ND<0.3	0.3
Trichlorofluoromethane	ND<0.3	0.3

CHAIN OF CUSTODY RECORD

PROJ. NO. 9077

SAMPLERS: (Signature)

PROJECT NAME AND ADDRESS:
Mike Liebert's Cust Products
6707 Bay Street, Emeryville Ca

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	PCB's	Halogenated	CAM Metals	REMARKS
				X	Monitoring well MW-1	X	X	X	X	X	X		3 x 40ml (VOC)
W-MW1-11													

RELINQUISHED BY: (Signature) — DATE 7/8/89 TIME 2:00 — RECEIVED BY: (Signature) — DATE 7/8/89 TIME 2:00

RELINQUISHED BY: (Signature) — DATE ____ TIME ____ — RECEIVED BY: (Signature) — DATE ____ TIME ____

RELINQUISHED BY: (Signature) — DATE ____ TIME ____ — RECEIVED BY: (Signature) — DATE ____ TIME ____

RELINQUISHED BY: (Signature) — DATE ____ TIME ____ — RECEIVED FOR LABORATORY BY: (Signature) — DATE ____ TIME ____

LW Environmental Services, Inc.
2111 Jennings Street, San Francisco, CA 94124-3224, Phone (415) 822-4555 FAX (415) 822-5290

September 26, 1989 L & W Project No. 9077.003

Mr. Robert P. Gates
Erskine & Tulley
580 Market Street
San Francisco, California 94104

RECEIVED
SEP 27 1989
EAI - RPC

Subject: Environmental Site Assessment - Phase II Subsurface Evaluation - Mike Roberts Color Productions property, 6707 Bay Street, Emeryville, California.

Dear Mr. Gates:

Pursuant to your request, we have completed our second phase of the Environmental Site Assessment - Subsurface Evaluation - for the subject site located at 6707 Bay Street in Emeryville, California. Our primary purpose was to investigate historical and background information pertaining to the site and evaluate existing or potential conditions and activities in the vicinity of the site that may result in the presence of hazardous materials in the soil or ground water. Based on our initial findings, a subsurface investigation was recommended to evaluate observed contamination beneath the subject site.

INTRODUCTION

- Scope

Our scope of services for the Phase II, Subsurface Investigation consisted of performing the following tasks:

* Complete sampling of suspect areas observed during a walk-through of the site conducted with Mike Roberts Color Production personnel and others on August 17, 1989.

* Complete preliminary subsurface evaluation consisting of three additional soil borings into ground water and instal three, two inch diameter, ground water monitoring wells.

* Collect representative soil and ground water samples. Soil samples to be described in accordance with the Unified Soil Classification System (USCS).

* Analyze representative suspect material. Soil, sludge, fluid, and ground water samples to be evaluate for the presence of contaminants. Laboratory analysis to include the following:

  - CAM metals (Title 22, reference SW 846, third edition, EPA method 6010)
  - Pesticides, polychlorinated biphenyls (PCB's) (EPA method 8080)
  - Total Petroleum Hydrocarbons (TPH) (EPA method 8015)
  - Purgeable aromatic hydrocarbons benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) (EPA methods 8020 or 602)
  - Halogenated Volatile Organic solvents (HVO) (EPA method 8010).
  - Predisposal analysis consisting of pH (EPA method 9045), Cyanide (EPA method 9010), Sulfide (EPA method 9030), Halogenated Compounds, PCB's, and TPH
  - Purgeable Organics (EPA method 8240)
  - Acid and Base Neutral Extractables (EPA method 8270)

* Prepare a report presenting the findings from the above, and our opinion regarding the presence of contamination by hazardous substances currently on the site.

- Summary of Site Observations

The following is a summary of the observations and tasks discussed in Supplemental Environmental Site Assessment Report, dated August 25, 1989 (L & W Environmental Services, Inc. Report No. 9077.002). The purpose of the Supplemental Report was to present completed analytical data collected during previous soil investigations and discuss incongruities reported by others. Based on findings derived from the report and in accordance with representatives of Mike Roberts Color Productions (MRCP), additional investigation and analysis of suspect areas was performed.

1) On August 17, 1989, Mr. Tom Gram, Mr. Robert Gates, members of L & W Environmental Services, Inc. and Mike Roberts Color Productions met to discuss findings

concerning the subject site. A tour of the site was conducted to provide recommendations for further site evaluation based on the findings of the walk-through.

2) Results of site observations indicated two wells, located in the Printing and Warehouse Facility (Figure 1), were shallow compressor sumps used to collect discharged condensate from air lines. One sump was connected to the municipal sewer system. The contents of the second sump were, presumably, dissipated through evaporation.

3) On August 14, 1989, three subsurface chemical storage tanks were discovered near the Bay Street side of the property (Figure 1). The tanks were 2,000 gallon, 1,650 gallon, and 3,200 gallon containers located approximately three feet below the ground surface. Product delivery lines were found sealed and capped when traced into the Printing and Warehouse Facility. Some product remained inside the tanks. Subjective evidence indicated contamination of near surface soil was present in the vicinity of the tank cavity.

4) Four drains, located in the warehouse second floor mezzanine, channeled discarded chemical wastes into a sump at the rear of the building. The sump contained a submersible pump connected to the sanitary sewer system.

5) On August 18, 1989, residue from the four drains, located in the warehouse mezzanine, was sampled for laboratory analysis. According to MRCP personnel, the drains were used for the disposal of photographic developing solutions.

6) The sump, located at the rear of the facility, outside of the building, was excavated on August 21, 1989. No subjective evidence of contamination was observed during the excavation. Samples of near surface soil (one foot below grade) and sump fluids were collected for laboratory analysis.

7) An area along the rear property line (west side) of the site (Figure 1) was also excavated on August 21, 1989. Soil from the excavation was sampled for laboratory analysis and stockpiled for later removal to an approved disposal facility.

FIELD PROCEDURES

- Subsurface Evaluation

On April 26, July 7, August 28, and August 31, 1989, representatives of L & W Environmental Services coordinated the drilling of eight soil borings (IS-1, IS-2, and B1 through B6). L & W personnel also assisted in the installation of four ground water monitoring wells (MW1, MW3, MW5 and MW6) in borings B1, B3, B5, and B6 at the site. Locations of the soil borings and monitoring wells are described below and are shown on the enclosed Site Plan (Figure 1). Boring locations were chosen to evaluate potential sources of observed subsurface contamination at the site and were based on data derived from previous investigation activities.

- Soil Borings

Borings IS-1, IS-2, B3, and B4, were drilled with an 8-inch-diameter, continuous flight, hollow-stem auger using a CME-45 drill rig operated by K & L Drilling Company, Inc. of Alameda, California. Borings B2, B5, and B6, were drilled with an 8-inch-diameter, continuous flight, hollow-stem auger using a CME-55 drill rig operated by West Hazmat Drilling Corp. of Rancho Cordova, California. Boring B1 was drilled with a 12-inch-diameter, continuous flight, hollow-stem auger using a CME-55 drill rig also operated by West Hazmat Drilling Corp. Augers were steam-cleaned prior to drilling each boring to minimize the possibility of cross-contamination.

Boring B1 is located approximately 40 feet west of the northwest corner of the tank cavity, in the inferred down-gradient direction of ground water flow. Boring B2 is located about 20 feet west of the office complex. Boring B3 was located about 7 feet east of the warehouse and 20 feet south of the tank cavity in the inferred cross-gradient ground water flow direction. Boring B4 is located about 130 feet west of the the office complex and 110 feet west of Boring B2, along the northern perimeter of the property line. Boring B4 was abandoned at 16 feet below grade after an auger twisted off during drilling and was left in the hole. Boring B5 is located approximately 10 feet south of the shallow excavation in the rear of the property, approximately 25 feet west of Borings IS-1 and IS-2. Boring B6 is located about 10 feet southwest of Boring B4.

Borings B1, B3, B5, and B6 were drilled to depths sufficient to install ground-water monitoring wells to depths of approximately

31.5, 26.0, 26.5, and 26.5 feet below grade, respectively. Drill cuttings with detectable hydrocarbon concentrations were isolated from drill cuttings with nondetectable hydrocarbon concentrations at the site. The cuttings are labeled and stored at the site in 55 gallon drums (DOT 17E).

- Soil Sampling

Soil samples were collected from the borings at 5-foot intervals from the ground surface to the total depth of the boring and described using the Unified Soil Classification System. Sample descriptions are shown on the Logs of Borings (Plates 1a through 6b).

Soil samples were removed from the sampler and subjectively evaluated for hydrocarbon contamination, based on soil discoloration and organic vapor analyzer (OVA) measurements. Field instruments, such as the OVA, are used to evaluate relative concentrations of vapor but cannot be used to give absolute levels of hydrocarbon contamination. OVA screening was not available during the drilling of IS-1 and IS-2.

Soil samples collected from the borings B1 through B6 had the following OVA measurements:

Boring B1		Boring B2		Boring B3	
Depth (feet)	OVA (ppm)	Depth (feet)	OVA (ppm)	Depth (feet)	OVA (ppm)
5.5	340	6.0	0	5.0	50
10.5	370	10.0	40	12.0	150
16.0	640	16.0	540	15.0	260
20.5	520	20.5	320	20.0	30
25.5	350			25.0	20
30.5	N A				
Total Depth = 31.5 feet		Total Depth = 21.5 feet		Total Depth =26.0 feet	

Boring B4		Boring B5		Boring B6	
Depth (feet)	OVA (ppm)	Depth (feet)	OVA (ppm)	Depth (feet)	OVA (ppm)
4.5	140	6.0	190	5.0	50
10.0	320	11.0	300	12.0	150
14.5	480	15.5	350	15.0	260
		22.5	410	20.0	30
		25.5	430	25.0	20
Total Depth = 16.0 feet		Total Depth = 26.5 feet		Total Depth =26.5 feet	

Undisturbed samples were collected from the borings by advancing the boring to a point immediately above the sampling depth and then driving a 2.5 inch diameter, California-modified, split-spoon sampler into the soil through the hollow center of the auger.

The sampler, containing 2.0 inch diameter brass sleeves, was driven 18 inches with a standard 140-pound hammer, repeatedly dropped 30 inches. The number of blows to drive the sampler each successive 6 inches was recorded to evaluate relative consistency of the soil. The driven samples were immediately sealed in their brass sleeves with aluminum foil, plastic caps and airtight tape. They were then labeled and placed in ice storage for transportation. A Chain of Custody Record was initiated by L & W Environmental Services personnel in the field and accompanied the samples to a State-certified laboratory for analytical testing. The Chain of Custody Record for boring samples tested is included in the Appendix to this report.

- Monitoring Well Construction

Four ground water monitoring wells MW1, MW3, MW5 and MW6 were installed in borings B1, B3, B5, and B6 at the site. Monitoring well MW1 was constructed with schedule 40, 4-inch-diameter, polyvinyl chloride (PVC) casing. The bottom 5 feet in MW1 (25 to 30 feet) is blank, followed by 20 feet of machine-perforated PVC with 0.020-inch-wide slots. The remaining 5 feet of casing in MW1, from the top of the screened portion to the ground surface, is also blank.

Wells MW3, MW5 and MW6 were constructed with schedule 40, 2-inch-diameter, polyvinyl chloride (PVC) casing. The lower 20 feet of

the wells consist of machine-perforated PVC with 0.020-inch-wide slots. The remaining 5 feet of casing, from the top of the screened portion to the ground surface, is blank.

All casing joints are flush-threaded. Glues, chemical cements, or solvents were not used to join the casing sections. The top of the casing is covered with a slip cap, and the bottom has a threaded end plug.

The annular space of each well was backfilled with No. 3 grade sand from the total depth of each well to approximately 2 to 3 feet above the screened casing. A bentonite plug, approximately 1-foot-thick, was placed above the sand as a seal against cement entering the sand pack, and the remaining annulus was backfilled with neat cement to grade. Graphic representations of well constructions are shown in the right columns of the Log of Boring plates.

The wells are protected with cast-iron and steel wellhead covers installed approximately 1 inch above the surrounding grade and set in place with concrete. Each wellhead cover has a locking, watertight, expanding seal to protect the well against surface water infiltration and reduces the possibility of vandalism or accidental disturbance of the well.

- Water Sampling

Water samples were collected from the four monitoring wells for subjective analysis. Samples were collected by lowering a Teflon bailer approximately half its length through the air-water interface. The samples were examined and no floating product, sheen, or emulsion was observed.

The monitoring wells were developed by air-and water-jetting and purged of approximately four well volumes of water before water samples were collected for laboratory analysis. Following the purge period, and after well recovery to static water level, water samples were collected using a laboratory-cleaned Teflon bailer. The bailer was lowered approximately 5 feet into the water to retrieve a sample. The water samples were stored in laboratory-cleaned, 40-milliliter glass vials. Each vial was rinsed with fluid from the bailer, emptied, then slowly filled again with fluid. Each sample was then immediately sealed with a Teflon-lined cap, labeled, and placed on ice for transport to a state-certified laboratory. Chain-of-custody protocol, as described earlier, was followed throughout the field and laboratory procedures. Samples were taken to Precision Analytical Laboratory of Richmond,

California, for testing. Precision Analytical is certified by the state of California for the analysis requested. The Chain of Custody Record for the water samples is included in the Appendix of this report.

EVALUATION OF GROUND WATER FLOW DIRECTION

On September 7, 1989, L & W Environmental Services personnel evaluated the ground water gradient in the wells at the site. A Wild Herburgg NAK-1 automatic leveling instrument was used to measure the differences in elevation between the top of the well casings and the instrument level from an initial position. Measurements were recorded to the nearest 0.01 foot. The surveying instrument was moved to a second position, approximately 230.0 feet south 70 degrees west of the first position, and the measurements were repeated to confirm the readings from the first position. This survey data enables the ground water monitoring wells to be more precisely located than conventional tape and compass methods and also provides a means of establishing a datum.

Depths to static ground water levels below the well casings were measured to the nearest 0.01 foot with a Solinst electric water-level indicator. The casing elevations and depths to ground water were combined to calculate ground water elevations below datum (Table 1). The datum is an arbitrary elevation corresponding to the top of the highest casing (well No. MW3). These calculations were used to evaluate the direction of ground water flow and gradient across the site as shown on the Site Plan (Figure 2). At the time measurements were made the local ground water flow direction, calculated by L & W Environmental Systems, appears to be in a northwesterly direction (north 60 west) with an approximate gradient of 0.875 vertical feet per 100 horizontal feet. These calculations were used to evaluate the direction of ground water flow across the site. The corrected depth to ground water in Monitoring Well MW5 was approximately 2.45 feet lower than Monitoring Well MW3 and 0.15 feet lower than Monitoring Well MW6.

TABLE 1

GROUND WATER ELEVATIONS IN MONITORING WELLS

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

MONITORING WELL NUMBER	TOP OF CASING (FEET BELOW DATUM)	STATIC WATER LEVEL*	WATER LEVEL (FEET BELOW DATUM)
MW1	0.00	11.60	11.60
MW3	0.52	9.83	10.35
MW5	2.53	10.27	12.80
MW6	2.15	10.50	12.65

* Measured in feet below top of casing
Datum is the top of highest casing (well MW-1)

ANALYTICAL RESULTS

- Soil Samples

Soil samples collected during our subsurface and surface investigations were analyzed for the following:

CAM Metals (Title 22, reference SW 846, third edition, EPA methods 6010 & 3050)

Polychlorinated biphenyls (PCB's) (EPA method 8080)

Total petroleum hydrocarbons (TPH) (EPA method 8015)

Purgeable aromatic hydrocarbons benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) (EPA method 8020)

Oil and grease (Standard method 503D)

Purgeable organics compounds (EPA method 8240)

Acid and Base Neutral Extractables (EPA method 8270)

Halogenated Volatile Organics (HVO) (EPA method 8010)

Predisposal analysis consisting of pH (EPA method 9045), Cyanide (EPA method 9010), Sulfide (EPA method 9030), Halogenated Compounds, PCB's, and TPH

These analyses were performed at Precision Analytical Laboratory in Richmond, California and Clayton Environmental Consultants, inc. in Pleasanton, California.

- Soil Borings IS-1 and IS-2

Soil samples collected from soil borings IS-1 and IS-2 were analyzed for TPH, BTEX, oil and grease, PCB's, CAM Metals, and halogenated volatile organics. Analytical results indicated detectable concentrations of TPH as diesel, TPH as gasoline, PCB's and oil and grease were present (Table 2). Detectable concentrations of BTEX were also present (Table 3).

Detectable concentrations of the following halogenated volatile organics [Method Detection Limit (MDL) = 0.03 mg/kg to 0.15 mg/kg] were present in soil sample Number IS1-10.5 only:

Solvent (HVO)	Concentration	MDL
1,2-dichloroethane	0.50	0.06
Tri-Chloroethene	0.30	0.06
Chlorobenzene	0.11	0.06

Analytical results for CAM Metals in soil samples from borings IS-1 and IS-2 indicate detectable concentrations are present at the subject site (Table 4).

TABLE 2

RESULTS OF HYDROCARBON AND PCB ANALYSIS
SUBSURFACE SOIL SAMPLES

SOIL BORINGS IS-1 AND IS-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease	PCB's
IS1-03.5	46	N D<10	1,915	0.4
IS1-07.0	200	N D<10	3,390	0.7
IS1-10.5	N D<10	300	2,185	N D<0.5
IS2-03.0	50	N D<10	1,305	0.2
IS2-08.5	N D<10	N D<10	36,535	N D<0.5

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 50 mg/kg
Detection Limit for PCB's = 0.5 mg/kg

IS1-03.5
- IS1-03.5 — boring number
- IS1-03.5 — depth in feet below grade

TABLE 3

**RESULTS OF BTEX HYDROCARBON ANALYSIS
OF
SUBSURFACE SOIL SAMPLES**

SOIL BORINGS IS-1 AND IS-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	B	T	E	X
IS1-03.5	N D<0.03	0.06	N D<0.03	0.04
IS1-07.0	N D<0.03	0.20	N D<0.03	0.07
*IS1-10.5	0.24	1.30	1.8	11.00
IS2-03.0	N D<0.03	0.25	N D<0.03	0.10
IS2-08.5	0.14	0.10	1.4	4.5

B = Benzene T = Toluene E = Ethylbenzene
X = Xylene isomers

Results: N D = Not Detected

Detection Limits = 0.03 mg/kg
* Detection Limits = 0.06 mg/kg

IS1-03.5
- depth in feet below grade
- boring number

TABLE 4

RESULTS OF METAL ANALYSIS OF SUBSURFACE SOIL SAMPLES

SOIL BORINGS IS-1 AND IS-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

METAL	SAMPLE NUMBERS					MDL
	IS1-3.5	IS1-7.0	IS1-10.5	IS2-3.0	IS2-8.5	
Tl	N D	N D	N D	N D	N D	2.2
As	N D	N D	N D	N D	N D	2.2
Hg	N D	N D	N D	N D	N D	5.0
Se	N D	N D	N D	N D	N D	5.0
Mo	1.2	N D	3.7	1.2	N D	1.0
Sb	6.5	1.4	1.6	N D	N D	1.0
Zn	200	48.9	5400	270	22.9	0.15
Cd	4.1	4.2	10.2	3.2	1.5	0.3
Pb	100	130	4300	90	5.3	1.1
Co	5.6	6.4	11.4	6.0	2.8	0.5
Ni	32.1	31.5	42.6	30.9	15.5	0.65
Cr	20.1	21.5	63.8	18.5	6.6	0.15
V	15.4	17.3	17.3	15.6	6.7	0.1
Be	0.05	N D	N D	0.025	N D	0.025
Cu	70	104	1042	56.7	13.8	0.1
Ag	15.2	N D	N D	N D	N D	0.1
Ba	110	130	255	90	35.7	0.1

Results: N D = Not Detected
MDL = Method detection limit: Compounds below this level would not be detected. Values are in mg/kg.

IS1-3.5
- IS1 — boring number
- 3.5 — depth in feet below grade

- Soil Borings B1 and B2

Soil samples collected from soil borings B1 and B2 were analyzed for the following:

TPH	Oil and grease
PCB's	CAM Metals
Halogenated volatile organics	

Analytical results indicated nondetectable concentrations of PCB's and detectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease were also present in some of the samples (Table 5).

Analytical results for CAM Metals in soil samples from borings B1 and B2 indicate detectable concentrations are present at the subject site (Table 6).

There were no detectable concentrations of halogenated volatile organics [Method Detection Limit (MDL) = 0.03 mg/kg] present in soil samples collected from borings B1 and B2.

- Soil Borings B3 and B4

Soil samples collected from soil borings B3 and B4 were analyzed for the following:

TPH as diesel	TPH as gasoline
oil and grease	pH
Sulfide	Cyanide

Analytical results indicated detectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease were present in the samples (Table 7).

TABLE 5

RESULTS OF HYDROCARBON AND PCB ANALYSIS
SUBSURFACE SOIL SAMPLES

SOIL BORINGS B1 AND B2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease	PCB's
S-B1- 5.5	12	N D<10	845	N D<0.5
S-B1-10.5	N D<10	N D<10	N D<50	N D<0.5
S-B1-16	63	N D<10	1,600	N D<0.5
S-B1-20.5	N D<10	N D<10	80	N D<0.5
S-B1-25.5	N D<10	N D<10	95	N D<0.5
S-B1-30.5	N D<10	N D<10	N D<50	N D<0.5
S-B2- 6.0	19	N D<10	1,160	N D<0.5
S-B2-10	172	20	14,900	N D<0.5
S-B2-16	N D<10	N D<10	N D<50	N D<0.5
S-B2-20.5	N D<10	N D<10	N D<50	N D<0.5

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 50 mg/kg
Detection Limit for PCB's = 0.5 mg/kg

S-B1-5.5
- 5.5 — depth in feet below grade
- B1 — boring number
- S — soil sample

TABLE 6

RESULTS OF METAL ANALYSIS OF SUBSURFACE SOIL SAMPLES

SOIL BORINGS B1 AND B2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

METAL	SAMPLE NUMBERS					MDL
	S-B1-5.5	S-B1-10.5	S-B1-16	S-B1-20.5	S-B1-25.5	
Tl	N D	N D	N D	N D	N D	2.2
As	N D	N D	N D	N D	N D	2.2
Hg	N D	N D	N D	N D	N D	5.0
Se	N D	N D	N D	N D	N D	5.0
Mo	N D	N D	N D	N D	N D	1.0
Sb	N D	N D	N D	N D	N D	1.0
Zn	94	5.4	6,040	106	27	0.15
Cd	1.4	0.6	12	2.4	2.0	0.3
Pb	61	3	160	77	8.0	1.1
Co	5.7	2.6	12.4	4.5	8.0	0.5
Ni	14	12.7	30	19	24	0.65
Cr	13	12.5	42	15	10	0.15
V	15	7	32	12	12	0.1
Be	N D	N D	N D	N D	N D	0.025
Cu	28	4	153	23	13	0.1
Ag	N D	N D	N D	N D	N D	0.1
Ba	92	21	78	61	67	0.1

Results: N D = Not Detected
MDL = Method detection limit: Compounds below this level would not be detected. Values are in mg/kg.

S-B1-5.5
- S-B1-5.5 — depth in feet below grade
- S-B1-5.5 — boring number
- S-B1-5.5 — soil sample

TABLE 6
(continued)

RESULTS OF METAL ANALYSIS OF SUBSURFACE SOIL SAMPLES

SOIL BORINGS B1 AND B2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

METAL	SAMPLE NUMBERS					MDL
	S-B1-30.5	S-B2-6.0	S-B2-10.0	S-B2-16.0	S-B2-20.5	
Tl	N D	N D	N D	N D	N D	2.2
As	N D	N D	N D	N D	N D	2.2
Hg	N D	N D	N D	N D	N D	5.0
Se	N D	N D	N D	N D	N D	5.0
Mo	N D	N D	N D	N D	N D	1.0
Sb	N D	1.2	N D	N D	N D	1.0
Zn	15	67	532	23	11	0.15
Cd	1.2	1.6	N D	2.4	1.4	0.3
Pb	4.5	167	1,360	11	8.7	1.1
Co	3.6	5	2.7	12	1.9	0.5
Ni	22	18.5	12.5	79	16.6	0.65
Cr	9.9	11.8	12.7	43	7.8	0.15
V	6.7	9.7	13	10	17	0.1
Be	N D	N D	N D	N D	N D	0.025
Cu	7.4	92	22.5	10	9.0	0.1
Ag	N D	N D	N D	N D	N D	0.1
Ba	23	109	41	95	35	0.1

Results: N D = Not Detected
MDL = Method detection limit: Compounds below this level would not be detected. Values are in mg/kg.

S-B1-30.5
- S- = soil sample
- B1- = boring number
- 30.5 = depth in feet below grade

TABLE 7

RESULTS OF HYDROCARBON ANALYSIS
SUBSURFACE SOIL SAMPLES

SOIL BORINGS B3 AND B4

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease
S-B3- 5.0	30	N D<10	1,845
S-B3-12.0	20	N D<10	95
S-B3-15.0	260	120	625
S-B3-20.0	N D<10	N D<10	N D<10
S-B3-25.0	N D<10	N D<10	20
S-B4-04.5	N D<10	N D<10	6,685
S-B4-10.0	170	N D<10	25,470
S-B4-14.5	N D<10	N D<10	N D<10

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 10 mg/kg

S-B3-5.0
- S-B3-5.0 — depth in feet below grade
- S-B3-5.0 — boring number
- S-B3-5.0 — soil sample

Sulfide and pH analysis of the soil samples indicated the following results:

Sample No.	pH	Sulfide
S-B3-05.0	8.1	negative
S-B3-12.0	8.8	negative
S-B3-15.0	9.3	2,320 mg/kg
S-B3-20.0	8.3	negative
S-B3-25.0	8.7	negative
S-B4-04.5	7.7	negative
S-B4-10.0	8.4	13.0 mg/kg
S-B4-14.5	9.0	5.0 mg/kg

Cyanide was not detected in the samples collected from borings B3 and B4 [Method Detection Limit (MDL) = 1.0 mg/kg].

- Soil Borings B5 and B6

Soil samples collected from soil borings B5 and B6 were analyzed for TPH as diesel, TPH as gasoline, oil and grease, pH, Sulfide, Cyanide, CAM Metals, and Halogenated Volatile Organics. Analytical results indicated detectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease were present in some of the samples (Table 8).

Sulfide and pH analysis of the soil samples indicated the following results:

Sample No.	pH	Sulfide
S-B5-06.0	8.0	negative
S-B5-11.0	8.4	10.0 mg/kg
S-B5-15.5	9.2	10.0 mg/kg
S-B5-22.5	9.1	negative
S-B5-25.5	9.0	negative
S-B6-20.5	8.8	negative
S-B6-25.5	8.6	negative

There were no detectable concentrations of cyanide or halogenated volatile organics [Method Detection Limit (MDL) = 0.03 mg/kg] present in soil samples collected from borings B5 and B6.

Analytical results for CAM Metals in soil samples from borings B5 and B6 indicate detectable (background) concentrations, are present at the subject site.

TABLE 8

RESULTS OF HYDROCARBON ANALYSIS
SUBSURFACE SOIL SAMPLES

SOIL BORINGS B5 AND B6

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease
S-B5- 6.0	N D<10	N D<10	330
S-B5-11.0	15	25	3,580
S-B5-15.5	15	20	1,200
S-B5-22.5	20	N D<10	110
S-B5-25.5	N D<10	N D<10	115
S-B6-20.5	N D<10	N D<10	100
S-B6-25.5	N D<10	N D<10	190

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 10 mg/kg

S-B3-5.0
- S — soil sample
- B3 — boring number
- 5.0 — depth in feet below grade

- Interior Sumps

Fluid samples collected from the two sumps, located inside of the Printing and Warehouse Facility, were analyzed for TPH as diesel and TPH as gasoline only due to insufficient quantities of sample

material. The analytical results were nondetectable for fluid collected from the sump that drained into the sewer. Analytical results of 200 mg/kg TPH as diesel and nondetectable TPH as gasoline were recorded for fluid collected from the sump that had no drain.

- Mezzanine Drains

Residue samples collected from drains located in the second floor mezzanine were analyzed for the following:

CAM Metals	pH
Cyanide	Sulfide
Halogenated Compounds	PCB's

Results of the CAM Metals analysis indicated detectable concentrations of antimony, barium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, silver, vanadium, and zinc. Analytical results of the metal analysis are included in the Appendix to this report.

Sulfide and pH analysis of the drain residue sampled indicated the following results:

Sample No.	pH	Sulfide
R-D1-0	5.5	negative
R-D2-0	8.0	negative
R-D3-0	8.1	negative
R-D4-0	5.4	negative

Cyanide, halogenated compounds, and PCB's were all nondetectable in the samples collected from the drains.

- Exterior Sump Fluid

A fluid sample collected from the sump, located toward the rear of the property was analyzed for the following:

CAM metals	TPH as diesel
TPH as gasoline	Oil and grease
pH	Cyanide
Sulfide	Purgeable organics

Results of CAM Metal analysis were nondetectable for all but the following elements:

Element	Concentration	STLC
Barium	0.023	100 mg/l
Copper	0.92	25 mg/l
Lead	0.103	5.0 mg/l
Zinc	0.51	250 mg/l

The laboratory record of analytical results for TPH as diesel (0.7 mg/l), TPH as gasoline (N D<0.5 mg/l), and oil and grease (50 mg/l) are included in the Appendix to this report. Nondetectable results were recorded for cyanide, sulfide, and purgeable organics. The sump fluid had a pH of 7.3.

- Exterior Sump Soil

A soil sample collected from one foot below grade, near the rear sump, was analyzed for low level purgeable organics. Results of this analysis indicated nondetectable concentrations.

- Rear Excavation

An excavation of soil to approximately three feet below grade was performed along the western property fence line. Samples were collected at one foot and three foot depths and analyzed for purgeable organics. Analytical results indicated nondetectable concentrations for all but the following compounds:

Depth	Compound	Concentration	Detection Limit
1 ft.	Toluene	80 mg/kg	8 mg/kg
1 ft.	Ethylbenzene	20 mg/kg	20 mg/kg
1 ft.	Total Xylenes	360 mg/kg	20 mg/kg
3 ft.	Ethylbenzene	20 mg/kg	10 mg/kg
3 ft.	Total Xylenes	77 mg/kg	8 mg/kg

A copy of the laboratory report of analytical results for the soil samples collected in the excavation is included in the Appendix to this report.

- Monitoring Well MW1

Ground water was sampled from Monitoring well MW1 on July 8, and September 7, 1989. The laboratory analysis conducted on the July 8 sample consisted of the following:

TPH as diesel	TPH as gasoline
BTEX	CAM metals
Halogenated solvents	PCB's

Laboratory analytical results indicated nondetectable concentrations of TPH as diesel, TPH as gasoline, BTEX, halogenated solvents and PCB's (Appendix).

According to Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes, analytical results of CAM Metals indicated concentrations are well below the Soluble Threshold Limit Concentration (STLC) values.

The laboratory analysis conducted on the ground water sample collected from Monitoring well MW1 on September 7 consisted of the following:

TPH as diesel	TPH as gasoline
Acid and Base	Purgeable organics
Neutral Extractables	

Laboratory analytical results indicated nondetectable concentrations of TPH as diesel, TPH as gasoline, purgeable organics and extractable acid compounds. One base neutral extractable compound analyzed, Bis-(2-ethylhexyl)phthalate, indicated a detectable concentration of 40 ug/l.

- Monitoring Wells MW3, MW5, and MW6

Ground water from Monitoring wells MW3, MW5, and MW6 was sampled on September 7, 1989. The laboratory analysis consisted of the following:

TPH as diesel	TPH as gasoline
Oil and grease	Acid and Base
Purgeable organics	Neutral Extractables

Laboratory analytical results for the ground water samples collected from the monitoring wells indicated nondetectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease. Purgeable organics analysis for MW3 and MW6 also indicated

nondetectable concentrations. Base neutral extractable compounds analyzed in monitoring wells MW3 and MW6 were nondetectable except for Bis-(2-ethylhexyl)phthalate which indicated a detectable concentration of 80 ug/l and 20 ug/l, respectively.

Monitoring well MW5 had detectable concentrations of the following compounds:

Acid and Base Neutral Extractables

Acid Compounds	Concentration	Detection Limits
2,4-dimethylphenol	6 ug/l	1 ug/l
Base Neutral Compounds		
Naphthalene	5 ug/l	1 ug/l
2-methyl naphthalene	16 ug/l	1 ug/l
Bis-(2-ethylhexyl)phthalate	30 ug/l	10 ug/l

Purgeable Organics

Organic Compounds	Concentration	California Drinking Water Standard
Vinyl chloride	4 ug/l	0.5 ug/l
Trans-1,2-dichloroethene	8 ug/l	6.0 ug/l
Benzene	8 ug/l	1.0 ug/l
Ethylbenzene	6 ug/l	680 ug/l

CONCLUSIONS

Based on field observations and the results of laboratory analyses of soil and water samples collected from excavations, sumps, drains, and the soil borings, we conclude that:

- Laboratory test results of the soil samples collected from the borings indicate TPH as diesel concentrations ranged from nondetectable to 260 ppm, TPH as gasoline ranged from nondetectable to 300 ppm and oil and grease concentrations ranged from nondetectable to 36,535 ppm.

  Detectable TPH as diesel was measured in samples collected from the following borings:

Boring IS1 at depths of 3.5 and 7.0 feet
Boring IS2 at a depth of 3.0 feet
Boring B1 at depths of 5.5 and 16.0 feet
Boring B2 at depths of 6.0 and 10.0 feet
Boring B3 at depths of 5.0, 12.0, and 15.0 feet
Boring B4 at a depth of 10 feet
Boring B5 at depths of 11.0, 15.5, and 22.5 feet

Detectable TPH as gasoline was indicated in samples collected from the following borings:

Boring IS1 at a depth of 10.5 feet
Boring B2 at a depth of 10.0 feet
Boring B3 at a depth of 15.0 feet
Boring B5 at depths of 11.0 and 15.5 feet

Detectable oil and grease was indicated in all the samples collected except from the following borings:

Boring B1 at depths of 5.5 and 16.0 feet
Boring B2 at depths of 6.0 and 10.0 feet
Boring B3 at depths of 5.0, 12.0, and 15.0 feet
Boring B4 at a depth of 10 feet

- Concentrations of oil and grease at levels below 15 feet appear to indicate they were a product of bay infilling and not above ground activities.

- Levels of pH and sulfide are within limits for disposal of contaminated drill cuttings at a qualified disposal facility.

- Based on findings of analytical results of ground water samples collected from Monitoring Wells MW1, MW3, MW5, and MW6 it appears Bis-(2-ethylhexyl)phthalate is common to all the samples tested. Phthalate compounds are employed in the manufacturing of plasticizer for cellulose acetate used in plastic films and sheets. Phthalate compound concentrations, at the levels found, have been documented in the past to be associated with landfills and municipal dump sites in the area.

- Compounds such as 2,4-dimethylphenol, naphthalene, and 2-methyl naphthalene were used in the manufacturing of coal tars for roofing.

- Significant values were recorded in water from Monitoring Well MW5 for concentrations of vinyl chloride, trans-1,2-dichloroethene, and benzene. These concentrations present in the shallow ground water slightly exceed California Drinking Water Standards.

- Significant quantities of lead (0.063 mg/l) and chromium (0.064 mg/l) were also recorded in ground water sampled from Monitoring Well MW1. Although the concentrations do slightly exceed California Drinking Water Standards (0.05 mg/l for lead and chromium), they are very close, indicating aquatic toxicity is not an issue.

- Based on Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes, the following analyzed soil samples were found to contain concentrations exceeding the Total Threshold Limit Concentration (TTLC) values:

Sample No.	Concentration	TTLC
IS1-10.5	5,400 Zinc	5,000 mg/kg
IS1-10.5	4,300 Lead	1,000 mg/kg
S-B1-16	6,040 Zinc	5,000 mg/kg
S-B2-10	1,360 Lead	1,000 mg/kg
S-B5-15.5	1,270 Lead	1,000 mg/kg
R-D4-0	9,930 Zinc	5,000 mg/kg

Please refer to the Appendix for the complete list of substances, the Soluble Threshold Limit Concentrations, and their Total Threshold Limit Concentrations in Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes.

- Conclusions based on our preliminary findings discussed in the Supplemental Environmental Site Assessment Report appear to be supported by the results of our additional investigations. The concentrations of hydrocarbon contamination in some soil samples are above action levels as recommended by local regulatory agencies.

- Hydrocarbon contamination in the vicinity of the subject site is well substantiated and does not appear to be a direct result of the current practices of MRCP. Documented, uncontrolled dumping, resulting in the contamination of the subsurface, had been relatively common prior to and during the infilling of the bay in the late 1940's. The area south of the subject site to

64th Street was a municipal dump between 1940 and 1960.

- Based on the site history prior to Mike Roberts Color Productions, background values for contamination are in hydrocarbon, as well as other miscellaneous contaminants as indicated the high values for lead and zinc. Results from our analysis of drain residue and our understanding of the chemicals used during production at Mike Roberts indicates contamination existing at the property is a result of dumping procedures prior to the present MRCP operations. Results of our earlier sampling of the drum storage facility at the rear of the site also supports our opinion.

- Based on our calculated ground-water flow direction, Monitoring Well MW3 is located up-gradient and Monitoring Wells MW5 and MW6 are located down-gradient at the site. Monitoring Well MW1 is located down-gradient from the location of the underground chemical storage tanks at the site.

- Hydrocarbon product floating on the ground water was not encountered in the monitoring wells.

RECOMMENDATIONS

1) Delineate and excavate the extent of shallow hydrocarbon contamination in the soil at the rear of the site.

3) Continue sampling of ground water from existing wells to monitor contaminant concentration.

- Limitations

The field investigation, laboratory testing, and analysis presented in this report were prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This investigation was conducted solely for the purpose of evaluating environmental conditions of the site with respect to hydrocarbon product, CAM metals concentration, volatile and semi-volatile organics, and chlorinated phenol contamination in the vicinity of the subject property. No soil engineering or geotechnical references are implied or should be inferred. Evaluation of the geologic conditions at the site for the purpose of this investigation is

made from a limited number of available data points. Subsurface conditions may vary away from the available data points. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of study.

The information researched during our historical review to date was made available from government agencies and select interviews with relevant parties. We cannot make any assurances concerning the completeness of the data presented to us.

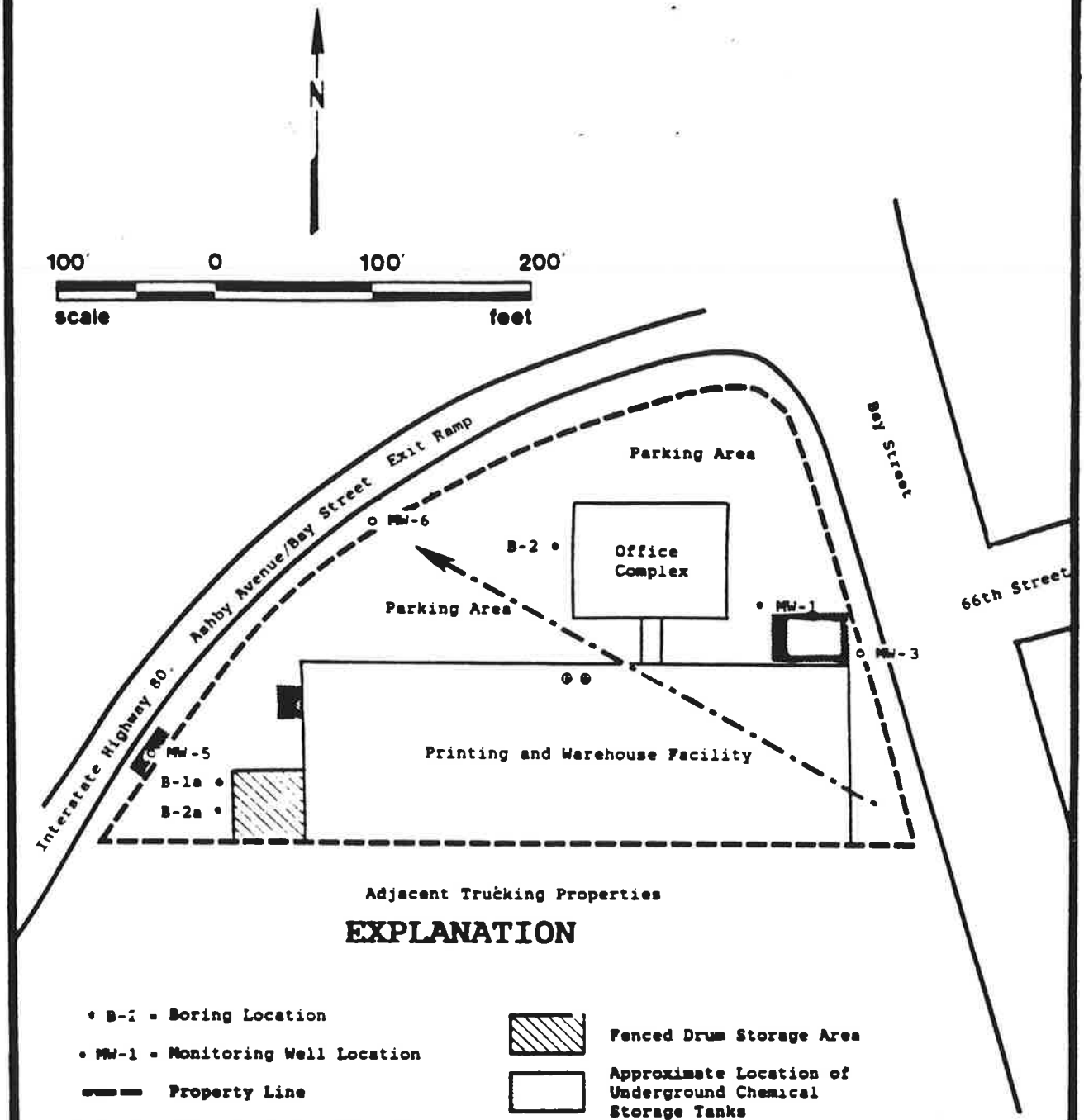
If you have any questions regarding this report, please contact the undersigned. We appreciate this opportunity to be of service.

Sincerely,

L & W ENVIRONMENTAL SERVICES, INC.

Jack Arendt
Project Manager
R.G. 4322





EXPLANATION

- B-1 = Boring Location
- MW-1 = Monitoring Well Location
- Property Line
- MW-3 = Approximate Location of Proposed Monitoring Well
- Approximate Location of Sumps
- Fenced Drum Storage Area
- Approximate Location of Underground Chemical Storage Tanks
- Approximate Location of Excavations
- Ground water flow direction

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SITE PLAN

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

FIGURE 1

APPENDIX

Blows per 1/2 Ft.	Sample Numbers	USCS	Depth in Feet	DESCRIPTION	Well Const.
			0	0.2 ft. Asphalt	NEAT CEMENT
		GW	1	Brown, damp, loose, gravel and SAND Gray-brown, damp to moist, medium-dense, gravel (concrete fragments) cobbles and SAND	
			2		BENTONITE SEAL / BLANK CASING
			3		
			4		
15			5		
19	S-B1-5.5	CL		Blue-gray, damp to moist, firm to stiff, gravely CLAY OVA = 340	
25			6		
			7		
			8		
			9	Gray and white (salt & pepper), moist to wet, medium dense, very-fine-grained SAND with shell fragments OVA = 370	
		SM			
5			10		
12	S-B1-10.5			GROUND WATER	
18			11		
			12		
			13		
			14		
			15		NO. 3 SAND / SLOTTED CASING
2					
3					
19	S-B1-16	CL	16	Light-gray and dark blue gray, saturated, stiff, CLAY with wood fibers and greasy, hydrocarbon and transformer odor OVA = 640	
			17		
			18		
			19		
		CL/SM	20	Light gray and blue gray, saturated, firm to stiff CLAY with sand and wood fragments OVA = 520	

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LOG OF BORING B-1

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 1a

Blows per 1/2 Ft.	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
14 14 17	S-B1-20.5	CL/SM	- 20	Light gray and blue gray, saturated, firm to stiff **CLAY** with sand and wood fragments OVA = 520	NO. 3 SAND SLOTTED CASING
			- 21		
			- 22	wood fragments common	
			- 23		
			- 24		
10 13 30	S-B1-25.5	CL	- 25	Brown to tan, wet, stiff **CLAY** (few wood fibers) OVA = 350	BLANK CASING
			- 26		
			- 27		
			- 28		
			- 29		
		CL	- 30	Brown to tan, saturated, stiff **CLAY**	
5 11 32	S-B1-30.5	SM	- 31	Light-gray, saturated, medium-dense, silty, very-fine-grained **SAND**	
			- 32		
			- 33		
			- 34		
			- 35		
			- 36		
			- 37		
			- 38		
			- 39		
			- 40		

Total Depth: 31.5 feet
Ground water encountered at 10.7 feet
Monitoring well installed 7-5-89
0 - 5.0 ft. blank casing
5.0 - 25.0 ft. slotted casing
25.0 - 30.0 ft. blank casing
Well developed on 7-6-89



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LOG OF BORING B-1

Mike Roberts Color Productions
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Emeryville, California

PROJECT NUMBER: 9077

PLATE 1b

Blows per 1/2 ft.	Sample Numbers	USCS	Depth in Feet	DESCRIPTION	Well Const.
		GW	0	0.2 ft. Asphalt Gray-brown, damp, loose, sandy **GRAVEL**	BACKFILLED WITH PORTLAND CEMENT ON JULY 5, 1989
			1		
		CL	2	Blue-gray, moist, soft, silty, sandy, **CLAY** with some organics	
			3		
			4		
			5	Blue-gray, moist, soft, silty, sandy, **CLAY** with some organics OVA = 0	
7 8 8	S-B2-6		6		
			7		
			8		
			9		
12 45 31	S-B2-10	SM	10	Blue-gray and light-gray, moist to wet, loose silty, clayey, fine to medium grained **SAND** slight hydrocarbon odor OVA = 40	
		SM	11	**GROUND WATER** Light-gray to gray, saturated, medium dense, silty, **SAND**	
			12		
			13		
			14		
10 14 17	S-B2-16	CL	15		
			16	Light-brown, saturated, soft to firm, gravely **CLAY**, trace hydrocarbon odor OVA = 540	
			17		
			18		
			19		
		CL	20	Blue gray, saturated, very soft **CLAY** OVA = 320	

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LOG OF BORING B-2

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 2a

Blows per 1/2 Ft.	SAMPLE NUMBER	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
6 5 8	S-B2-20.5	CL	- 20 - 21	Blue gray, saturated, very soft CLAY OVA = 320	
			- 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40	Total Depth: 21.5 feet Ground water encountered at 11.5 feet No caving Backfilled with portland cement 7-5-89	

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LOG OF BORING B-2

Mike Roberts Color Productions
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Emeryville, California

PROJECT NUMBER: 9077

PLATE 2b

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
			- 0	**Fill**	
			- 1	Chunks of concrete, brick and debris	
			- 2		
		SM	- 3	Dark gray, damp, medium dense, silty **SAND** with brick and debris	
10 8 7	S-B3- 5.0		- 4	**Native bay mud & fill debris**	
		SC	- 5	Red-brown and gray, dense, silty **CLAYEY SAND** with brick and debris OVA = 50	
			- 6		
			- 7		
			- 8	GW encountered	
		CL	- 9	Gray-blue gray, wet, soft, silty **CLAY** with gravel	
2 2 2	NR		-10		
			-11		
	S-B3- 12	CL	-12	Blue-gray, wet, soft, silty, gravely **CLAY** with gravel OVA = 150	
			-13	**BAY MUD WITH FILL**	
			-14		
Push for 18"	S-B3- 15	CL	-15	Blue, green, gray and black, wet, soft, gravely **CLAY** 1/3 sample saturated with black, old HC oil OVA = 260	
			-16		
			-17		
			-18		
			-19	**OLDER BAY MUD**	
Push for 18	S-B3- 20	CL	-20	Light brown-tan, wet, stiff, sandy **CLAY** OVA = 260	

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LOG OF BORING B-3

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 3a

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
			-20	Light brown-tan, wet, stiff, sandy CLAY OVA = 260	
			-21		
			-22		
			-23		
			-24		
Push for 12" 1 for 6"	S-B3-25	CL	-25	Light brown-tan, wet, stiff, sandy CLAY	
			-26		
			-27		
			-28		
			-29	Total Depth: 26.0 feet Ground water encountered at 9.8 feet Monitoring well installed 8-23-89 0 - 5.0 ft. blank casing 5.0 - 25.0 ft. slotted casing Well developed on 9-7-89	
			-30		
			-31		
			-32		
			-33		
			-34		
			-35		
			-36		
			-37		
			-38		
			-39		
			-40		

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LOG OF BORING B-3

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 3b

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
		GP	- 0	FILL Light brown, damp, loose to medium dense, silty, gravely SAND/sandy GRAVEL	
			- 1		
			- 2		
			- 3		
12 26 21	S-B4- 4.5	GP	- 4	Light brown, damp, loose to medium dense, gravelly SAND, sandy gravel OVA = 140	
			- 5		
			- 6		
			- 7	(Hard drilling)	
			- 8		
		SP	- 9	Light gray to light brown, damp, dense, gravel and SAND	
5 7 5	S-B4- 10	CL	-10	Blue-gray and brown, moist, wet, dense, gravelly, sandy CLAY OVA = 320 Ground water encountered	
			-11		
			-12		
			-13		
			-14		
6 5 3	S-B4- 14.5	GP	-15	Blue-gray, wet, saturated, dense, sandy, clayey GRAVEL, tr. old, black HC OVA = 480	
			-16	Refusal at 16'	
			-17		
			-18	Lost lead auger in hole - abandoned hole Hole caving at 6' - 9'	
			-19	Total Depth: 16.0 feet	
			-20	Ground water encountered at 10.5 ft.	

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LOG OF BORING B-4

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 4a

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
		GP	- 0	**FILL** Light gray-tan, dry to damp, loose, silty, sandy **GRAVEL**	
			- 1		
			- 2		
		GC	- 3	Light gray-gray brown, damp, firm, silty, gravely **CLAY**	
			- 4		
			- 5		
8 21 13	S-B5- 6.0	SM	- 6	Light gray and medium gray (S & P), damp, moist, mud, dense, silty, finegrained **SAND** OVM = 190	
			- 7		
			- 8		
		SM	- 9	Gray, moist, medium dense, silty **SAND**	
8 24 28	S-B5- 4.0	GP	-10	**GRAVEL** and debris	
			-11	Groundwater encountered OVM = 300	
			-12	(Oil/grease common in sample shoe)	
			-13		
			-14		
1 2 1	S-B5- 15.5	CL	-15	Dark gray, moist-wet, soft, silty **CLAY** Sampler covered with oil and grease	
			-16	REGISTERED GEOLOGIST JON (JACK) ARENDT R.G 4322 Exp. 6-30-90 STATE OF CALIFORNIA	
			-17	OVM = 350	
			-18		
			-19		
			-20	Dark gray, wet, soft to firm silty **CLAY**	

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LOG OF BORING B-5

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PROJECT NUMBER: 9077

PLATE 5a

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
11 12 15	no recovery	CL	-20	Dark gray, wet, soft-firm, silty CLAY	
			-21		
		CL	-22		
	S-B5-22.5			Dark gray as above and light brown-tan, moist-wet, stiff, silty CLAY OVA = 430	
			-23		
			-24		
10 11 10	S-B5-25.5		-25		
		CL	-26	Light brown, tan, wet, stiff, silty CLAY	
				OVA= 430	
			-27		
			-28		
			-29		
			-30	Total Depth: 26.5 feet Ground water encountered at 10.3 ft. Monitoring well installed 8-31-89 0 - 5.0 ft. blank casing 5.0 - 25.0 ft. slotted casing Well developed on 9-7-89	
			-31		
			-32		
			-33		
			-34		
			-35		
			-36		
			-37		
			-38		
			-39		
			-40		

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LOG OF BORING B-5

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Emeryville, California

PROJECT NUMBER: 9077

PLATE 5b

BLOWS PER FOOT	SAMPLE NUMBER	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
		GP	- 0	**FILL** Light gray, damp-moist, loose, medium dense, silty, sandy, **GRAVEL**	
			- 1		
			- 2		
		GC	- 3	Gray-brown, damp, loose-medium dense, sandy, clayey **GRAVEL**	
			- 4		
			- 5		
			- 6		
			- 7		
		CL	- 8	Light gray-dark gray, moist, dense, gravely, sandy **CLAY**	
			- 9		
		CL	-10	Blue-gray, moist-wet, soft-firm, gravely, sandy **CLAY**	
			-11		
			-12		
			-13		
			-14		
		CL	-15	Blue-gray, wet, soft-firm, sandy **CLAY**	
		CL	-16	Blue-gray, wet, soft-firm, sandy **CLAY**	
			-17		
			-18		
		CL	-19	Blue-gray and tan, wet, soft-stiff, sandy **CLAY**	
			-20		

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LOG OF BORING B-6

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 6a

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
10 21 15	S-B6- 20.5	CL	-20	Light brown-tan, wet, stiff, sandy CLAY OVA = 410	
			-21		
			-22		
			-23		
			-24		
8 10 15	S-B6- 25.0	CL	-25	Light brown-tan, wet, stiff-very stiff, sandy CLAY	
			-26	OVA = 350	
			-27		
			-28		
			-29		
			-30	Total Depth: 26.5 feet Ground water encountered at 10.5 ft. Monitoring well installed on 8-31-89 0 - 5.0 ft. blank casing 5.0 - 25.0 ft. slotted casing Well developed on 9-7-89	
			-31		
			-32		
			-33		
			-34		
			-35		
			-36		
			-37		
			-38		
			-39		
			-40		

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LOG OF BORING B-6

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

PLATE 6b

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE 415/222-3001 FAX 415 222 1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 04/26/89
Reported: 06/07/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015
Oil & Grease Analysis: By Standard Method 503D
mg/kg

Lab ID	Client ID	TPH as Diesel	TPH as Gasoline	Oil & Grease	PCB's
70800-1	IS1- 3.5'	46	ND<10	1915	0.4
70800-2	IS1- 7.0'	200	ND<10	3390	0.7
70800-3	IS1-10.5'	ND<10	300	2185	ND<0.5
70800-4	IS2- 3.0'	50	ND<10	1305	0.2
70800-5	IS2- 8.5'	ND<10	ND<10	36,535	ND<0.5

QA/QC: Spike Recovery for Gasoline: 107%
Spike Recovery for Oil & Grease: 99%
Spike Recovery for PCB's: 110%

Detection Limit for TPH: 10
Detection Limit for Oil & Grease: 50
Detection Limit for PCB: 0.5

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX 415 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 01/05/89
Reported: 01/20/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Chloro -methane	Bromo -methane	Vinyl Chloride	Chloro -ethane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Methylene Chloride	1,1- dichloro -ethene	1,1- dichloro -ethane	Trans-1,2 dichloro -ethene	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

QA/QC: Spike Recovery Average: 109%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-3251

Mike Roberts Color Productions
Job No. 70800

Lab ID	Client ID	Chloro -form	1,2- dichloro -ethane	1,1,1- Trichloro -ethene	Carbon Tetra- Chloride	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	0.5	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Bromo- dichloro -methane	1,2- dichloro -propene	Tri- Chloro -ethene	Dibromo -chloro -methane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	0.3	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	<0.15	ND<0.15	0.15

Lab ID	Client ID	1,1,2- Trichloro -ethane	Trans-1,3 dichloro -propene	2-Chloro -ethyl Vinyl ether	Bromo -form	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Tetra- chloro- -ethene	1,1,2,2- tetra- chloro -ethane	Chloro- benzene	1,3- dichloro -benzene	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	0.11	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	1,2- dichloro -benzene	1,4- dichloro -benzene	Dichloro -difluoro methane	Trichloro- fluoro- methane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.03	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Precision Analytical Laboratory, Inc.

[illegible] PHONE 415.222 3002 [illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 07/05/89
Reported: 07/18/89
Job #: 70919

Attn: George Wilson
Mike Roberts Color Productions
7707 Bay Street
Emeryville, CA.

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70919-1	70919-2	70919-3	70919-4	70919-5		
Client ID:	S-B1-5.5	S-B1-10.5	S-B1-16	S-B1-20.5	S-B1-25.5		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	88
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	98
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	76
Mo	ND<1.0	ND<1.0	2.4	ND<1.0	ND<1.0	1.0	84
Sb	ND<1.0	ND<1.0	4	ND<1.0	ND<1.0	1.0	70
Zn	94	5.4	6040	106	27	0.15	85
Cd	1.4	0.6	12	2.4	2.0	0.3	86
Pb	61	3	160	77	8.0	1.1	84
Co	5.7	2.6	12.4	4.5	8.0	0.5	82
Ni	14	12.7	30	19	24	0.65	80
Cr	13	12.5	42	15	10	0.15	82
V	15	7	32	12	12	0.1	88
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	88
Cu	28	4	153	23	13	0.1	90
Ag	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	77
Ba	92	21	78	61	67	0.1	82

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

2winds LAKESIDE DRIVE RICHMOND CA 94804 PHONE (415) 222-3002 FAX (415) 222-3139

Mike Roberts Color Productions
Job No. 70919

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70919-6	70919-7	70919-8	70919-9	70919-10		
Client ID:	S-B1-30.5	S-B2-6.0	S-B2-10	S-B2-16	S-B2-20.5		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	88
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	98
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	76
Mo	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.0	84
Sb	ND<1.0	1.2	ND<1.0	1.2	ND<1.0	1.0	70
Zn	15	67	532	23	11	0.15	85
Cd	1.2	1.6	ND<0.3	2.4	1.4	0.3	86
Pb	4.5	167	1360	11	8.7	1.1	84
Co	3.6	5	2.7	12	1.9	0.5	82
Ni	22	18.5	12.5	79	16.6	0.65	80
Cr	9.9	11.8	12.7	43	7.8	0.15	82
V	6.7	9.7	13	10	17	0.1	88
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	88
Cu	7.4	92	22.5	10	9.0	0.1	90
Ag	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	77
Ba	23	109	41	95	35	0.1	82

Precision Analytical Laboratory, Inc.

4130 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 223-3002 FAX 4 5 223 [illegible]

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 07/05/89
Reported: 07/20/89
Job No #: 70919

Attn: George Wilson
Mike Roberts Color Production
7707 Bay Street
Emeryville, CA.

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Chloro -methane	Bromo -methane	Vinyl Chloride	Chloro -ethane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-[illegible]	ND<0.[illegible]	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-[illegible]	ND<0.[illegible]	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Methylene Chloride	1,1- dichloro -ethene	1,1- dichloro -ethane	Trans-1,2 dichloro -ethene	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

QA/QC: Spike Recovery for 1,1,1-trichloroethane: 115%

Surinder Sidhu
Senior Chemist

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1657

Mike Roberts Color Productions
Job No. 70919

Lab ID	Client ID	Chloro -form	1,2- Dichloro -ethane	1,1,1- Trichloro -ethene	Carbon Tetra- Chloride	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Bromo- dichloro -methane	1,2- dichloro -propene	Tri- Chloro -ethene	Dibromo -chloro -methane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,1,2- Trichloro -ethane	Trans-1,3 dichloro -propene	2-Chloro -ethyl Vinyl ether	Tetra- chloro -ethene	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Precision Analytical Laboratory, Inc.

2736 LAKESIDE DRIVE RICHMOND CA 94804 PHONE 415 222 3292 FAX 415 222 92

Mike Roberts Color Productions
Job No. 70919

Lab ID	Client ID	1,1,2,2 Tetrachloro -ethane Chlorobenzene	Dichloro -difluoro methane	Trichloro- fluoro- methane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	0.03

Precision Analytical Laboratory, Inc.

[illegible] LAKESIDE DRIVE RICHMOND, CA [illegible] PHONE (415) 222-3002 FAX [illegible]

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 07/05/89
Reported: 07/20/89
Job No #: 70919

Attn: George Wilson
Mike Roberts Color Productions
7707 Bay Street
Emeryville, CA.

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015
Oil & Grease Analysis: By Standard Method 503D
Polychlorinated BiPhenyls Analysis: By EPA 8080
mg/kg

Lab ID	Client ID	TPH as Diesel	TPH as Gasoline	Oil & Grease	PCB's
70919-1	S-B1- 5.5	12	ND<10	845	ND<0.5
70919-2	S-B1-10.5	ND<10	ND<10	ND<50	ND<0.5
70919-3	S-B1-16	63	ND<10	1600	ND<0.5
70919-4	S-B1-20.5	ND<10	ND<10	80	ND<0.5
70919-5	S-B1-25.5	ND<10	ND<10	95	ND<0.5
70919-6	S-B1-30.5	ND<10	ND<10	ND<50	ND<0.5
70919-7	S-B2- 6.0	19	ND<10	1160	ND<0.5
70919-8	S-B2-10	172	20	14,900	ND<0.5
70919-9	S-B2-16	ND<10	ND<10	ND<50	ND<0.5
70919-10	S-B2-20.5	ND<10	ND<10	ND<50	ND<0.5

QA/QC: Spike Pecovery for Diesel: 83%
Spike Recovery for Gasoline: 99%
Spike Recovery for Oil & Grease: 102%
Spike Recovery for PCB's: 98%

Detection Limit for Diesel: 10, #8 = 100
Detection Limit for Oil & Grease: 50
Detection Limit for Gasoline: 10
Detection Limit for PCB: 0.5

Surinder Sidhu
Senior Chemist

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 9480c PHONE (415)-222-3002 FAX (415) 222-'25

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/21/89
Reported: 09/18/89
Job No #: 71024

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Liquid

Total Petroleum Hydrocarbon Analysis
By Modified Method 8015
mg/kg

Lab ID	Client ID	Diesel	Gasoline	MDL
71024-1	Sump #2 Liquid	ND<10	ND<10	10
71024-2	Sump #3 Liquid	200	ND<10	10

QA/QC: Spike Recovery for Diesel: 94%
Spike Recovery for Gasoline: 88%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/28/89
Reported: 09/18/89
Job No #: 71042

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Total Petroleum Hydrocarbon Analysis
By Modified Method 8015
mg/kg

Lab ID	Client ID	Diesel	Gasoline	MDL
71042-1	S-B3-5	30	ND<10	10
71042-2	S-B3-12	20	ND<10	10
71042-3	S-B3-15	260	120	10
71042-4	S-B3-20	ND<10	ND<10	10
71042-5	S-B3-25	ND<10	ND<10	10
71042-6	S-B4-45	ND<10	ND<10	10
71042-7	S-B4-10	170	ND<10	10
71042-8	S-B4-14.5'	ND<10	ND<10	10

QA/QC: Spike Recovery for Diesel: 86%
Spike Recovery for Gasoline: 106%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/28/89
Reported: 09/18/89
Job No #: 71042

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Lab ID	Client ID	pH of Leach	Sulfide	Cyanide
71042-1	S-B3-5	8.1	Negative	ND<1.0 mg/kg
71042-2	S-B3-12	8.8	Negative	ND<1.0 mg/kg
71042-3	S-B3-15	9.3	2,320 mg/kg	ND<1.0 mg/kg
71042-4	S-B3-20	8.3	Negative	ND<1.0 mg/kg
71042-5	S-B3-25	8.7	Negative	ND<1.0 mg/kg
71042-6	S-B4-45	7.7	Negative	ND<1.0 mg/kg
71042-7	S-B4-10	8.4	13.0 mg/kg	ND<1.0 mg/kg
71042-8	S-B4-14.5'	9.0	5.0 mg/kg	ND<1.0 mg/kg

Methods:
pH Analysis; By EPA 9045
Sulfide Analysis; By EPA 9030
Cyanide Analysis; By EPA 9010

MDL: Method detection limit; Compound below this level would not be detected.

Detection limit for Sulfide: 1.0
Detection limit for Cyanide: 1.0

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/28/89
Reported: 09/18/89
Job No #: 71042

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Oil & Grease Analysis;
By Standard Method 16th Edition 503D
mg/kg

Lab ID	Client ID	Oil & Grease	MDL
71042-1	S-B3-5	1,845	20
71042-2	S-B3-12	95	20
71042-3	S-B3-15	625	20
71042-4	S-B3-20	ND<20	20
71042-5	S-B3-25	20	20
71042-6	S-B4-45	6,685	20
71042-7	S-B4-10	25,470	20
71042-8	S-B4-14.5'	ND<20	20

QA/QC: Spike Recovery for Oil & Grease: 81%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.

4130 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/18/89
Reported: 08/25/89
Job No. #: 71021

Attn: George Wilson
L & W Environmental
2111 Jennings Street
San Francisco CA. 94124

Project: Mike Roberts Color Productions

Lab ID	71021-1	71021-2	71021-3	
Client ID	R-D1-0	R-D2-0	R-D3-0	
Analysis:				**MDL**
pH	5.5	8.0	8.1	N/A
Cyanide	ND<1.0 mg/kg	ND<1.0 mg/kg	ND<1.0 mg/kg	1.0
Sulfide	Negative (Spot test)	Negative (Spot test)	Negative (Spot test)	N/A
Halogenated	ND<0.3 mg/kg	ND<0.3 mg/kg	ND<0.3 mg/kg	0.3
PCB's	ND<0.2 mg/kg	ND<0.2 mg/kg	ND<0.2 mg/kg	0.2
Diesel	N/A	N/A	N/A	N/A

QA/QC: Spike Recovery for PCB's: 100 %
Spike Recovery for Diesel: 113 %
Spike Recovery for Gasoline: 92 %
Spike Recovery for Halogenated: 75 %

MDL: Method detection limit: Compound below this level would not be detected.

METHODS:

Sulfide: By EPA 9030
Cyanide: By EPA 9010
Halogenated: By EPA 8010
TPH: By EPA Modified 8015
PCB'S: By EPA 8080

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1671

L & W Environmental
Job No. 71021

Project: Mike Roberts Color Productions

Lab ID	71021-4	71021-5	
Client ID	R-D4-0	ST1-3NE	
Analysis:			**MDL**
pH	5.4	8.5	N/A
Cyanide	ND<1.0 mg/kg	ND<1.0 mg/kg	1.0
Sulfide	Negative (Spot test)	Negative (Spot test)	N/A
Halogenated	ND<0.3 mg/kg	ND<0.3 mg/kg	0.3
PCB's	ND<0.2 mg/kg	ND<0.2 mg/kg	0.2
Diesel	N/A	ND<10 mg/kg	10

Precision Analytical Laboratory, Inc.

4 [illegible] LAKESIDE DRIVE RICHMOND CA [illegible] PHONE (415) 222-3[illegible] FAX (415) 222-[illegible]

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/18/89
Reported: 08/25/89
Job #: 71021

Attn: George Wilson
L & W Environmental
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	71021-1	71021-2	71021-3	71021-4	71021-5		
Client ID:	R-D1-0	R-D2-0	R-D3-0	R-D4-0	ST1-3NE		
METAL						MDL	% SPIKE RECOVERY
.1	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	80
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	80
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	86
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	86
Mo	ND<1.0	ND<1.0	ND<1.0	9.6	ND<1.0	1.0	92
Sb	ND<1.0	ND<1.0	9.2	42.5	1.9	1.0	94
Zn	32.5	840	2270	9930	25.9	0.15	82
Cd	3.6	5.1	4.2	25.7	0.90	0.3	80
Pb	10.5	46.0	155	33.6	26.5	1.1	86
Co	0.62	1.1	0.68	5.6	5.4	0.5	84
Ni	9.2	63.5	30.4	43.4	14.7	0.65	88
Cr	18.4	85.8	330	21.0	6.0	0.15	82
V	ND<0.15	0.52	0.60	19.1	11.3	0.1	86
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	84
Cu	31.0	81.5	18.0	40	10.5	0.1	88
Ag	345	95	143	ND<0.10	ND<0.10	0.1	74
Ba	2.1	3.6	2.2	1.5	110	0.1	88

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4130 LAKESIDE DRIVE RICHMOND CA 94804 PHONE (415)-222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/21/89
Reported: 08/28/89
Job #: 71022

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production
Matrix: Water

Analysis Method EPA 6010
Prep Method EPA 3010
mg/l

Lab ID #: 71022-1
Client ID: Sump Well (Back)

METAL		MDL	% SPIKE RECOVERY
Tl	ND<0.088	0.088	72
As	ND<0.088	0.088	74
Hg	ND<0.200	0.200	74
Se	ND<0.200	0.200	70
Mo	ND<0.040	0.040	74
Sb	ND<0.040	0.040	88
Zn	0.51	0.006	78
Cd	ND<0.012	0.012	68
Pb	0.103	0.044	72
Co	ND<0.020	0.020	74
Ni	ND<0.026	0.026	72
Cr	ND<0.006	0.006	74
V	ND<0.004	0.004	80
Be	ND<0.001	0.001	72
Cu	0.92	0.004	96
Ag	ND<0.004	0.004	62
Ba	0.023	0.005	82

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 04/26/89
Reported: 06/07/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Productions

Aromatic Volatile Hydrocarbon Analysis:
EPA Method 8020
mg/kg

Lab ID	Client ID	Benzene	Toluene	MDL
70800-1	IS1- 3.5'	ND<0.03	0.06	0.03
70800-2	IS1- 7.0'	ND<0.03	0.20	0.03
70800-3	IS1-10.5'	0.24	1.3	0.06
70800-4	IS2- 3.0'	ND<0.03	0.25	0.03
70800-5	IS2- 8.5'	0.14	0.10	0.03

Lab ID	Client ID	Ethylbenzene	Xylene	MDL
70800-1	IS1- 3.5'	ND<0.03	0.04	0.03
70800-2	IS1- 7.0'	ND<0.03	0.07	0.03
70800-3	IS1-10.5'	1.8	11	0.06
70800-4	IS2- 3.0'	ND<0.03	0.10	0.03
70800-5	IS2- 8.5'	1.4	4.5	0.03

QA/QC: Spike Recovery for BTX Average: 125%

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE. RICHMOND CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 04/26/89
Reported: 06/05/89
Job #: 70800

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70800-1	70800-2	70800-3	70800-4	70800-5		
Client ID:	IS1-3.5'	IS1-7.0'	IS1-10.5'	IS2-3.0'	IS2-8.5'		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	68
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	80
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	NA
Mo	1.2	ND<1.0	3.7	1.2	ND<1.0	1.0	NA
Sb	6.5	1.4	1.6	ND<1.0	ND<1.0	1.0	NA
Zn	200	48.9	5400	270	22.9	0.15	68
Cd	4.1	4.2	10.2	3.2	1.5	0.3	70
Pb	100	130	4300	90	5.3	1.1	78
Co	5.6	6.4	11.4	6.0	2.8	0.5	70
Ni	32.1	31.5	42.6	30.9	15.5	0.65	NA
Cr	20.1	21.5	63.8	18.5	6.6	0.15	68
V	15.4	17.3	17.3	15.6	6.7	0.1	74
Be	0.05	ND<0.025	ND<0.025	0.025	ND<0.025	0.025	88
Cu	70	104	1042	56.7	13.8	0.1	82
Ag	15.2	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	70
Ba	110	130	255	90	35.7	0.1	86

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: SUMP-1 WELL(BACK)
Sample Received: 08/21/89
Sample Analyzed: 08/22/89
Sample Matrix: WATER

Client: PRECISION ANALYTICAL
Client Ref. No.: NONE
Lab Client Code: 77604
Lab No.: 8908230-01A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: SOIL-3
Sample Received: 08/22/89
Sample Analyzed: 08/28/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-01A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	20
Bromomethane	74-83-9	ND	8
Vinyl chloride	75-01-4	ND	8
Chloroethane	75-00-3	ND	20
Methylene chloride	75-09-2	ND	20
Trichlorofluoromethane	75-69-4	ND	8
1,1-dichloroethene	75-35-4	ND	8
1,1-dichloroethane	75-35-3	ND	8
Trans-1,2-dichloroethene	156-60-5	ND	8
Chloroform	67-66-3	ND	8
1,2-dichloroethane	107-06-2	ND	20
1,1,1-trichloroethane	71-55-6	ND	8
Carbon tetrachloride	56-23-5	ND	8
Bromodichloromethane	75-27-4	ND	8
1,2-dichloropropane	78-87-5	ND	20
Cis-1,3-dichloropropene	10061-01-5	ND	20
Trichloroethene	79-01-6	ND	20
Benzene	71-43-2	ND	8
Dibromochloromethane	124-48-1	ND	20
1,1,2-trichloroethane	79-00-5	ND	20
Trans-1,3-dichloropropene	10061-02-6	ND	20
2-chloroethylvinylether	100-75-8	ND	40
Bromoform	75-25-2	ND	20
1,1,2,2-tetrachloroethane	79-34-5	ND	20
Tetrachloroethene	127-18-4	ND	20
Toluene	108-88-3	80	8
Chlorobenzene	108-90-7	ND	8
Ethylbenzene	100-41-4	20	20
1,3-dichlorobenzene	541-73-7	ND	20
1,2-dichlorobenzene	95-50-1	ND	20
1,4-dichlorobenzene	106-46-7	ND	20
Freon 113	76-13-1	ND	8
Total Xylenes	1330-20-7	360	20
Acetone	67-64-1	ND	40
2-Butanone	78-93-3	ND	40
4-Methyl-2-pentanone	108-10-1	ND	40
2-Hexanone	591-78-6	ND	40
Vinyl acetate	108-05-4	ND	20
Carbon disulfide	75-15-0	ND	20
Styrene	100-42-5	ND	20

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: SOIL-4
Sample Received: 08/22/89
Sample Analyzed: 08/28/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-02A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	8
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	8
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	4
1,1-dichloroethene	75-35-4	ND	4
1,1-dichloroethane	75-35-3	ND	4
Trans-1,2-dichloroethene	156-60-5	ND	4
Chloroform	67-66-3	ND	4
1,2-dichloroethane	107-06-2	ND	8
1,1,1-trichloroethane	71-55-6	ND	4
Carbon tetrachloride	56-23-5	ND	4
Bromodichloromethane	75-27-4	ND	4
1,2-dichloropropane	78-87-5	ND	8
Cis-1,3-dichloropropene	10061-01-5	ND	8
Trichloroethene	79-01-6	ND	10
Benzene	71-43-2	ND	4
Dibromochloromethane	124-48-1	ND	8
1,1,2-trichloroethane	79-00-5	ND	8
Trans-1,3-dichloropropene	10061-02-6	ND	8
2-chloroethylvinylether	100-75-8	ND	20
Bromoform	75-25-2	ND	8
1,1,2,2-tetrachloroethane	79-34-5	ND	10
Tetrachloroethene	127-18-4	ND	8
Toluene	108-88-3	ND	4
Chlorobenzene	108-90-7	ND	4
Ethylbenzene	100-41-4	20	10
1,3-dichlorobenzene	541-73-7	ND	10
1,2-dichlorobenzene	95-50-1	ND	10
1,4-dichlorobenzene	106-46-7	ND	10
Freon 113	76-13-1	ND	4
Total Xylenes	1330-20-7	77	8
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	8
Styrene	100-42-5	ND	8

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS

Sample I.D.: METHOD BLANK
Sample Received: 08/22/89
Sample Analyzed: 08//28/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-05A

Compound	CAS #	Concentration mg/kg	Limit of Detection mg/kg
Chloromethane	74-87-3	ND	0.4
Bromomethane	74-83-9	ND	0.2
Vinyl chloride	75-01-4	ND	0.2
Chloroethane	75-00-3	ND	0.4
Methylene chloride	75-09-2	ND	0.6
Trichlorofluoromethane	75-69-4	ND	0.2
1,1-dichloroethene	75-35-4	ND	0.2
1,1-dichloroethane	75-35-3	ND	0.2
Trans-1,2-dichloroethene	156-60-5	ND	0.2
Chloroform	67-66-3	ND	0.2
1,2-dichloroethane	107-06-2	ND	0.4
1,1,1-trichloroethane	71-55-6	ND	0.2
Carbon tetrachloride	56-23-5	ND	0.2
Bromodichloromethane	75-27-4	ND	0.2
1,2-dichloropropane	78-87-5	ND	0.4
Cis-1,3-dichloropropene	10061-01-5	ND	0.4
Trichloroethene	79-01-6	ND	0.5
Benzene	71-43-2	ND	0.2
Dibromochloromethane	124-48-1	ND	0.4
1,1,2-trichloroethane	79-00-5	ND	0.4
Trans-1,3-dichloropropene	10061-02-6	ND	0.4
2-chloroethylvinylether	100-75-8	ND	1
Bromoform	75-25-2	ND	0.4
1,1,2,2-tetrachloroethane	79-34-5	ND	0.6
Tetrachloroethene	127-18-4	ND	0.4
Toluene	108-88-3	ND	0.2
Chlorobenzene	108-90-7	ND	0.2
Ethylbenzene	100-41-4	ND	0.6
1,3-dichlorobenzene	541-73-7	ND	0.6
1,2-dichlorobenzene	95-50-1	ND	0.6
1,4-dichlorobenzene	106-46-7	ND	0.6
Freon 113	76-13-1	ND	0.2
Total Xylenes	1330-20-7	ND	0.4
Acetone	67-64-1	ND	1
2-Butanone	78-93-3	ND	1
4-Methyl-2-pentanone	108-10-1	ND	1
2-Hexanone	591-78-6	ND	1
Vinyl acetate	108-05-4	ND	0.6
Carbon disulfide	75-15-0	ND	0.4
Styrene	100-42-5	ND	0.4

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: SOIL-5
Sample Received: 08/22/89
Sample Analyzed: 08/23/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-03A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
is-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: SOIL-2
Sample Received: 08/22/89
Sample Analyzed: 08/23/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-04A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
~is-1,3-dichloropropene	10061-01-5	ND	3
richloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	10	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	18	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	110	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

J = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: METHOD BLANK
Sample Received: 08/22/89
Sample Analyzed: 08/23/89
Sample Matrix: SOIL

Client: PRECISION ANALYTICAL
Client Ref. No.: 71024
Lab Client Code: 77604
Lab No.: 8908247-05A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
`is-1,3-dichloropropene	10061-01-5	ND	3
.richloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	10)-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

.D = Not detected at or above limit of detection

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE. RICHMOND. CA 94806 PHONE (415) 222-3002 FAX (415) 222-125'

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/31/89
Reported: 09/25/89
Job No #: 71049

Attn: George Wilson
L & W Environmental Services
2111 Jennings St.
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

mg/kg

Lab ID	Client ID	Oil & Grease	pH	Sulfide	Cyanide
71049-1	SB-5- 6.0	330	8.0	ND<1.0	ND<1.0
71049-2	SB-5-11.0	3580	8.4	10.0	ND<1.0
71049-3	SB-5-15.5	1200	9.2	10.0	ND<1.0
71049-4	SB-5-22.5	110	9.1	ND<1.0	ND<1.0
71049-5	SB-5-25.5	115	9.0	ND<1.0	ND<1.0
71049-6	SB-6-20.5	100	8.8	ND<1.0	ND<1.0
71049-7	SB-6-25.5	190	8.6	ND<1.0	ND<1.0

QA/QC: Spike Recovery for Oil & Grease: 77%
Spike Recovery for Oil & Grease: 84%

MDL: Method detection limit; Compound below this level would not be detected.

Detection limit for Oil & Grease: 20
Detection limit for Sulfide: 1.0
Detection limit for Cyanide: 1.0

METHODS:
Oil & Grease EPA 9071
Sulfide EPA 9030
pH EPA 9045
Cyanide EPA 9010

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/31/89
Reported: 09/12/89
Job No. #: 71049

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Total Petroleum Hydrocarbons Analysis:
DHS Extraction Method (LUFT)
mg/kg

Lab ID	Client ID	Diesel	Gasoline	MDL
71049-1	SB-5-6.0	ND<10	ND<10	10
71049-2	SB-5-11.0	15	25	10
71049-3	SB-5-15.5	15	20	10
71049-4	SB-5-22.5	20	ND<10	10
71049-5	SB-5-25.5	ND<10	ND<10	10
71049-6	SB-6-20.5	ND<10	ND<10	10
71049-7	SB-6-25.5	ND<10	ND<10	10

QA/QC: Spike Recovery for Diesel: 113%
Spike Recovery for Gasoline: 112%

MDL: Method detection limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 08/31/89
Reported: 09/25/89
Job No #: 71049

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Methylene Chloride	1,1-dichloro-ethene	1,1-dichloro-ethane	Trans-1,2 dichloro-ethene	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

QA/QC: Spike Recovery Average: 95%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

L & W Environmental
Job No. 71049

Lab ID	Client ID	Chloro -form	1,2- Dichloro -ethane	1,1,1- Trichloro -ethane	Carbon tetra- chloride	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Bromo- dichloro -methane	1,2- dichloro -propene	Tri- Chloro -ethene	Dibromo -chloro -methane	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,1,2- Trichloro -ethane	Trans-1,3 dichloro -propene	2-chloro -ethyl vinyl ether	Bromo -form	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Tetra- chloro -ethene	1,1,2,2 Tetra- chloro -ethane	Chloro- benzene	1,3 Dichloro -benzene	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

L & W Environmental
Job No. 71049

Lab ID	Client ID	1,2-Dichloro-benzene	1,4-Dichloro-benzene	Dichloro-difluoro methane	Trichloro-fluoro-methane	MDL
71049-1	SB-5- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	ND<0.12	ND<0.12	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Freon 113	MDL
71049-1	SB-5- 6.0	ND<0.03	0.03
71049-2	SB-5-11.0	ND<0.03	0.03
71049-3	SB-5-15.5	ND<0.12	0.12
71049-4	SB-5-22.5	ND<0.03	0.03
71049-5	SB-5-25.5	ND<0.03	0.03
71049-6	SB-6-20.5	ND<0.03	0.03
71049-7	SB-6-25.5	ND<0.03	0.03

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 08/31/89
Reported: 09/25/89
Job #: 71049

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Production
Matrix: Soil

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	71049-1	71049-2	71049-3	71049-4	71049-5		
Client ID:	SB-5 -6.0	SB-5 -11.0	SB-5 -15.5	SB-5 -22.5	SB-5 -25.5		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	90
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	84
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	94
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	74
Mo	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.0	90
Sb	ND<1.0	1.05	3.85	ND<1.0	ND<1.0	1.0	44
Zn	52.0	200	1420	58.6	42	0.15	77
Cd	0.5	2.15	4.50	3.80	3.10	0.30	79
Pb	9.7	164	1270	24	12	1.1	92
Co	3.4	8.70	8.20	40	12.3	0.50	96
Ni	18	22	26.8	151	54.0	0.65	88
Cr	13.5	15.2	22.4	19.0	21	0.15	92
V	12	23.4	20	58.3	31	0.10	84
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	94
Cu	13.3	64.0	200	44.2	22.6	0.10	98
Ag	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	0.10	102
Ba	29.2	167.1	662	1150	158	0.125	102

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Michael O'Brien
QA/QC Officer

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

L & W Environmental Services
Job No. 71049

Analysis Method 6010
Prep Method 3050
mg/kg

Lab ID #:	71049-6	71049-7		
Client ID:	SB-6 -20.5	SB-6 -25.5		
METAL			MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	2.2	90
As	ND<2.2	ND<2.2	2.2	84
Hg	ND<5.0	ND<5.0	5.0	94
Se	ND<5.0	ND<5.0	5.0	74
Mo	ND<1.0	ND<1.0	1.0	90
Sb	ND<1.0	ND<1.0	1.0	44
Zn	47	42.6	0.15	77
Cd	3.50	3.30	0.30	79
Pb	15.3	15	1.1	92
Co	19.0	11	0.50	96
Ni	48	54	0.65	88
Cr	23	25.0	0.15	92
V	53	25.0	0.10	84
Be	ND<0.025	ND<0.025	0.025	94
Cu	22.5	22.0	0.10	98
Ag	ND<0.10	ND<0.10	0.10	102
Ba	250	56.5	0.125	102

CHAIN OF STUDY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY ST.
EMERYVILLE, CA

ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS; BTX; VOC-EPA 8010; TOTAL OIL & GREASE; TETRAETHYL LEAD; REMARKS

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION
TS1-3.5'	4-26-89	1:20P	X		WEST of BARREL STORAGE
TS1-7'	4-26-89	1:35P	X		"
TS1-10.5'	4-26-89	1:50P	X		"
TS2-3'	4-26-89	2:00 P	X		NW OF BBL STORAGE
TS2-8.5'	4-26-89	2:10P	X		"
					"

RELINQUISHED BY: (Signature) Keith Jay	DATE 4-26-89 TIME 2:50PM	RECEIVED BY: (Signature)	DATE ---- TIME ----
RELINQUISHED BY: (Signature)	DATE ---- TIME ----	RECEIVED BY: (Signature)	DATE ---- TIME ----
RELINQUISHED BY: (Signature)	DATE ---- TIME ----	RECEIVED BY: (Signature)	DATE ---- TIME ----
RELINQUISHED BY: (Signature)	DATE ---- TIME ----	RECEIVED FOR LABORATORY BY: (Signature) Raj Pandher	DATE 4/26/89 TIME 2.50pm

PROJ. #: 9077

SAMPLERS: (Signature) Jack Chuck

PROJECT NAME AND ADDRESS:
Mike Roberts Color Productions
6707 Bay St, Emeryville, Ca

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	Hold requested	Oil & Grease	RCB	CAM METALS	REMARKS
S-B1-5.5	7/5/87		X		Boring B-1	X					X	X	X	X	
S-B1-10.5			X			X					X	X	X	X	
S-B1-16			X			X					X	X	X	X	
S-B1-20.5			X			X					X	X	X	X	
S-B1-25.5			X			X					X	X	X	X	
S-B1-30.5			X			X					X	X	X	X	
.															
S-B2-6.5			X			X					X	X	X	X	
S-B2-10			X			X					X	X	X	X	
S-B2-16			X			X					X	X	X	X	
S-B2-20.5			X			X					X	X	X	X	

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Jack Chuck	7/5/87 4:40	Darcy Wong	7/6/87 8:40
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME

PROJ. NO. 7077

SAMPLERS: (Signature)

PROJECT NAME AND ADDRESS:
Mike Roberts Color Production
6202 Bay Street
Emeryville, Ca

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240 & 8270	TOTAL OIL & GREASE	TETRAETHYL LEAD	PRE-DISPOSAL	REMARKS
S-B3-5.0	8-28-87	8:25A	X		Boring B-3	X		X	X		X	
S-B3-10.0	"	9:12A	X			X			X		X	
S-B3-15.0	"	8:52A	X			X			X		X	
S-B3-20.0	"	9:03A	X			X			X		X	
S-B3-25.0	"	9:10A	X			X			X		X	
S-B4-4.5	"	11:15A	X		Bor. B-4	X		X	X		X	
S-B4-10.0	"	11:32A	X			X			X		X	
S-B4-14.5	"	11:45	X			X			X		X	

RELINQUISHED BY: (Signature)	DATE 8-28-87 TIME 2:40 P	RECEIVED BY: (Signature)	DATE 8-28-87 TIME 2:40 P
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN OF CUSTODY RECORD

PROJ. NO. 7077

SAMPLERS: (Signature) Jack Chaplin

PROJECT NAME AND ADDRESS:
Mike Roberts Color Productions
6707 Bay Street
Emeryville, Calif.

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8010 & 8020	TOTAL OIL & GREASE	TETRAETHYL LEAD	Bbl-Disposal	REMARKS
S-BS-6.0	8-31-85	8:35A	X		Boring B-5	X		X	X		X	
S-BS-11.0		8:40A	X		" "	X			X		X	
S-BS-15.5		8:50A	X		" " "	X			X		X	
S-BS-22.5		9:02A	X		" "	X			X		X	
S-BS-25.5		9:15A	X		" "	X			X		X	
S-BS-25.5		1:30P	X		" B-6	X			X		X	
S-BS-25.5		1:40P	X		" B-6	X			X		X	

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	8-31-85 3:18		8-31 3:18
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE 8-31-85 TIME 3:22
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME

CHAIN OF CUSTODY RECORD

PROJ. NO. 9077

SAMPLERS: (Signature) [signature]

PROJECT NAME AND ADDRESS: Mike Lobests Color Photography
6707 Bay Street, Emeryville Ca

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION
U-MW1-11				X	Monitoring well MW-1

ANALYSIS REQUESTED

TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	PCB's	Halogenated	CAM Metals	REMARKS
X	X	X	X	X	X		3 ℓ ≠ 2 40ml (VOC)

RELINQUISHED BY: (Signature) [signature]	DATE 1/8/89 TIME 2:06	RECEIVED BY: (Signature) [signature]	DATE 7/8/89 TIME 2:00
RELINQUISHED BY: (Signature)	DATE ------- TIME	RECEIVED BY: (Signature)	DATE ------- TIME
RELINQUISHED BY: (Signature)	DATE ------- TIME	RECEIVED BY: (Signature)	DATE ------- TIME
RELINQUISHED BY: (Signature)	DATE ------- TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE ------- TIME

CHAIN OF CUSTODY RECORD

PROJ. NO. 7077

SAMPLERS: (Signature) Jack Chen

PROJECT MGR AND ADDRESS:
Mike Roberts Color Productions
6707 Bay Street
Emeryville Ca

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8010 & 8270	TOTAL OIL & GREASE	TETRAETHYL LEAD	REMARKS
W-MW1-11.7	9-7-87	3:30P		X	Monitoring Well MW-1	X		X	X		4,500ml - 2 liter
W-MW3-7.10	9-7-87	3:20P		X	" " MW-3	X		X	X		
W-MW5-10.3	9-7-87	2:50P		X	" " MW-5	X		X	X		
W-MW6-10.6	9-7-87	3:00P		X	" " MW-6	X		X	X		

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Jack Chen	DATE 9-7-87 TIME 4:15	Raj Pandher	DATE 9/7/87 TIME 4:16
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

PROJ. | SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6747 BAY STREET
EMERYVILLE, CA

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8010 & 8220	TOTAL OIL & GREASE	TETRAETHYL LEAD	PRE-DISPOSAL CAM METALS	REMARKS
SUMP #2	8-21-87	1:00P		X	SUMP 2 (WEST) INSIDE	X		X	X		X	X	
SUMP #3	8-21-87	1:20P		X	SUMP 3 (EAST) INSIDE	X		X	X		X	X	
SUMP #3	8-21-87	1:20P			SUMP (EAST) SWIPE SUMP								HOLD
SOIL-3	8-21-87	1:50P	X		CURB SPLIT 1' DEEP		X	X			X		
SOIL-4	8-21-87	1:55P	X		CURB SPLIT 3' DEEP		X	X			X		
SOIL-5	8-21-87	2:30P	X		SUMP #1 SOIL-1'		X	X			X		
SOIL-2	8-21-87	11:00A	X		SOIL CENTER (TANK #2)		X	X			X		

RELINQUISHED BY: (Signature) Keith Jay	DATE 8-21-87 TIME 3:43P	RECEIVED BY: (Signature) Raj Pandher	DATE 8-21-87 TIME 3:44PM
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6767 BAY ST.
EMERYVILLE, CA

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	PKG Disposal Comm Inv: TACS	REMARKS
Sump 1	8/21/89	9:20A		X	Sump WELL (BACK)	X		X	X		X	X
Soil-1	8/21/89	10:30A	X		Soil (TANK 1 - NORTH)		X	X			X	

RELINQUISHED BY: (Signature) Keith Jay	DATE 8-21-89 TIME 10:50A	RECEIVED BY: (Signature)	DATE 8/21/89 TIME
RELINQUISHED BY: (Signature)	DATE 8/21/89 TIME 11:04	RECEIVED BY: (Signature) Darcy Way	DATE 8/21/89 TIME 11:18
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

PRO NO. | SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY ST.
EMERYVILLE CA

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	PKE Disposal Comm w/ TACS	REMARKS
SUMP 1	8/21/87	9:20A		X	SUMP WELL (BACK)	X		X	X		X	X
SOIL-1	8/21/87	10:30A	X		SOIL (TANK 1 - NORTH)		X	X			X	

RELINQUISHED BY: (Signature) Keith Jay	DATE 8-21-87 TIME 10:50A	RECEIVED BY: (Signature)	DATE 8/21/87 TIME 10
RELINQUISHED BY: (Signature)	DATE 8/21/87 TIME 11:04	RECEIVED BY: (Signature) Darcy Way	DATE 8/21/87 TIME 11:18 am
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN OF CUSTODY RECORD

890824

PROJ. NO. 7102 4 | SAMPLERS: (Signature)

PROJECT NAME AND ADDRESS:
4136 Lakeside Drive To Jaime Chow
Richmond - Ca - 94806
(415) 222 - 3002

Regular Turnaround

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	REMARKS
Soil #3	8/21/89	1:50PM	X		Curb Split 1' Deep		X			
Soil -4	8/21/89	1:55PM	X		Curb Spit 3' Deep		X			
Soil -5	8/21/89	2:30PM	X		Sump #1 Soil -1'		X			
Soil -2	8/21/89	11:00A	X		Soil Center (Tank #2)		X			

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Surinder Pal Sidhu	8/22/89 1:05	Terry Dalio	8/22/89 2:30pm
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature) Rebecca J Turner Chiarello	DATE 8/22/89 TIME

PROJ. NO.

SAMPLER(S): (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY ST.
EMERYVILLE, CA

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	PKG Disposal Comm. w/ FACS	REMARKS
SUMP 1	8/21/87	9:20A		X	SUMP WELL (BACK)	X		X	X		X	X
SOIL-1	8/21/87	10:30A	X		SOIL (TANK 1 - NORTH)		X	X			X	

ANALYSIS REQUESTED

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Keith Jay	8-21-87 10:52		8/21/87 10:52
	8/21/87 11:04	Darcy Way	8/21/87 11:18
	DATE / TIME		DATE / TIME
	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME

LW **Environmental Services, Inc.**

2111 Jennings Street, San Francisco, CA 94124-3224, Phone (415) 822-4555 FAX (415) 822-5290

June 27, 1989

Mr. Robert P. Gates
Erskine & Tulley
580 Market Street
San Francisco, Ca 94104

RE: MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY STREET, EMERYVILLE, CALIFORNIA 94609
JOB NO. 9077

STATUS REPORT OF ACTIVITIES RELATING TO THE REMOVAL AND DISPOSAL OF HAZARDOUS WASTE FROM M.R.C.P. PROPERTY AND ANALYTICAL RESULTS OF SOIL & WATER SAMPLES COLLECTED IN THE NORTHWEST AREA OF THE PROPERTY.

Beginning on the 14th of March and continuing through the 15th of March, 1989 L & W Environmental chemists and technicians sampled 90 drums of hazardous waste stored at the west end of the printing facility. Field observation and sample's collected verified the material to be waste printing ink, solvent cleaning compounds, volatile & semi-volatile hydrocarbons and color pigments.

Each drum was numbered and logged and samples were delivered to a State Licensed and Certified Hazardous Waste Testing Laboratory. The predisposal analysis consisted of pH, Oil Solvent, Phenol, Excess Oxidant Sulfide, Halogenated Hydrocarbons, Flammability, Combustible, Solids/Aqueous, on all 90 drums. To reduce costs substantially, composite samples were made with every 10 drums. The nine composite samples were analyzed for Priority Pollutant Metals (CAM Metals), PCB's, Halogenated Hydrocarbons, Cyanide, Sulfide and Phenols. (APPENDIX A)

On April 12, 1989, L & W Environmental Services, Inc. received the Analytical Data and Certificates. Disposal of hazardous waste is first profiled to determine the proper waste stream. If it meets the facility requirements, a release number is then assigned.

Profiles of this waste were transmitted to several facilities in California. Gibson Oil & Refining in Bakersfield, California was chosen because of cost. Ink waste & solvents are blended into fuels greatly reducing the clients liability through recycling of the waste.

On June 8, 1989, L & W Environmental field technicians began removing the contents of the drums. 2,700 gallons of ink were collected.

Due to the inadvertent activities of an M.R.C.P. Employee, additional chemicals were added causing a chemical reaction which changed the pH to a non-stable state of pH 4.2. Additional samples were collected from the vacuum truck and rush analysis was conducted at the Laboratory facility. (APPENDIX B)

Results indicated a pH adjustment, of 4.2 to 8.0. This was accomplished by adding 700 gallons of water and 50 kg. of caustic soda.

On June 12, 1989, the materials were delivered to Gibson Oil & Refining.

On June 26, 1989, L & W Environmental Services, Inc. began converting the contents of the remaining drums to a liquid state. There are approximately 46, containing a very heavy ink sludge. In order to vacuum the materials a cutting agent (MEK) was added to liquify the material.

On June 27, 1989, L & W Environmental Services, Inc. will continue the removal of the Ink Waste and then commence with the cleaning and disposal of the drums.

At the time of this report, L & W Environmental Services, Inc. expects removal of all drums by June 30, 1989.

Corresponding with the waste removal is an Environmental Site Assessment that includes site history, site profile, soil borings, soil and water analysis. Regional Water Board & Alameda County Health Department Reports, Aerial Photos of Facility and adjoining Properties, (prior to construction and present state) will be studied and evaluated.

On April 26, 1989, two soil borings were drilled in the general vicinity of the storage drums. Ground-water was encountered at a depth of 10.5 feet below the surface. Analytical results are enclosed in this status report. (APPENDIX C)

Due to the Historical Industrialized use of the Emeryville Area, additional soil borings and the installation of a groundwater monitoring well will be required to better define the site condition.

In addition to the soil & groundwater investigation, we recommend a thorough building investigation to include sampling and analysis of areas indicating ink and solvent spillage.

Sincerely,

George Wilson
Vice President

GW/ncd

Encls.

/A1161/

APPENDIX A

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 03/15/89
Reported: 04/12/89
Job #: 70744

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA. 94608

Project: Mike Roberts Color Productions

Lab ID #:	70744-1	70744-2	70744-3	70744-4	70744-5	70744-6
Client ID:	9077-1	9077-2	9077-3	9077-4	9077-5	9077-6
ANALYSIS:						
pH	6.0	7.0	6.0	5.0	5.0	6.0
Oil	N/A	N/A	1 %	N/A	N/A	N/A
Solvent	N/A	N/A	N/A	N/A	N/A	N/A
Phenol	Negative	Negative	Negative	Negative	Positive	Negative
Excess Oxidant	Negative	Negative	Negative	Negative	Negative	Negative
Sulfide	N/A	N/A	N/A	Negative	N/A	N/A
Halogenated	N/A	N/A	Negative	Negative	Negative	N/A
Flammable	N/A	N/A	N/A	No	No	N/A
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	None	None	None	None	None	None
Aqueous	100%	100%	99%	100%	100%	100%

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70744

Lab ID #:	70744-7	70744-8	70744-9	70744-10	70744-11	70744-12
Client ID:	9077-7	9077-8	9077-9	9077-10	9077-11	9077-12
ANALYSIS:						
pH	6.0	3.0	N/A	3.0	6.0	N/A
Oil	N/A	N/A	N/A	10%	N/A	N/A
Solvent	5%	20%	100%	N/A	N/A	100%
Phenol	Positive	Negative	N/A	Negative	Negative	N/A
Excess Oxidant	Positive	Positive	N/A	Negative	Negative	N/A
Sulfide	Negative	Negative	Negative	Negative	N/A	Negative
Halogenated	Negative	Negative	Negative	Positive	N/A	Negative
Flammable	Yes	Yes	Yes	No	N/A	Yes
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	None	None	None	20%	1%	N/A
Aqueous	95%	80%	N/A	70%	99%	N/A

Lab ID #:	70744-13	70744-14	70744-15	70744-16	70744-17	70744-18
Client ID:	9077-13	9077-14	9077-15	9077-16	9077-17	9077-18
ANALYSIS:						
pH	6.0	N/A	4.0	6.0	N/A	6.0
Oil	N/A	N/A	N/A	0.5%	N/A	2%
Solvent	N/A	100%	50%	N/A	100%	N/A
Phenol	Negative	Negative	Negative	Negative	Negative	Negative
Excess Oxidant	Negative	Negative	Negative	Negative	Negative	Negative
Sulfide	N/A	N/A	Negative	Negative	Negative	Negative
Halogenated	N/A	Negative	Positive	Negative	Negative	Positive
Flammable	N/A	Yes	Yes	No	Yes	Yes
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	None	None	None	None	None	None
Aqueous	100%	N/A	50%	99%	N/A	98%

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70744

Lab ID #:	70744-19	70744-20	70744-21	70744-22	70744-23	70744-24
Client ID:	9077-19	9077-20	9077-21	9077-22	9077-23	9077-24
ANALYSIS:						
pH	5.0	4.0	6.0	5.0	N/A	N/A
Oil	N/A	N/A	N/A	N/A	*	N/A
Solvent	N/A	N/A	10%	N/A	N/A	99%
Phenol	Negative	Negative	Negative	Negative	N/A	N/A
Excess Oxidant	Negative	Negative	Negative	Negative	N/A	N/A
Sulfide	N/A	N/A	Negative	N/A	Negative	Negative
Halogenated	N/A	N/A	Negative	N/A	Negative	Positive
Flammable	N/A	N/A	Yes	No	No	Yes
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	None	None	None	30%	None	1%
Aqueous	100%	100%	90%	70%	N/A	N/A

* 100% Grease

Lab ID #:	70744-25	70744-26	70744-27	70744-28	70744-29	70744-30
Client ID:	9077-25	9077-26	9077-27	9077-28	9077-29	9077-30
ANALYSIS:						
pH	5.0	5.0	6.0	N/A	5.0	6.0
Oil	N/A	N/A	2%	*	N/A	N/A
Solvent	20%	65%	N/A	N/A	N/A	N/A
Phenol	Negative	Positive	Negative	N/A	Negative	Negative
Excess Oxidant	Negative	Positive	Negative	N/A	Negative	Negative
Sulfide	Negative	Negative	Negative	Negative	N/A	N/A
Halogenated	Negative	Negative	Negative	Negative	Negative	N/A
Flammable	Yes	Yes	No	No	No	N/A
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	None	None	None	None	20%	None
Aqueous	80%	35%	98%	N/A	80%	100%

* 100% Grease

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70744

Lab ID #:	70744-31	70744-32	70744-33
Client ID:	9077-31	9077-32	9077-33
ANALYSIS:			
pH	6.0	6.0	N/A
Oil	N/A	N/A	N/A
Phenol	Negative	Negative	N/A
Excess Oxidant	Negative	Negative	N/A
Sulfide	N/A	N/A	N/A
Halogenated	N/A	N/A	N/A
Flammable	N/A	N/A	N/A
Combustible	N/A	N/A	N/A
Solids	None	None	100%
Aqueous	100%	100%	N/A

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 03/15/89
Reported: 04/12/89
Job #: 70745

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA. 94608

Project: Mike Roberts Color Productions

Lab ID #:	70745-1	70745-2	70745-3	70745-4	70745-5	70745-6
Client ID:	9077-34	9077-35	9077-36	9077-37	9077-38	9077-39
ANALYSIS:						
pH	5.0	N/A	5.0	6.0	5.0	4.0
Oil	1%	N/A	N/A	N/A	N/A	N/A
Solvent	N/A	100%	N/A	95%	N/A	N/A
Phenol	Negative	Negative	Negative	Negative	Positive	Positive
Excess Oxidant	Negative	Positive	Negative	Negative	Negative	Negative
Sulfide	N/A	N/A	N/A	N/A	N/A	N/A
Halogenated	Negative	Yes	N/A	Negative	N/A	Negative
Flammable	No	Yes	N/A	Yes	N/A	No
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	50%	N/A	N/A	5%	10%	1%
Aqueous	49%	N/A	100%	N/A	90%	99%

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Lab ID #:	70745-7	70745-8	70745-9	70745-10	70745-11	70745-12
Client ID:	9077-40	9077-41	9077-42	9077-43	9077-44	9077-45
ANALYSIS:						
pH	6.0	6.0	5.0	N/A	N/A	N/A
Oil	30%	20%	60%	N/A	N/A	N/A
Solvent	N/A	N/A	N/A	100%	100%	100%
Phenol	Negative	Negative	N/A	Negative	N/A	N/A
Excess Oxidant	Negative	Negative	N/A	Negative	N/A	N/A
Sulfide	Negative	Negative	N/A	N/A	Negative	Negative
Halogenated	Negative	Negative	Negative	Negative	Positive	Negative
Flammable	No	No	No	Yes	Yes	Yes
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	None	None	25%	None	None	None
Aqueous	70%	80%	15%	N/A	N/A	N/A

Lab ID #:	70745-13	70745-14	70745-15	70745-16	70745-17	70745-18
Client ID:	9077-46	9077-47	9077-49	9077-50	9077-51	9077-52
ANALYSIS:						
pH	N/A	5.0	2.0	6.0	7.0	6.0
Oil	N/A	N/A	N/A	N/A	N/A	N/A
Solvent	90%	N/A	N/A	N/A	N/A	N/A
Phenol	N/A	Negative	Negative	Negative	Negative	Negative
Excess Oxidant	N/A	Negative	Positive	Negative	Negative	Negative
Sulfide	Negative	N/A	Negative	N/A	N/A	N/A
Halogenated	Positive	Negative	Negative	N/A	N/A	Negative
Flammable	Yes	No	No	N/A	N/A	No
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	10%	None	None	5%	None	5%
Aqueous	N/A	100%	100%	95%	100%	95%

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70745

Lab ID #:	70745-19	70745-20	70745-21	70745-22	70745-23	70745-24
Client ID:	9077-53	9077-54	9077-55	9077-56	9077-57	9077-58
ANALYSIS:						
pH	6.0	6.0	6.0	5.0	6.0	1.0
Oil	N/A	5%	N/A	N/A	N/A	N/A
Solvent	100%	N/A	N/A	N/A	N/A	N/A
Phenol	Negative	Negative	Negative	Negative	Negative	Negative
Excess Oxidant	Negative	Negative	Positive	Negative	Negative	Negative
Sulfide	N/A	N/A	N/A	N/A	N/A	Negative
Halogenated	Negative	Negative	N/A	N/A	N/A	Negative
Flammable	Yes	No	N/A	N/A	N/A	N/A
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	None	5%	None	None	None	60%
Aqueous	N/A	90%	100%	100%	100%	40%

Lab ID #:	70745-25	70745-26	70745-27	70745-28	70745-29	70745-30
Client ID:	9077-59	9077-60	9077-61	9077-62	9077-63	9077-64
ANALYSIS:						
pH	6.0	6.0	N/A	N/A	N/A	N/A
Oil	90%	N/A	N/A	N/A	100%	100%
Solvent	N/A	N/A	100%	70%	N/A	N/A
Phenol	N/A	Negative	N/A	N/A	N/A	N/A
Excess Oxidant	N/A	Negative	N/A	N/A	N/A	N/A
Sulfide	Negative	N/A	Negative	Negative	Negative	Negative
Halogenated	Negative	N/A	Negative	Positive	Negative	Negative
Flammable	No	N/A	Yes	No	No	No
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	None	None	None	30%	None	None
Aqueous	10%	100%	N/A	N/A	N/A	N/A

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70745

Lab ID #:	70745-31	70745-32
Client ID:	9077-65	9077-66
ANALYSIS:		
pH	N/A	N/A
Oil	100%	70%
Phenol	N/A	N/A
Excess Oxidant	N/A	N/A
Sulfide	Negative	Negative
Halogenated	Positive	Positive
Flammable	No	No
Combustible	N/A	N/A
Solids	None	None
Aqueous	N/A	30%

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 03/15/89
Reported: 04/12/89
Job #: 70746

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA. 94608

Project: Mike Roberts Color Productions

Lab ID #:	70746-1	70746-2	70746-3	70746-4	70746-5	70746-6
Client ID:	9077-67	9077-68	9077-69	9077-70	9077-71	9077-72
ANALYSIS:						
pH	N/A	N/A	N/A	N/A	N/A	N/A
Oil	N/A	N/A	N/A	100%	100%	100%
Solvent	50%	N/A	N/A	N/A	N/A	N/A
Phenol	N/A	N/A	N/A	N/A	N/A	N/A
Excess Oxidant	N/A	N/A	N/A	N/A	N/A	N/A
Sulfide	Negative	Negative	Negative	Negative	Negative	Negative
Halogenated	Negative	Negative	Negative	Negative	Negative	Positive
Flammable	Yes	No	No	No	Yes	No
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	50%	100%	*	**	N/A	**
Aqueous	N/A	N/A	N/A	N/A	N/A	N/A

* Paint
** 100% Sticky Oil

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70746

Lab ID #:	70746-7	70746-8	70746-9	70746-10	70746-11	70746-12
Client ID:	9077-73	9077-74	9077-75	9077-76	9077-77	9077-78
ANALYSIS:						
pH	N/A	N/A	N/A	N/A	N/A	N/A
Oil	N/A	100%	100%	100%	100%	100%
Solvent	10%	N/A	N/A	N/A	N/A	N/A
Phenol	N/A	N/A	N/A	N/A	N/A	N/A
Excess Oxidant	N/A	N/A	N/A	N/A	N/A	N/A
Sulfide	Negative	Negative	Negative	Negative	Negative	Negative
Halogenated	Negative	Negative	Positive	Negative	Negitive	Positive
Flammable	Yes	Yes	No	No	No	No
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	90%	*	*	*	*	*
Aqueous	N/A	N/A	N/A	N/A	N/A	N/A

* 100% Sticky Oil

Lab ID #:	70746-13	70746-14	70746-15	70746-16	70746-17	70746-18
Client ID:	9077-79	9077-80	9077-81	9077-82	9077-83	9077-84
ANALYSIS:						
pH	N/A	N/A	N/A	N/A	N/A	N/A
Oil	N/A	100%	N/A	N/A	N/A	N/A
Solvent	N/A	N/A	80%	N/A	N/A	N/A
Phenol	N/A	N/A	N/A	N/A	N/A	N/A
Excess Oxidant	N/A	N/A	N/A	N/A	N/A	N/A
Sulfide	N/A	N/A	N/A	N/A	N/A	N/A
Halogenated	Positive	Positive	Negative	Positive	Negative	Positive
Flammable	No	No	Yes	N/A	Yes	No
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	*100%	**	20%	***	****	100%
Aqueous	N/A	N/A	N/A	N/A	N/A	N/A

* Ink
** Sticky Oil
*** Blue Paint
**** Red Paint

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70746

Lab ID #:	70746-19	70746-20	70746-21	70746-22	70746-23	70746-24
Client ID:	9077-85	9077-86	9077-87	9077-88	9077-89	9077-90

ANALYSIS:

pH	5.0	N/A	6.0	6.0	6.0	N/A
Oil	N/A	N/A	N/A	N/A	N/A	100%
Solvent	N/A	N/A	N/A	N/A	N/A	N/A
Phenol	Positive	N/A	Negative	Negative	Negative	N/A
Excess Oxidant	Positive	N/A	Negative	Negative	Negative	N/A
Sulfide	N/A	Negative	N/A	N/A	N/A	Negative
Halogenated	N/A	Negative	N/A	N/A	N/A	Negative
Flammable	N/A	No	N/A	N/A	N/A	No
Combustible	N/A	N/A	N/A	N/A	N/A	N/A
Solids	*	*	None	None	None	*
Aqueous	100%	N/A	100%	100%	100%	N/A

* 100% Sticky Oil

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME (OR NUMBER)
Feb 89

PROJECT MANAGER
MIKE ROBERTS COLOR PRODUCTIONS

ADDRESS
6707 BAY STREED
EMERYVILLE, CA 94608

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	TOTAL PETROLEUM HYDROCARBONS	PRE-DISPOSAL ANALYSIS	PCB'S	TOTAL OIL & GREASE	TETRAETHYL LEAD	HALOGENATED	CAM METALS	REMARKS
	3-14-89	1300			9077-1	X							
	3-14-89	1305			9077-2	X							
	3-14-89	1310			9077-3	X							
	3-14-89	1317			9077-4	X							
	3-14-89	1320			9077-5	X							
	3-14-89	1325			9077-6	X							
	3-14-89	1327			9077-7	X							
	3-14-89	1328			9077-8	X							
	3-14-89	1105			9077-9	X							
	3-14-89	1327			9077-10	X		X		X	X		
	3-14-89	1332			9077-11	X							

Comp Mod Ltr

RELINQUISHED BY: (Signature)
Keith Jay

DATE 3-15-89
TIME 12:00

RECEIVED BY: (Signature)
Jane Blow

DATE 3/15/89
TIME 12:00

RELINQUISHED BY: (Signature)

DATE

TIME

RECEIVED BY: (Signature)

DATE

TIME

RELINQUISHED BY: (Signature)

DATE

TIME

RECEIVED BY: (Signature)

DATE

TIME

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY STREET
EMERYVILLE, CA 94608

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	TOTAL PETROLEUM HYDROCARBONS	PRE-DISPOSAL ANALYSIS	PCB'S	TOTAL OIL & GREASE	TETRAETHYL LEAD	HALOGENATED	CAM METALS	REMARKS
	3-[illegible]-89	1102			9077-12		X						
	3-14-89	1332			9077-13		X						
	3-14-89	1333			9077-14		X						
	3-14-89	1354			9077-15		X						
	3-15-89	1059			9077-16		X						
	3-14-89	1455			9077-17		X						
	3-14-89	1455			9077-18		X						
	3-14-89	1357			9077-19		X						
	3-14-89	1357			9077-20		X						
	3-14-89	1401			9077-21		X	X		X	X		
	3-14-89	1402			9077-22		X						

Composite

RELINQUISHED BY: (Signature) Keith Jay	DATE 3-15-89 TIME 12:00	RECEIVED BY: (Signature)	DATE 3/15/89 TIME 12:30
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CRACH (9/88)

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS (SIGNATURE): Keith Jay

PROJECT NAME AND LOCATION:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY STREET
EMERYVILLE CA 94608

ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS; PRE-DISPOSAL ANALYSIS; PCB'S; TOTAL OIL & GREASE; TETRAETHYL LEAD; HALOGENATED; Cam Metals

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	TOTAL PETROLEUM HYDROCARBONS	PRE-DISPOSAL ANALYSIS	PCB'S	TOTAL OIL & GREASE	TETRAETHYL LEAD	HALOGENATED	Cam Metals	REMARKS
	3-14-89	1057			9077-23	X	X	Composite					
	3-14-89	1107			9077-24	X	X						
	3-14-89	1107			9077-25	X	X						
	3-14-89	1109			9077-26	X	X						
	3-14-89	1110			9077-27	X	X						
	3-14-89	1111			9077-28	X	X						
	3-14-89	1112			9077-29	X	X						
	3-14-89	1112			9077-30	X	X			X	X		
	3-14-89	1113			9077-31	X	X			X	X		
	3-14-89	1114			9077-32	X	X						
	3-14-89	1115			9077-33	X	X						

RELINQUISHED BY: (Signature) Keith Jay — DATE 3-15-89 — TIME 12:00

RECEIVED BY: (Signature) — DATE 3/15/89 — TIME 12:00

RELINQUISHED BY: (Signature) — DATE — TIME

RECEIVED BY: (Signature) — DATE — TIME

RELINQUISHED BY: (Signature) — DATE — TIME

RECEIVED BY: (Signature) — DATE — TIME

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY STREET
EMERYVILLE, CA 94608

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	TOTAL PETROLEUM HYDROCARBONS	PRE-DISPOSAL ANALYSIS	PCB'S	TOTAL OIL & GREASE	TETRAETHYL LEAD	HALOGENATED	Cam Metals	REMARKS
	3-14-89	1415			9077-34		X	Composite					
	3-14-89	1416			9077-35		X						
	3-14-89	1417			9077-36		X						
	3-14-89	1418			9077-37		X						
	3-15-89	1005			9077-38		X						
	3-14-89	1424			9077-39		X						
	3-14-89	1425			9077-40		X						
	3-14-89	1426			9077-41		X	X			X	X	
	3-14-89	1427			9077-42		X						
	3-14-89	1927			9077-43		X						
	3-14-89	1429			9077-44		X						

RELINQUISHED BY: (Signature) Keith Jay
DATE 3-15-89
TIME 12:00
RECEIVED BY: (Signature)
DATE 3/15/89
TIME 12:31

RELINQUISHED BY: (Signature)
DATE
TIME
RECEIVED BY: (Signature)
DATE
TIME

RELINQUISHED BY: (Signature)
DATE
TIME
RECEIVED FOR LABORATORY BY: (Signature)
DATE
TIME

CHAIN (9/88)

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MINE KAFED COOL INJECTIONS
6767 BAY STREET
EMERYVILLE CA 94608

ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS; PRE-DISPOSAL ANALYSIS; PCB'S; TOTAL OIL & GREASE; TETRAETHYL LEAD; HALOGENATED; CAM Metals; REMARKS

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	REMARKS
	3-14-89	1429			6767-45	
	3-14-89	1430			6767-46	
	3-14-89	1431			6767-47	
EMPTY	1441				~~6767-48~~	
	3-14-89	1432			6767-49	
	3-14-89	1450			6767-50	
	3-14-89	1451			6767-51	
	3-14-89	1452			6767-52	
	3-14-89	1453			6767-53	
	3-14-89	1454			6767-54	
	3-14-89	1455			6767-55	

Comp Hold 15

RELINQUISHED BY: (Signature) Keith Jay	DATE 3-15-89 TIME 12:00	RECEIVED BY: (Signature)	DATE 3/15/89 TIME 12:00
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN (9/88)

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY STREET
EMERYVILLE, CA 94608

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	ANALYSIS REQUESTED: TOTAL PETROLEUM HYDROCARBONS	PRE-DISPOSAL ANALYSIS	PCB'S	TOTAL OIL & GREASE	TETRAETHYL LEAD	HALOGENATED	CAM Metals	REMARKS
	3-14-89	1456			9077-56		X	↓					
	3-14-89	1501			9077-57		X						
	3-14-89	1502			9077-58		X						
	3-14-89	1507			9077-59		X						
	3-14-89	1508			9077-60		X						
	3-14-89	1509			9077-61		X						
	3-14-89	1511			9077-62		X	X		↓	X		
	3-15-89	1000			9077-63		X						
	3-15-89	1002			9077-64		X						
	3-15-89	1003			9077-65		X						
	3-14-89	1515			9077-66		X						

RELINQUISHED BY: (Signature) Keith Jay — DATE 3-15-89 TIME 12:00 — RECEIVED BY: (Signature) — DATE 3/15/89 TIME 12:

RELINQUISHED BY: (Signature) — DATE — TIME — RECEIVED BY: (Signature) — DATE — TIME

RELINQUISHED BY: (Signature) — DATE — TIME — RECEIVED FOR LABORATORY BY: (Signature) — DATE — TIME

CHAIN (9/88)

CHAIN OF CUSTODY RECORD

6701 Koll Circle

Emeryville, CA 94608

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	TOTAL PETROLEUM HYDROCARBONS	PRE-DISPOSAL ANALYSIS	PCB's	TOTAL OIL & GREASE	TETRACHLOROETHENE	HALOGENATED VOLATILES	CAM Wet	REMARKS
	3-14-89	1517			9077-67	X							
	3-14-89	1518			9077-68	X							
	3-14-89	1519			9077-69	X							
	3-14-89	1520			9077-70	X							
	3-14-89	1005			9077-71	X							
	3-14-89	731			9077-72	X	Y	Composite		X	Y		
	3-14-89	734			9077-73	X							
	3-14-89	732			9077-74	X							
	3-14-89	733			9077-75	X							
	3-14-89	734			9077-76	X							
	3-14-89	1005			9077-77	X	Y			X	X		

RELINQUISHED BY: (Signature) Keith Jay — DATE 3-15-89 TIME 12:00

RECEIVED BY: (Signature) — DATE 3/15/89 TIME 12:02

RELINQUISHED BY: (Signature) — DATE — TIME

RECEIVED BY: (Signature) — DATE — TIME

RELINQUISHED BY: (Signature) — DATE — TIME

RECEIVED FOR LABORATORY BY: (Signature) — DATE — TIME

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:

MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY STREET
EMERYVILLE, CA 94608

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	TOTAL PETROLEUM HYDROCARBONS	PRE-DISPOSAL ANALYSIS	PCB'S	TOTAL OIL & GREASE	TETRAETHYL LEAD	HALOGENATED	Cam Metals	REMARKS
	3-15-89	940			9077-78		X						
	3-15-89	941			9077-79		X						
	3-15-89	941			9077-80		X						
	3-15-89	948			9077-81		X						
	3-15-89	948			9077-82		X						
	3-15-89	949			9077-83		X						
	3-15-89	1007			9077-84		X	X					
	3-15-89	1008			9077-85		X						
	3-15-89	1009			9077-86		X						
	3-15-89	957			9077-87		X						
	3-15-89	957			9077-88		X						

Composite

RELINQUISHED BY: (Signature) Keith Jay	DATE 3-15-89 TIME 12:00	RECEIVED BY: (Signature)	DATE 3/15/89 TIME 12 -
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE TIME

CHAIN (9/88)

CHAIN OF CUSTODY RECORD

PROJ. NO.

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY STREET
EMERYVILLE, CA 94608

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATON	TOTAL PETROLEUM HYDROCARBONS	PRE-DISPOSAL ANALYSIS	PCB'S	TOTAL OIL & GREASE	TETRAETHYL LEAD	HALOGENATED	Cam Metals	REMARKS
	3-15-89	1005			9077-89		X						
	3-15-89	956			9077-90		X	X			X	X	

Composite

RELINQUISHED BY: (Signature) Keith Jay — DATE 3-15-89 TIME 12:00

RECEIVED BY: (Signature) — DATE 3/17/89 TIME 12:00

RELINQUISHED BY: (Signature) — DATE — TIME

RECEIVED BY: (Signature) — DATE — TIME

RELINQUISHED BY: (Signature) — DATE — TIME

RECEIVED FOR LABORATORY BY: (Signature) — DATE — TIME

CHAIN (9/88)

APPENDIX B

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 04/26/89
Reported: 06/07/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015
Oil & Grease Analysis: By Standard Method 503D
mg/kg

Lab ID	Client ID	TPH as Diesel	TPH as Gasoline	Oil & Grease	PCB's
70800-1	IS1- 3.5'	46	ND<10	1915	0.4
70800-2	IS1- 7.0'	200	ND<10	3390	0.7
70800-3	IS1-10.5'	ND<10	300	2185	ND<0.5
70800-4	IS2- 3.0'	50	ND<10	1305	0.2
70800-5	IS2- 8.5'	ND<10	ND<10	36,535	ND<0.5

QA/QC: Spike Recovery for Gasoline: 107%
Spike Recovery for Oil & Grease: 99%
Spike Recovery for PCB's: 110%

Detection Limit for TPH: 10
Detection Limit for Oil & Grease: 50
Detection Limit for PCB: 0.5

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 04/26/89
Reported: 06/07/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Productions

Aromatic Volatile Hydrocarbon Analysis:
EPA Method 8020
mg/kg

Lab ID	Client ID	Benzene	Toluene	MDL
70800-1	IS1- 3.5'	ND<0.03	0.06	0.03
70800-2	IS1- 7.0'	ND<0.03	0.20	0.03
70800-3	IS1-10.5'	0.24	1.3	0.06
70800-4	IS1- 3.0'	ND<0.03	0.25	0.03
70800-5	IS1- 8.5'	0.14	0.10	0.03

Lab ID	Client ID	Ethylbenzene	Xylene	MDL
70800-1	IS1- 3.5'	ND<0.03	0.04	0.03
70800-2	IS1- 7.0'	ND<0.03	0.07	0.03
70800-3	IS1-10.5'	1.8	11	0.06
70800-4	IS1- 3.0'	ND<0.03	0.10	0.03
70800-5	IS1- 8.5'	1.4	4.5	0.03

QA/QC: Spike Recovery for BTX Average: 125%

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 04/26/89
Reported: 06/05/89
Job #: 70800

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70800-1	70800-2	70800-3	70800-4	70800-5		
Client ID:	IS1-3.5'	IS1-7.0'	IS1-10.5'	IS12-3.0'	IS2-8.5'		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	68
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	80
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	NA
Mo	1.2	ND<1.0	3.7	1.2	ND<1.0	1.0	NA
Sb	6.5	1.4	1.6	ND<1.0	ND<1.0	1.0	NA
Zn	200	48.9	5400	270	22.9	0.15	68
Cd	4.1	4.2	10.2	3.2	1.5	0.3	70
Pb	100	130	4300	90	5.3	1.1	78
Co	5.6	6.4	11.4	6.0	2.8	0.5	70
Ni	32.1	31.5	42.6	30.9	15.5	0.65	NA
Cr	20.1	21.5	63.8	18.5	6.6	0.15	68
V	15.4	17.3	17.3	15.6	6.7	0.1	74
Be	0.05	ND<0.025	ND<0.025	0.025	ND<0.025	0.025	88
Cu	70	104	1042	56.7	13.8	0.1	82
Ag	15.2	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	70
Ba	110	130	255	90	35.7	0.1	86

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 04/26/89
Reported: 06/05/89
Job #: 70800

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70800-1	70800-2	70800-3	70800-4	70800-5		
Client ID:	IS1-3.5'	IS1-7.0'	IS1-10.5'	IS12-3.0'	IS2-8.5'		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	68
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	80
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	NA
Mo	1.2	ND<1.0	3.7	1.2	ND<1.0	1.0	NA
Sb	6.5	1.4	1.6	ND<1.0	ND<1.0	1.0	NA
Zn	200	48.9	5400	270	22.9	0.15	68
Cd	4.1	4.2	10.2	3.2	1.5	0.3	70
Pb	100	130	4300	90	5.3	1.1	78
Co	5.6	6.4	11.4	6.0	2.8	0.5	70
Ni	32.1	31.5	42.6	30.9	15.5	0.65	NA
Cr	20.1	21.5	63.8	18.5	6.6	0.15	68
V	15.4	17.3	17.3	15.6	6.7	0.1	74
Be	0.05	ND<0.025	ND<0.025	0.025	ND<0.025	0.025	88
Cu	70	104	1042	56.7	13.8	0.1	82
Ag	15.2	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	70
Ba	110	130	255	90	35.7	0.1	86

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 04/26/89
Reported: 06/07/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Productions

Aromatic Volatile Hydrocarbon Analysis:
EPA Method 8020
mg/kg

Lab ID	Client ID	Benzene	Toluene	MDL
70800-1	IS1- 3.5'	ND<0.03	0.06	0.03
70800-2	IS1- 7.0'	ND<0.03	0.20	0.03
70800-3	IS1-10.5'	0.24	1.3	0.06
70800-4	IS1- 3.0'	ND<0.03	0.25	0.03
70800-5	IS1- 8.5'	0.14	0.10	0.03

Lab ID	Client ID	Ethylbenzene	Xylene	MDL
70800-1	IS1- 3.5'	ND<0.03	0.04	0.03
70800-2	IS1- 7.0'	ND<0.03	0.07	0.03
70800-3	IS1-10.5'	1.8	11	0.06
70800-4	IS1- 3.0'	ND<0.03	0.10	0.03
70800-5	IS1- 8.5'	1.4	4.5	0.03

QA/QC: Spike Recovery for BTX Average: 125%

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 01/05/89
Reported: 01/20/89
Job No #: 70800

Attn: George Wilson
Mike Roberts Color Production
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Chloro -methane	Bromo -methane	Vinyl Chloride	Chloro -ethane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Methylene Chloride	1,1- dichloro -ethene	1,1- dichloro -ethane	Trans-1,2 dichloro -ethene	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

QA/QC: Spike Recovery Average: 109%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70800

Lab ID	Client ID	Chloro -form	1,2- dichloro -ethane	1,1,1- Trichloro -ethene	Carbon Tetra- Chloride	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	0.5	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Bromo- dichloro -methane	1,2- dichloro -propene	Tri- Chloro -ethene	Dibromo -chloro -methane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	0.3	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	<0.15	ND<0.15	0.15

Lab ID	Client ID	1,1,2- Trichloro -ethane	Trans-1,3 dichloro -propene	2-Chloro -ethyl Vinyl ether	Bromo -form	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	Tetra- chloro- -ethene	1,1,2,2- tetra- chloro -ethane	Chloro- benzene	1,3- dichloro -benzene	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	0.11	ND<0.06	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

Lab ID	Client ID	1,2- dichloro -benzene	1,4- dichloro -benzene	Dichloro -difluoro methane	Trichloro- fluoro- methane	MDL
70800-1	IS1 - 3.5'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-2	IS1 - 7.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-3	IS1 - 10.03'	ND<0.06	ND<0.06	ND<0.06	ND<0.03	0.06
70800-4	IS2 - 3.0'	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70800-5	IS2 - 8.5'	ND<0.15	ND<0.15	ND<0.15	ND<0.15	0.15

CHAIN OF CUSTODY RECORD

PROJ. No.:

SAMPLER(S) (Signature): Keith Jay

PROJECT NAME AND ADDRESS:
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY ST.
EMERYVILLE, CA

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	TETRAETHYL LEAD	REMARKS
IS1-3.5'	4-26-89	1:20P	X		WEST of BARREL STORAGE						
IS1-7'	4-26-89	1:35P	X		"						
IS1-10.5'	4-26-89	1:50P	X		"						
IS2-3'	4-26-89	2:00P	X		NW OF BBL STORAGE						
IS2-8.5'	4-26-89	2:10P	X		"						
					"						

ANALYSIS REQUESTED

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Keith Jay	DATE 4-26-89 TIME 2:50PM		DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature) Raj Pandher	DATE 4/26/89 TIME 2.50PM

APPENDIX C

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 06/09/89
Reported: 06/12/89
Job #: 70880

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA. 94608

Project: Mike Roberts Color Productions

Lab ID #: 70880-1
Client ID: Vacuum Truck

ANALYSIS:

		MDL
pH	8.0	N/A
PCB's	ND<1.0 mg/kg	1.0
Non Polar Solvent	20 % by distillation	N/A
Halogenated (solvent layer)	200 ppm	1.0
Halogenated (liquid layer)	3.5 ppm	1.0
Cyanide	ND<1.0 mg/kg	1.0
Sulfide	ND<1.0 mg/kg	1.0
Phenols	ND (Spot Test)	N/A

MDL: Method detection limit; Compound below this level would not be detected.

METHODS:
PCB Method EPA 8080
Halogenated Method EPA 8010
Cyanide Method EPA 9010
Sulfide Method EPA 9030

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 06/09/89
Reported: 06/12/89
Job #: 70880

Attn: George Wilson
Mike Roberts Color Productions
6707 Bay Street
Emeryville, CA.

Project: Mike Roberts Color Production

Analysis Method EPA 6010
Prep Method EPA 3010
mg/l

Lab ID #: 70880-2
Client ID: Liquid Layer

METAL		MDL	% SPIKE RECOVERY
Tl	ND<0.088	0.088	80
As	ND<0.088	0.088	98
Hg	ND<0.2	0.2	96
Se	ND<0.2	0.2	98
Mo	0.7	0.04	90
Sb	1.1	0.04	86
Zn	260	0.06	94
Cd	0.02	0.012	94
Pb	2.4	0.044	92
Co	24.1	0.02	90
Ni	0.7	0.026	94
Cr	190 ✓	0.006	98
V	ND<0.004	0.004	92
Be	ND<0.001	0.001	104
Cu	4.6	0.004	100
Ag	ND<0.004	0.004	64
Ba	1.9	0.004	90

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Production
Job No. 70880

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #: 70880-1
Client ID: Oil Layer

METAL		MDL	% SPIKE RECOVERY
Tl	ND<2.2	2.2	80
As	ND<2.2	2.2	98
Hg	ND<5.0	5.0	96
Se	ND<5.0	5.0	98
Mo	ND<1.0	1.0	90
Sb	ND<1.0	1.0	86
Zn	115	0.15	94
Cd	4.0	0.3	94
Pb	23.6	1.1	92
Co	5.8	0.5	90
Ni	1.9	0.65	94
Cr	120	0.15	98
V	ND<0.1	0.1	92
Be	ND<0.025	0.025	104
Cu	70	0.1	100
Ag	ND<0.1	0.1	64
Ba	6.4	0.1	90

LW **Environmental Services, Inc.**

2111 Jennings Street, San Francisco, CA 94124-3224, Phone (415) 822-4555 FAX (415) 822-5290

August 25, 1989 L & W Project No. 9077.002

Mr. Robert P. Gates
Erskine & Tulley
580 Market Street
San Francisco, California 94104

Subject: Supplemental Environmental Site Assessment and Subsurface Evaluation - Mike Roberts Color Productions property, 6707 Bay Street, Emeryville, California.

Dear Mr. Gates:

Pursuant to your request, we have completed a supplemental environmental site assessment for the subject site recently acquired by Mike Roberts Color Productions (MRCP) located at 6707 Bay Street in Emeryville, California. Our purpose was to evaluate recent information provided by others concerning the site conditions and to report the findings of our soil analysis in reference to sampling performed during our initial subsurface evaluation.

Scope

Our scope of services for this supplemental report are based on the following:

* A walk-through of the site conducted with Mike Roberts Color Production personnel and others on August 17, 1989 to evaluate reported discrepancies in the observed site conditions.

* Completion of analysis of subsurface soil samples collected during the initial environmental site assessment and subsurface evaluation.

* Preliminary findings concerning the status of three underground chemical storage tanks.

* Review structural drawings, building plans, and design modifications provided by Coldwell Banker on August 18, 1989.

Site Observations

On August 17, 1989, Mr. Tom Gram, Mr. Robert Gates, members of L & W Environmental Services, Inc. and Mike Roberts Color Productions met to discuss apparent incongruities in the findings presented by others concerning the subject site. A tour of the site was conducted to evaluate these discrepancies and provide recommendations for further site evaluation based on the findings of the walk-through.

Results of our site observations indicated the two reported water wells located in the Printing and Warehouse Facility were shallow (approximately 18 inches) compressor sumps used for the discharge of condensate from air lines (Figure 1). The sumps were connected to the municipal sewer system.

Drains, suspected of discharging chemical wastes into a sump at the rear of the building and then into near surface soils were discovered to be connected with the sewer system.

On August 14, 1989, three subsurface chemical storage tanks were located near the Bay Street side of the property, north of the Printing and Warehouse building, and approximately 35 feet up-gradient (inferred) of Monitoring Well MW-1 (Figure 1). The tanks were 2,000 gallon, 1,650 gallon, and 3,200 gallon containers located approximately three feet below the ground surface. The product delivery lines were found sealed and capped when traced into the Printing and Warehouse Facility. Product left inside the 2,000 gallon tank was measured to be approximately 700 gallons. The 1,650 and 3,200 gallon tanks were also probed and had approximately 220 and 350 gallons of product left, respectively. Subjective evidence indicates contamination of near surface soil is present in the vicinity of the tank cavity. Samples of product from each tank and from select areas of the excavation were collected for laboratory analysis.

On August 18, 1989, residue from four drains in the warehouse mezzanine was sampled for laboratory analysis. Drains were reportedly used for disposal of photographic developing solutions and were discovered to be connected to the sewer system.

The sump located at the rear of the facility, outside of the building, was excavated on August 21, 1989. It contained a submersible pump that discharged into the city sewer system. No subjective evidence of contamination was observed during the excavation. Samples of near surface soil and sump fluids were collected for laboratory analysis.

An area in the rear (west side) of the site, where runoff from the asphalt is channeled (Figure 1), was sampled by others and found to contain volatile organics, hydrocarbons, and chlorinated hydrocarbon isomers. Excavation and subjective observations of this area on August 21, 1989, indicated contamination appears to be shallow (within three feet). Soil from the excavation was sampled for laboratory analysis and stockpiled for later removal to a qualified disposal facility.

Analytical Results

Soil samples collected during the preliminary investigation (July 5, 1989) were analyzed for CAM metals (Title 22, reference SW 846, third edition, EPA methods 6010 & 3050), polychlorinated biphenyls (PCB's) (EPA method 8080), total petroleum hydrocarbons (TPH) (EPA method 8015), oil and grease (Standard method 503D), and halogenated volatile organics (solvents) (EPA method 8010). These analyses were performed at Precision Analytical Laboratory in Richmond, California and Clayton Environmental Consultants, inc. in Pleasanton, California.

Analytical results of the soil samples collected from Monitoring Well B-1/MW-1 and soil boring B-2 indicated detectable concentrations of TPH as diesel, TPH as gasoline, and oil and grease were present (Table 1). Detectable concentrations of halogenated volatile organics [Method Detection Limit (MDL) = 0.03 mg/kg] and PCB's (MDL = 0.5 mg/kg) were not present. Analytical results for CAM metals indicate detectable concentrations are present at the subject site (Table 2).

Analytical results of purgeable organics compounds in water (EPA method 8240) sampled from Monitoring Well MW-1 indicate non-detectable concentrations (MDL between 3 & 20 ug/kg). A copy of the laboratory analytical reports are included in the Appendix to this report.

Analytical results of the recently sampled material from excavations, chemical storage tanks, sumps, and drains collected between August 14 and August 21, 1989, are pending their completion.

TABLE 1

RESULTS OF HYDROCARBON AND PCB ANALYSIS
SUBSURFACE SOIL SAMPLES

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

SAMPLE NO.	Diesel	Gasoline	Oil & Grease	PCB's
S-B1- 5.5	12	N D<10	845	N D<0.5
S-B1-10.5	N D<10	N D<10	N D<50	N D<0.5
S-B1-16	63	N D<10	1600	N D<0.5
S-B1-20.5	N D<10	N D<10	80	N D<0.5
S-B1-25.5	N D<10	N D<10	95	N D<0.5
S-B1-30.5	N D<10	N D<10	N D<50	N D<0.5
S-B2- 6.0	19	N D<10	1160	N D<0.5
S-B2-10	172	20	14,900	N D<0.5
S-B2-16	N D<10	N D<10	N D<50	N D<0.5
S-B2-20.5	N D<10	N D<10	N D<50	N D<0.5

Results: N D = Not Detected
Detection Limit for Diesel = 10 mg/kg
Detection Limit for Diesel, Sample No. S-B2-10 = 100 mg/kg
Detection Limit for Gasoline = 10 mg/kg
Detection Limit for Oil & Grease = 50 mg/kg
Detection Limit for PCB's = 0.5 mg/kg

S-B1-5.5
- S-B1-5.5 — depth in feet below grade
- S-B1-5.5 — boring number
- S-B1-5.5 — soil sample

TABLE 2

RESULTS OF METAL ANALYSIS OF SUBSURFACE SOIL SAMPLES

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

METAL	SAMPLE NUMBERS					MDL
	S-B1-5.5	S-B1-10.5	S-B1-16	S-B1-20.5	S-B1-25.5	
Tl	N D	N D	N D	N D	N D	2.2
As	N D	N D	N D	N D	N D	2.2
Hg	N D	N D	N D	N D	N D	5.0
Se	N D	N D	N D	N D	N D	5.0
Mo	N D	N D	N D	N D	N D	1.0
Sb	N D	N D	N D	N D	N D	1.0
Zn	94	5.4	6040	106	27	0.15
Cd	1.4	0.6	12	2.4	2.0	0.3
Pb	61	3	160	77	8.0	1.1
Co	5.7	2.6	12.4	4.5	8.0	0.5
Ni	14	12.7	30	19	24	0.65
Cr	13	12.5	42	15	10	0.15
V	15	7	32	12	12	0.1
Be	N D	N D	N D	N D	N D	0.025
Cu	28	4	153	23	13	0.1
Ag	N D	N D	N D	N D	N D	0.1
Ba	92	21	78	61	67	0.1

Results: N D = Not Detected
MDL = Method detection limit: Compounds below this level would not be detected. Values are in mg/kg.

S-B1-5.5
- 5.5 — depth in feet below grade
- B1 — boring number
- S — soil sample

TABLE 2
(continued)
RESULTS OF METAL ANALYSIS OF SUBSURFACE SOIL SAMPLES

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

METAL	SAMPLE NUMBERS					MDL
	S-B1-30.5	S-B2-6.0	S-B2-10	S-B2-16	S-B2-20.5	
Tl	N D	N D	N D	N D	N D	2.2
As	N D	N D	N D	N D	N D	2.2
Hg	N D	N D	N D	N D	N D	5.0
Se	N D	N D	N D	N D	N D	5.0
Mo	N D	N D	N D	N D	N D	1.0
Sb	N D	1.2	N D	N D	N D	1.0
Zn	15	67	532	23	11	0.15
Cd	1.2	1.6	N D	2.4	1.4	0.3
Pb	4.5	167	1360	11	8.7	1.1
Co	3.6	5	2.7	12	1.9	0.5
Ni	22	18.5	12.5	79	16.6	0.65
Cr	9.9	11.8	12.7	43	7.8	0.15
V	6.7	9.7	13	10	17	0.1
Be	N D	N D	N D	N D	N D	0.025
Cu	7.4	92	22.5	10	9.0	0.1
Ag	N D	N D	N D	N D	N D	0.1
Ba	23	109	41	95	35	0.1

Results: N D = Not Detected
MDL = Method detection limit: Compounds below this level would not be detected. Values are in mg/kg.

S-B1-30.5
- 30.5 — depth in feet below grade
- B1 — boring number
- S — soil sample

Conclusions and Recommendations

Laboratory analytical results of the soil and water samples collected from Monitoring Well B-1/MW-1 and soil boring B-2, indicate detectable concentrations of Total Petroleum Hydrocarbons (TPH) as diesel, TPH as gasoline, oil and grease, and CAM metals. Halogenated solvents and PCB's were nondetectable. Analytical results of soil, residue, and fluid samples from underground chemical storage tanks, drains, sumps, and associated cavities are pending their completion.

Based on Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes, the following analyzed samples were found to contain concentrations exceeding the Total Threshold Limit Concentration (TTLC) values:

Sample No.	Concentration	TTLC
S-B1-16	6040 Zinc	5,000 mg/kg
S-B2-10	1360 Lead	1,000 mg/kg

Please refer to the Appendix for the complete list of substances, the Soluble Threshold Limit Concentrations, and their Total Threshold Limit Concentrations in Title 22, Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes.

Concentrations of hydrocarbon contamination in some soil samples are above action levels as recommended by local regulatory agencies. However, this hydrocarbon contamination in the vicinity of the subject site has been well documented and does not appear to be a result of the current practices of MCRP. Uncontrolled dumping, resulting in the contamination of the subsurface, had been relatively common prior to and during the infilling of the bay in the late 1940's. The area south of the subject site to 64th Street was a municipal dump between 1940 and 1960.

Based on the site history prior to Mike Roberts Color Productions, the background values for contamination will be high in hydrocarbon, as well as other miscellaneous contaminants as indicated by high values for lead and zinc. Results from our additional analysis of drain residue and our understanding of the chemicals used during production at Mike Roberts should indicate contamination existing at the property is a result of dumping procedures prior to the present MCRP operations. Results of our earlier sampling of the drum storage facility at the rear of the site also supports our opinion.

Three additional ground water monitoring wells are scheduled for completion by August 28, 1989 (Figure 1). Their installation will enable ground water flow directions and gradients to be calculated. Sampling procedures will be conducted for soil and ground water collection in accordance with EPA and local regulatory guidelines.

Analytical results of the soil and ground water samples will be provided in our final report containing the pending analytical results from the tank excavation, sump, and drain sampling.

Limitations

The field investigation, laboratory testing, and analysis presented in this report were prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This investigation was conducted solely for the purpose of evaluating environmental conditions of the site with respect to hydrocarbon product, CAM metals concentration, pesticide, and chlorinated phenol contamination in the vicinity of the subject property. No soil engineering or geotechnical references are implied or should be inferred. Evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of available data points. Subsurface conditions may vary away from the available data points. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of study.

The information researched during our historical review to date was made available from government agencies and select interviews with relevant parties. We cannot make any assurances concerning the completeness of the data presented to us.

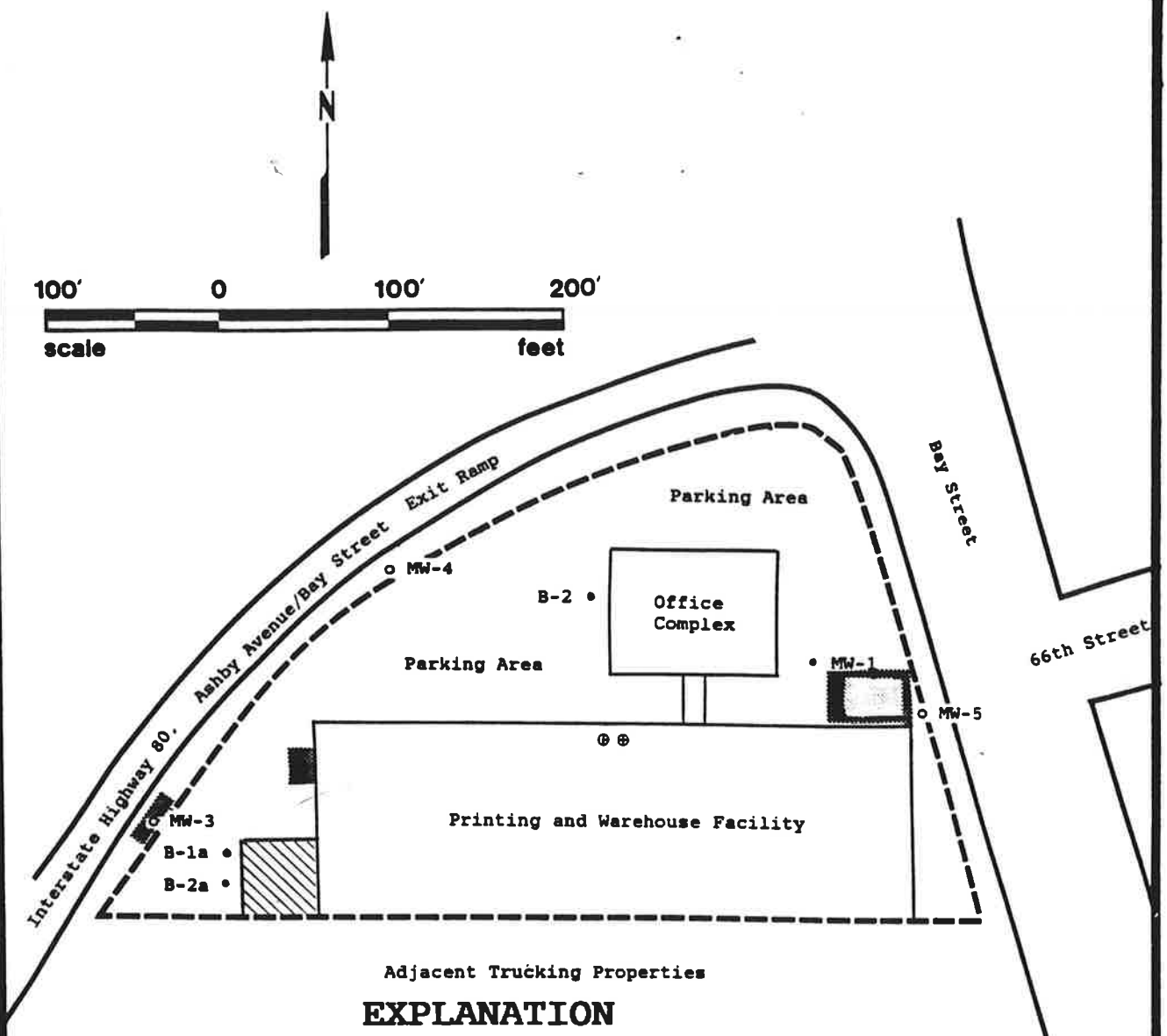
If you have any questions regarding this report, please contact the undersigned. We appreciate this opportunity to be of service.

Sincerely,

L & W ENVIRONMENTAL SERVICES, INC.

Jack Arendt
Project Manager
R.G. 4322

REGISTERED GEOLOGIST
JON (JACK) ARENDT
R.G.4322
Exp. 6-30-90
STATE OF CALIFORNIA



EXPLANATION

- • B-2 = Boring Location
- • MW-1 = Monitoring Well Location
- Property Line
- o MW-3 = Approximate Location of Proposed Monitoring Well
- ● = Approximate Location of Sumps
- Fenced Drum Storage Area
- Approximate Location of Underground Chemical Storage Tanks
- Approximate Location of Excavations

LW Environmental Services, Inc.
2111 Jennings St. San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

SITE PLAN

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

FIGURE 1

APPENDIX

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 07/05/89
Reported: 07/18/89
Job #: 70919

Attn: George Wilson
Mike Roberts Color Productions
7707 Bay Street
Emeryville, CA.

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70919-1	70919-2	70919-3	70919-4	70919-5		
Client ID:	S-B1-5.5	S-B1-10.5	S-B1-16	S-B1-20.5	S-B1-25.5		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	88
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	98
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	76
Mo	ND<1.0	ND<1.0	2.4	ND<1.0	ND<1.0	1.0	84
Sb	ND<1.0	ND<1.0	4	ND<1.0	ND<1.0	1.0	70
Zn	94	5.4	6040	106	27	0.15	85
Cd	1.4	0.6	12	2.4	2.0	0.3	86
Pb	61	3	160	77	8.0	1.1	84
Co	5.7	2.6	12.4	4.5	8.0	0.5	82
Ni	14	12.7	30	19	24	0.65	80
Cr	13	12.5	42	15	10	0.15	82
V	15	7	32	12	12	0.1	88
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	88
Cu	28	4	153	23	13	0.1	90
Ag	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	77
Ba	92	21	78	61	67	0.1	82

MDL: Method detection Limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70919

Analysis Method EPA 6010
Prep Method EPA 3050
mg/kg

Lab ID #:	70919-6	70919-7	70919-8	70919-9	70919-10		
Client ID:	S-B1-30.5	S-B2-6.0	S-B2-10	S-B2-16	S-B2-20.5		
METAL						MDL	% SPIKE RECOVERY
Tl	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	74
As	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	2.2	88
Hg	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	98
Se	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5.0	76
Mo	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.0	84
Sb	ND<1.0	1.2	ND<1.0	1.2	ND<1.0	1.0	70
Zn	15	67	532	23	11	0.15	85
Cd	1.2	1.6	ND<0.3	2.4	1.4	0.3	86
Pb	4.5	167	1360	11	8.7	1.1	84
Co	3.6	5	2.7	12	1.9	0.5	82
Ni	22	18.5	12.5	79	16.6	0.65	80
Cr	9.9	11.8	12.7	43	7.8	0.15	82
V	6.7	9.7	13	10	17	0.1	88
Be	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.025	88
Cu	7.4	92	22.5	10	9.0	0.1	90
Ag	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	0.1	77
Ba	23	109	41	95	35	0.1	82

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 07/05/89
Reported: 07/20/89
Job No #: 70919

Attn: George Wilson
Mike Roberts Color Production
7707 Bay Street
Emeryville, CA.

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Chloro -methane	Bromo -methane	Vinyl Chloride	Chloro -ethane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Methylene Chloride	1,1- dichloro -ethene	1,1- dichloro -ethane	Trans-1,2 dichloro -ethene	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

QA/QC: Spike Recovery for 1,1,1-trichloroethane: 115%

Surinder Sidhu
Senior Chemist

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70919

Lab ID	Client ID	Chloro -form	1,2- Dichloro -ethane	1,1,1- Trichloro -ethene	Carbon Tetra- Chloride	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Bromo- dichloro -methane	1,2- dichloro -propene	Tri- Chloro -ethene	Dibromo -chloro -methane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,1,2- Trichloro -ethane	Trans-1,3 dichloro -propene	2-Chloro -ethyl Vinyl ether	Tetra- chloro -ethene	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

Mike Roberts Color Productions
Job No. 70919

Lab ID	Client ID	1,1,2,2 Tetrachloro -ethane Chlorobenzene	Dichloro -difluoro methane	Trichloro- fluoro- methane	MDL
70919-1	S-B1- 5.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-2	S-B1-10.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-3	S-B1-16	ND<0.03	ND<0.03	ND<0.03	0.03
70919-4	S-B1-20.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-5	S-B1-25.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-6	S-B1-30.5	ND<0.03	ND<0.03	ND<0.03	0.03
70919-7	S-B2- 6.0	ND<0.03	ND<0.03	ND<0.03	0.03
70919-8	S-B2-10	ND<0.03	ND<0.03	ND<0.03	0.03
70919-9	S-B2-16	ND<0.03	ND<0.03	ND<0.03	0.03
70919-10	S-B2-20.5	ND<0.03	ND<0.03	ND<0.03	0.03

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

State License No. 211

Received: 07/05/89
Reported: 07/20/89
Job No #: 70919

Attn: George Wilson
Mike Roberts Color Productions
7707 Bay Street
Emeryville, CA.

Total Petroleum Hydrocarbon Analysis: By Modified Method 8015
Oil & Grease Analysis: By Standard Method 503D
Polychlorinated BiPhenyls Analysis: By EPA 8080
mg/kg

Lab ID	Client ID	TPH as Diesel	TPH as Gasoline	Oil & Grease	PCB's
70919-1	S-B1- 5.5	12	ND<10	845	ND<0.5
70919-2	S-B1-10.5	ND<10	ND<10	ND<50	ND<0.5
70919-3	S-B1-16	63	ND<10	1600	ND<0.5
70919-4	S-B1-20.5	ND<10	ND<10	80	ND<0.5
70919-5	S-B1-25.5	ND<10	ND<10	95	ND<0.5
70919-6	S-B1-30.5	ND<10	ND<10	ND<50	ND<0.5
70919-7	S-B2- 6.0	19	ND<10	1160	ND<0.5
70919-8	S-B2-10	172	20	14,900	ND<0.5
70919-9	S-B2-16	ND<10	ND<10	ND<50	ND<0.5
70919-10	S-B2-20.5	ND<10	ND<10	ND<50	ND<0.5

QA/QC: Spike Recovery for Diesel: 83%
Spike Recovery for Gasoline: 99%
Spike Recovery for Oil & Grease: 102%
Spike Recovery for PCB's: 98%

Detection Limit for Diesel: 10, #8 = 100
Detection Limit for Oil & Grease: 50
Detection Limit for Gasoline: 10
Detection Limit for PCB: 0.5

Surinder Sidhu
Senior Chemist

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: 9077-W-MW1-11
Sample Received: 07/07/89
Sample Analyzed: 07/10/89
Sample Matrix: WATER

Client: PRECISION ANALYTICAL
Client Ref. No.: 9077
Lab Client Code: 0642
Lab No.: 8907049-01A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: Method Blank
Sample Received: 07/07/89
Sample Analyzed: 07/10/89
Sample Matrix: WATER

Client: PRECISION ANALYTICAL
Client Ref. No.: 9077
Lab Client Code: 0642
Lab No.: 8907049-02A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

CHAIN OF CUSTODY RECORD 8907049

PROJ. NO. 9077

SAMPLERS: (Signature) Jack O'(Mike (Brown)

PROJECT NAME AND ADDRESS: Precision Analytical
4136 Lakeside Drive Richmond Ca - 94806.
(415) 222-3002 FAX (415) 222-1251
5day's Turn around.

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8240	TOTAL OIL & GREASE	8250	REMARKS
W-MW1-11	7/7/89				9077 - W - MW1 - 11				X		

ANALYSIS REQUESTED

RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	7/7/89 1:PM	Tony Dalco	7-7-89 2:15PM
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELINQUISHED BY: (Signature)	DATE / TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE / TIME

$$\text{Calculated oral or dermal } LD_{50} = \frac{100}{\sum_{x=1}^{n} \frac{\%Ax}{Ax}}$$

where %Ax is the weight percent of each component in the waste mixture and T_{Ax} is the acute oral or dermal LD_{50} or the acute oral LD_{LO} of each component.

NOTE: Authority cited: Sections 208, 25141 and 25150, Health and Safety Code. Reference: Section 25141, Health and Safety Code.

HISTORY:

1. Editorial correction filed 10-5-84; designated effective 10-27-84 (Register 84, No. 41).

66699. Persistent and Bioaccumulative Toxic Substance.

(a) Any waste is a hazardous waste which contains a substance listed in subsections (b) or (c) of this section:

(1) at a concentration in milligrams per liter as determined pursuant to Section 66700 which exceeds its listed soluble threshold limit concentration, or

(2) at a concentration in milligrams per kilogram in the waste which exceeds its listed total threshold limit concentration.

(b) List of Inorganic Persistent and Bioaccumulative Toxic Substances and Their Soluble Threshold Limit Concentration (STLC) and Total Threshold Limit Concentration (TTLC) Values.

	STLC	*TTLC*
Substance	*mg/l*	*Wet-Weight mg/kg*
Antimony and/or antimony compounds	15	500
Arsenic and/or arsenic compounds	5.0	500
Asbestos	–	1.0 (as percent)
Barium and/or barium compounds (excluding barite)	100	10,000††
Beryllium and/or beryllium compounds	0.75	75
Cadmium and/or cadmium compounds	1.0	100
Chromium (VI) compounds	5	500
Chromium and/or chromium (III) compounds	560	2,500
Cobalt and/or cobalt compounds	80	8,000
Copper and/or copper compounds	25	2,500
Fluoride salts	180	18,000
Lead and/or lead compounds	5.0	1,000
Mercury and/or mercury compounds	0.2	20
Molybdenum and/or molybdenum compounds	350	3,500
Nickel and/or nickel compounds	20	2,000
Selenium and/or selenium compounds	1.0	100
Silver and/or silver compounds	5	500
Thallium and/or thallium compounds	7.0	700
Vanadium and/or vanadium compounds	24	2,400
Zinc and/or zinc compounds	250	5,000

* STLC and TTLC values are calculated on the concentrations of the elements, not the compounds.

† In the case of asbestos and elemental metals, applies only if they are in a friable, powdered or finely divided state. Asbestos includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.

†† Excluding barium sulfate.

(2) Has an acute dermal LD_{50} less than or equal to 43 milligrams per kilogram; or

(3) Has an acute inhalation LC_{50} less than or equal to 100 parts per million as a gas or vapor; or

(4) Contains any of the substances listed in Section 66696(a)(5) at a single or combined concentration equal to or exceeding 0.1 percent by weight; or

(5) Has been shown through experience or testing to pose an extreme hazard to the public health because of its carcinogenicity, high acute or chronic toxicity, bioaccumulative properties, or persistence in the environment; or

(6) Is water-reactive.

(b) A waste containing one or more materials which are extremely toxic according to any criterion of paragraphs (a)(1) or (a)(2) of this section may be classified by the Department as not extremely hazardous if neither the calculated acute oral toxicity nor the calculated acute dermal toxicity of the waste using the equation in Section 66696(c) is numerically equal to or less than the toxicity limits prescribed in paragraphs (a)(1) or (a)(2) of this section and the waste is not extremely hazardous by any other criterion of this section.

NOTE: Authority cited: Sections 208, 25141 and 25150, Health and Safety Code. Reference: Section 25141, Health and Safety Code.

HISTORY:

1. Editorial correction filed 10-5-84; designated effective 10-27-84 (Register 84, No. 41).

66723. Total Threshold Limit Concentration Values of Persistent and Bioaccumulative Toxic Substances in Extremely Hazardous Wastes.

(a) Any waste containing a substance listed in subsection (b) of this section at a concentration equal to or exceeding its listed total threshold limit concentration is an extremely hazardous waste.

(b) List of Persistent and Bioaccumulative Toxic Substances and Their Total Threshold Limit Concentration (TTLC) Values.

Substance	*TTLC (Wet-Weight in mg/kg)*
Aldrin	140
Arsenic and/or arsenic compounds	50,000 (as As)
Beryllium and/or beryllium compounds*	7,500 (as Be)
Cadmium and/or cadmium compounds*	10,000 (as Cd)
Chlordan	250
2,4-Dichlorophenoxyacetic acid	10,000
Dieldrin	800
Dioxin (2,3,7,8-TCDD)	1
Endrin	20
Heptachlor	470
Kepone	2,100
Lead compounds, organic	1,300 (dry weight basis; as Pb)
Lindane	400
Mercury and/or mercury compounds	2,000 (as Hg)
Mirex	2,100
Polychlorinated biphenyls (PCBs)	5,000
Selenium and/or selenium compounds*	10,000 (as Se)
Thallium and/or thallium compounds*	70,000 (as Tl)
Toxaphene	500
2,4,5-Trichlorophenoxypropionic acid	1,000

* In the case of elemental metals, applies only if they are in a friable, powdered or finely divided state.

NOTE: Authority cited: Sections 208, 25141 and 25150, Health and Safety Code. Reference: Section 25141, Health and Safety Code.

(d) The Department may require a water supplier to make such additional tests as is judged to be warranted.

(e) Acceptable data from the provider wholesaling agency may be used to satisfy these requirements.

64433. Types of Analyses.

(a) As a minimum, analyses shall be made for the following constituents:

(1) General mineral analyses for bicarbonate, carbonate, and hydroxide alkalinity, calcium, chloride, copper, foaming agents (MBAS), iron, magnesium, manganese, pH, sodium, sulfate, specific conductance, total dissolved solids, total hardness and zinc.

(2) General physical analyses for color, odor and turbidity.

(3) Inorganic chemical analyses for arsenic, barium, cadmium, chromium, lead, mercury, nitrate (as NO_3), selenium silver and fluoride.

(4) Organic chemical analyses for endrin, lindane, methoxychlor, toxaphene and chlorophenoxys 2, 4—D and 2, 4, 5—TP Silvex.

NOTE: Authority cited: Sections 208 and 4026, Health and Safety Code. Reference: Section 4024, Health and Safety Code.

HISTORY:

1. New NOTE filed 12-7-84 (Register 84, No. 49).

64435. Maximum Contaminant Levels.

(a) Water containing contaminants exceeding the maximum contanimant levels shown on Tables 2, 3 and 4 presents a risk to the health of humans when continually used for drinking or culinary purposes.

Table 2

Maximum Contaminant Levels
Inorganic Chemicals

Constituent	*Maximum Contaminant Level, mg/l*
Arsenic	0.05
Barium	1.
Cadmium	0.010
Chromium	0.05
Lead	0.05
Mercury	0.002
Nitrate (as NO_3)	45.
Selenium	0.01
Silver	0.05

Table 3

Maximum Contaminant Levels
Organic Chemicals

Constituent	*Maximum Contaminant Level, mg/l*
(a) Chlorinated Hydrocarbons	
Endrin	0.002
Lindane	0.004
Methoxychlor	0.1
Toxaphene	0.005
(b) Chlorophenoxys	
2, 4—D	0.1
2,4,5—TP Silvex	0.01

LM

LW Environmental Services, Inc.
2111 Jennings Street, San Francisco, CA 94124-3224, Phone (415) 822-4555, FAX (415) 822-5290

89 NOV 31 AM 11:00

November 3, 1989
Project 9077-004

Mr. Robert P. Gates
Erskine & Tulley
580 Market Street
San Francisco, CA 94104

FINAL REPORT/TANK REMOVAL

RE: Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

Dear Mr. Gates;

As authorized the three underground storage tanks have been removed from the above site. In order to comply with requirements concerning removal of underground tanks, the following information is provided. A copy of the accepted Underground Tank Closure/Modification Plan is attached.

1. PRODUCT AND TANK REMOVAL

On October 2, 1989 the contents were removed from the three tanks. 1075 gallons of what had been profiled as Methyl Ethyl Ketone and water was pumped into a tank truck and delivered to an Treatment and Disposal Facility (TSD). Copies of the Chemical Profile Sheet and the Manifest of the removed tank contents are attached.

On October 5, 1989, the three tanks were each iced with 100 pounds of dry ice to purge all explosive and flammable mixtures before removal. After purging, the tanks were removed with a backhoe and loaded on a truck for delivery to a designated TSD Facility. A copy of the manifests for transport of the tanks is attached.

The soil excavated during the removal was stockpiled on site, and fenced as a security precaution.

2. SAMPLING PROCEDURES

After the tanks were removed on October 5, 1989, a soil sample was obtained from both the east and west end of each tank excavation for a total of 6 soil samples. This procedure was carried out under the direction of Dennis Byrne, a hazardous materials specialist with the Alameda Count Health Agency.

All the samples were taken by driving brass tubes into representative soil obtained by the backhoe.

All the samples were capped with aluminum foil and fitted with plastic end caps. The samples were then stored on ice and transported to Precision Analytical Laboratory, Inc. under Chain of Custody protocol for analysis. A copy of the Chain of Custody form is attached.

3. LABORATORY ANALYSIS AND PROCEDURES

Each soil sample was analyzed for Total Petroleum Hydrocarbons (TPH); Benzene, Toluene, Xylene, and Ethylbenzene (BTX&E) and Halogenated Volatile Organics. The analyses were performed using a Hewlett Packard 5890 Gas Chromatograph equipped with an FID Detector utilizing a capillary column. Methods employed were EPA Method 8020 for BTX&E, DHS(LUFT) for TPH, and EPA 8010 for Halogenated Volatile Organics.

4. ORIGINAL LABORATORY TEST RESULTS

Original, signed, laboratory certificates from Precision Analytical Laboratory, Inc. for each analysis are attached.

6. SITE PLAN

A Site Plan showing the general site location as well as the general tank and excavation area is attached as Figure 1. A Tank and Sample Location Plan is attached as Figure 2.

7. REPORTING

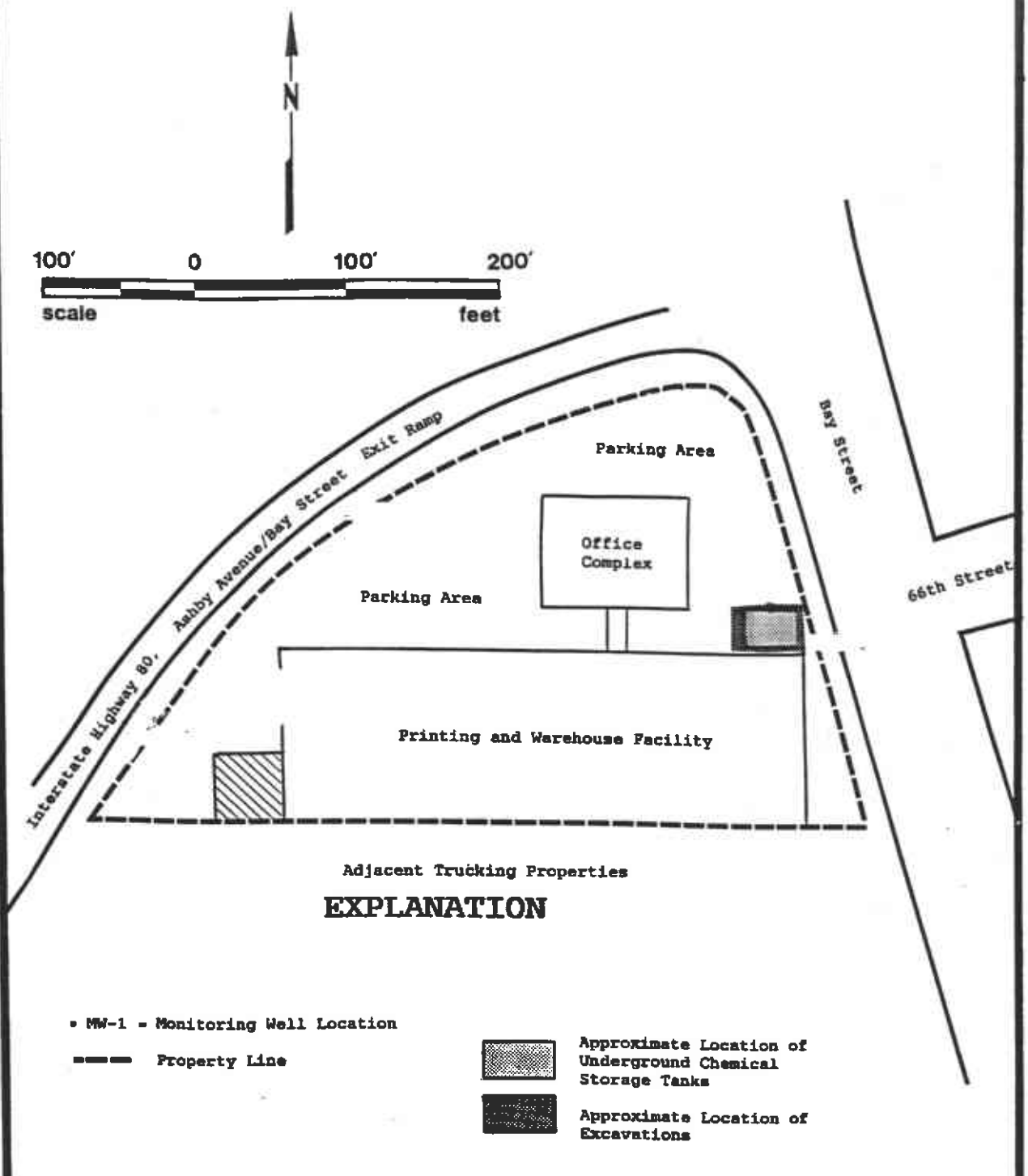
Based on the analytical results, an Underground Storage Tank Unauthorized Release Form/Contamination Site Report should be filed with Alameda County.

Sincerely,



John Carver
Civil Engineer 23772

George Wilson
Vice President



EXPLANATION

- MW-1 = Monitoring Well Location
- Property Line
- Approximate Location of Underground Chemical Storage Tanks
- Approximate Location of Excavations

LW Environmental Services, Inc.
2111 Jennings St. San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

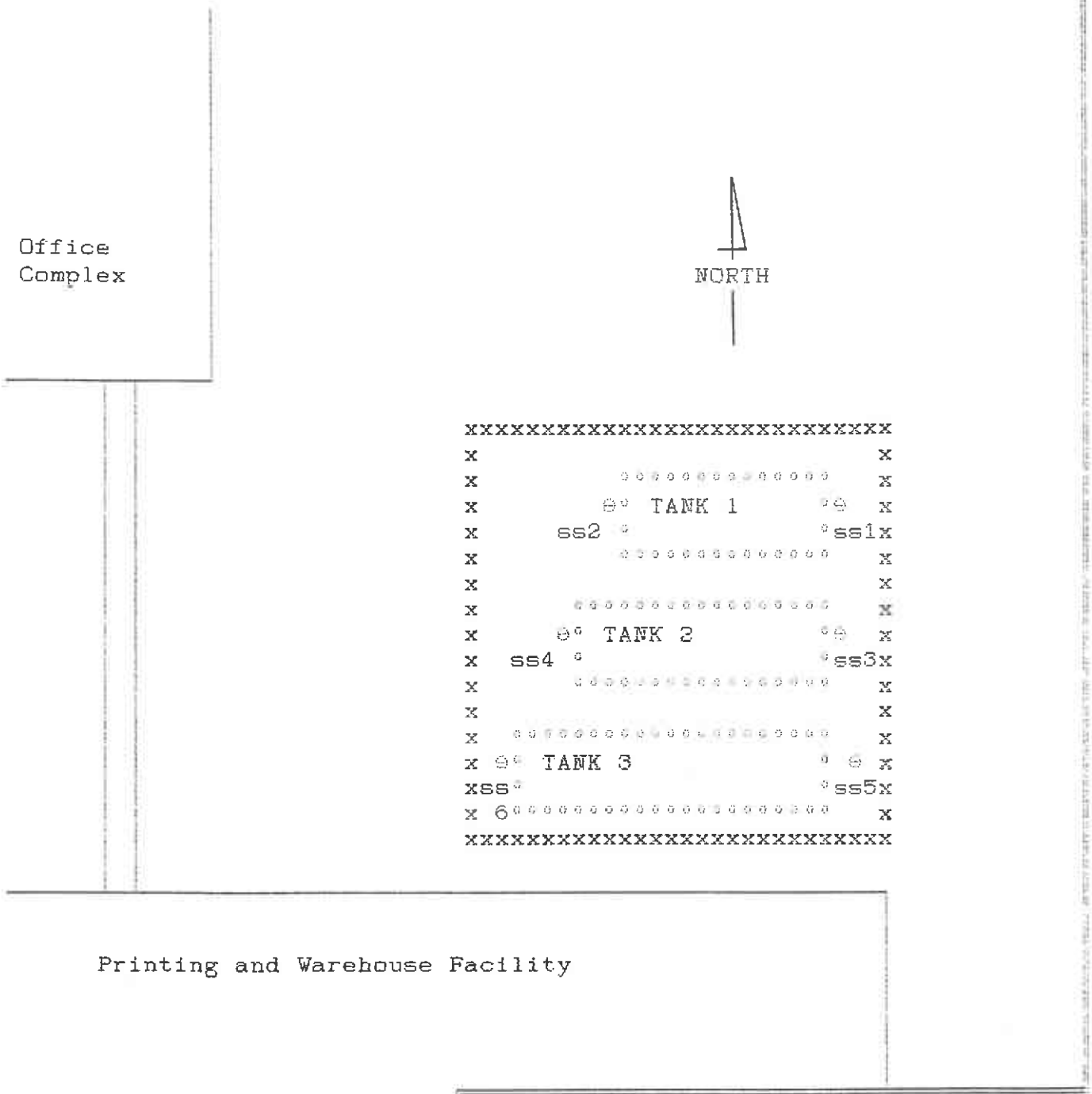
SITE PLAN

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077.004

Date: 11/3/89

FIGURE 1



KEY	
xxx	Approximate limits of excavation
ooo	Approximate tank limits
⊖	Approximate sample location

L&W Environmental Services
2111 Jennings Street
San Francisco, California

TANK AND SAMPLE LOCATION PLAN

Mike Roberts Color Production
6707 Bay Avenue
Emeryville, California

PROJECT NUMBER: 9077.004 | Date: 11/3/89 | Figure 3

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

COPY

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. **Business Name** Mike Roberts Color Production Inc.

   Business Owner Robert D. Roberts

2. **Site Address** 6707 Bay Street

   City Emeryville **Zip** 94608 **Phone** 652-1500

3. **Mailing Address** 340 Townsend #420

   City San Francisco **Zip** 94107 **Phone** 777-4247

4. **Land Owner** MIke Roberts Color Production Inc.

   Address 6707 Bay Street **City, State** Emeryville, Ca **Zip** 94608

5. **EPA I.D. No.** CAD 009133190

6. **Contractor** L & W Environmental Services Inc.

   Address 2111 Jennings Street

   City San Francisco, Ca 94124 **Phone** 822-4555

   License Type A/R Gen Eng **ID#** 507442

7. **Consultant** _____

   Address _____

   City _____ **Phone** _____

8. Contact Person for Investigation

Name George Wilson Title V. President - L & W Environmental Services,

Phone (415) 822-4555

9. Total No. of Tanks at facility 3

10. Have permit applications for all tanks been submitted to this office? Yes [X] No [ ]

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name Erickson EPA I.D. No. CAD009466392

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

b) Rinsate Transporter

Name Erickson EPA I.D. No. CAD009466392

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

c) Tank Transporter

Name Erickson EPA I.D. No. CAD009466392

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

d) Contaminated Soil Transporter

Name _____ EPA I.D. No. _____

Address _____

City _____ State _____ Zip _____

12. Sample Collector

Name Keith Jay

Company L & W Environmental Services, Inc.

Address 2111 Jennings Street

City San Francisco, State CA Zip 94124 Phone (415) 822-

12. Sample Collector

Name Keith Jay

Company L & W Environmental Services, Inc

Address 2111 Jennings, Street

City San Francisco State Ca Zip 94124 Phone (415) 822-455

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
2000	Solvent	Soil	Both ends of the tanks 2' below bottem of tanks
1650	Solvent	Soil	
3200	Solvent	Soil	

14. Have tanks or pipes leaked in the past? Yes [ ] No [X]

If yes, describe. _____

15. NFPA methods used for rendering tank inert? Yes [X] No [ ]

If yes, describe. 3.5 lbs. Dry Ice per 100 gallon capacity,

35 lbs. min per thousand gallon

An explosion proof combustible gas meter shall be used to verify tank inertness.

16. Laboratories

Name Precision Analytical Laboratory, Inc.

Address 1436 Lakeside Drive

City Richmond State CA Zip 94806

State Certification No. 211

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
Soil	SW - 846	TPH 8015 BTX & E 8020
Water, if water encountered		

18. Site Safety Plan submitted? Yes [X] No [ ]

19. Workman's Compensation: Yes [X] No [ ]

Copy of Certificate enclosed? Yes [X] No [ ]

Name of Insurer Republic

20. Plot Plan submitted? Yes [X] No [ ]

21. Deposit enclosed? Yes [X] No [ ]

22. Please forward to this office the following information within 60 days after receipt of sample results.

a) Chain of Custody Sheets

b) Original Signed Laboratory Reports

c) TSD to Generator copies of wastes shipped and received

d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Saftey and Health Administration) requirements concerning personnel and safety.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) _____

Signature _____

Date 8/29/89

X Signature of Site Owner or Operator

Name (please type) MRCP REALTY COMPANY (Owner)
MIKE ROBERTS COLOR PRODUCTIONS, INC. (Tenant/Operat

Signature Robert B. Gates, ATTORNEY
ERSKINE & TULLEY, P.C.

Date Aug. 29, 1989.

BAY AREA
EAST PALO ALTO, CA 94303
(415) 324-1638
FAX 415-324-2905

1638

Invoice Copy

PRICE QUE
DATE RECEIVED IN LAB

P.O. L-011707

ROMIC CHEMICAL SAMPLE PROFILE SHEET

GENERATOR EPA # CAD009133101

GENERAL INFORMATION

GENERATOR NAME Mike Roberts Color Productions
CITY ADDRESS 6707 Bay Street
Emeryville, CA 94608
BILLING ADDRESS 6707 Bay Street L&W Envir
Emeryville, CA 94608

TRANSPORTER
TRANSPORTER PHONE
TRANSPORTER EPA ID
TECHNICAL CONTACT George Wilson
TITLE V.P. PHONE (415) 822-4555

NAME OF WASTE Methyl Ethyl Ketone
PROCESS GENERATING WASTE Plastics Manufacturing (Unused Product)

PHYSICAL CHARACTERISTICS
COLOR: Clear

PHYSICAL STATE @ 70°F: SOLID ___ SEMI-SOLID ___ LIQUID X

LAYERS: MULTILAYERED ___ SINGLE PHASED X BI-LAYERED ___

FREE LIQUIDS: YES X NO ___ VOLUME 1270

pH: 4-6 ___ 7-10 ___ N/A ___ 11-12 ___ 13-14 ___ 6-8 X >12.5 ___ 7 ___ EXACT ___

SPECIFIC GRAVITY: <0.8 ___ 0.8-1.0 X 1.0-1.1 ___ 1.1-1.2 ___ >1.2 ___ EXACT ___

FLASH POINT: <70°F X >200°F ___ CLOSED CUP X 70°F-100°F ___ NO FLASH ___ OPEN CUP ___ 101°F-139°F ___ EXACT ___ 140°F-200°F

CHEMICAL COMPOSITION (TOTALS MUST EXCEED 100%)

Methyl Ethyl Ketone	98%+ %
H_2O	1-2% %
	%
	%
	%
	%
	%
	%
	%
	%

D. METALS ☐ TOTAL (PPM) ☐ EPA EXTRACTION PROCEDURE (MG/L)

	NONE	YES			NONE	YES	
ARSENIC (As)	X	☐	ND	SELENIUM (Se)	☐	X	0.9
BARIUM (Ba)	☐	X	0.03	SILVER (Ag)	X	☐	ND
CADMIUM (Cd)	☐	X	0.03	COPPER (Cu)	☐	X	0.06
CHROMIUM (Cr)	☐	X	0.015	NICKEL (Ni)	X	☐	ND
MERCURY (Hg)	X	☐	ND	ZINC (Zn)	☐	X	19
LEAD (Pb)	☐	X	0.3	THALLIUM (Tl)	X	☐	ND
CHROMIUM HEX (Cr+6)	X	☐	ND	OTHER ___	☐	☐	___

E. OTHER CONSTITUENTS TOTAL (PPM)

	NO	YES			NO	YES	
				AMINES	X	☐	ND
CYANIDES	X	☐	ND	PCBs	X	☐	ND.
SULFIDES	X	☐	ND	PHENOLICS	X	☐	ND

SHIPPING INFORMATION

PROPER SHIPPING NAME ___
HAZARD CLASS ___ I.D. # ___ P.G. ___
METHOD OF SHIPMENT: X BULK LIQUID 1,270 GALLONS
☐ DRUM (TYPE/SIZE) ___
ANTICIPATED VOLUME: 1,270 GALLONS
___ DRUMS
PER ☒ ONE TIME ☐ WEEK ☐ MONTH
☐ QUARTER ☐ YEAR ☐ ___

G. HAZARDOUS PROPERTIES ☐ NONE

☐ WATER REACTIVE	☐ AIR REACTIVE	☐ EXPLOSIVE
☐ SHOCK SENSITIVE	☐ PYROPHORIC	☐ POLYMERIZED
☐ RADIOACTIVE	☐ PESTICIDE RESIDUALS	☐ IGNITABLE
☐ CORROSIVE	☐ TOXIC VAPOR	☐ PATHOGEN
☐ BIOLOGICAL	☐ ETIOLOGICAL	

X OTHER Flammable Liquid

USEPA HAZARDOUS WASTE? X YES ☐ NO
USEPA HAZARDOUS CODE(S) UN1193
STATE HAZARDOUS WASTE? X YES ☐ NO
STATE CODE(S) 213

SPECIAL HANDLING INSTRUCTIONS:
Wear Personal Protective Equip. when handling.

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED. I ALSO CERTIFY THAT THE OBTAINED SAMPLE IS REPRESENTATIVE OF THE WASTE MATERIAL DESCRIBED ABOVE

AUTHORIZED SIGNATURE ___ TITLE ___ DATE 9.1.89

PERKIN-ELMER CORP. PART NO. N625-1026 8094

003

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD009133191 | Manifest Document No. 049941 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: MIKE ROBERTS COLOR PRODUCTIONS LP, 6707 BAY STREET EMERYVILLE, CA 94608
4. Generator's Phone: 415 495-1500

A. State Manifest Document Number: 8820401
B. State Generator's ID:

5. Transporter 1 Company Name: ROMIC CHEMICAL CORPORATION | 6. US EPA ID Number: CAD009145257
C. State Transporter's ID: 1000032177
D. Transporter's Phone: 415/324-1638

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

9. Designated Facility Name and Site Address: ROMIC CHEMICAL CORPORATION, 2081 Bay Road, East Palo Alto, CA 94303 | 10. US EPA ID Number: CAD009145257
G. State Facility's ID: CAD009145257
H. Facility's Phone: (415) 324-1638

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. MEYTHYL ETHYL KETONE FLAMMABLE LIQUID UN-1193	001	TT	0107	G	State 213 EPA/Other F005
b. DOT-E-7476					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: 98% MEYTHYL ETHYL KETONE 1-2% WATER

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

15. Special Handling Instructions and Additional Information: T2 17 IN

Gloves, Goggles, and Protective Clothing.

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

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

GENERATOR — Printed/Typed Name: JIM TRACY | Signature | Month Day Year: 11 01 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: FRANK DITCHER | Signature | Month Day Year: 11 02 89

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

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: JOHN BUTLER/GREGORY ELLISON/RAY BORowske | Signature | Month Day Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER (800) 424-8802 OR (202) 426-2675

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

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

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

Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD009133190 — Manifest Document No. 02541

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

3. Generator's Name and Mailing Address
MIKE ROBERTS COLOR PRODUCTIONS
6707 BAY STREET EMERYVILLE CA. 94608

4. Generator's Phone (415) 495-1500

A. State Manifest Document Number 88402541

B. State Generator's ID

5. Transporter 1 Company Name: Erickson Truck - Inc. — 6. US EPA ID Number: CAD099141663

C. State Transporter's ID 00384

D. Transporter's Phone 415-235-1393

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

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
ERICKSON, INC.
255 PARR BLVD.
RICHMOND, CA. 94801

10. US EPA ID Number: CAD009461639

G. State Facility's ID

H. Facility's Phone 415-235-1393

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	L Waste No.
a. WASTE EMPTY STORAGE TANKS CALIFORNIA REGULATED WASTE ONLY	003	T	17000	P	State 213 / EPA/Other F005
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
EMPTY MEYTHYL ETHYL KETONE TANK, #2269, #2270, #2271
ICED WITH 300 LBS DRY ICE

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

15. Special Handling Instructions and Additional Information

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

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

GENERATOR

Printed/Typed Name — Signature — Month Day Year: 10 17 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Robert Haney — Signature — Month Day Year: 10 25 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name — Signature — Month Day Year

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

Do Not Write Below This Line

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

88402541

PROJ. NO. 9679

SAMPLERS: (Signature) Keith Jay

PROJECT NAME AND ADDRESS: MIKE ROBERTS CEYOR PRODUCTIONS

6707 BAY STREET

EMERYVILLE, CA

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TOTAL PETROLEUM HYDROCARBONS	BTX	VOC-EPA 8010	TOTAL OIL & GREASE	TETRAMETHYL LEAD	HALOGENATEDS	REMARKS
SS-1	10/5/89	12:42P	X		E. END TANK 1 (BENEATH)	X	X				X	
SS-2	10/5/89	1:00P	X		W. END TANK 1 "	X	X				X	
SS-3	10/5/89	1:10P	X		E. END TANK 2 "	X	X				X	
SS-4	10/5/89	1:20P	X		W. END TANK 2 "	X	X				X	
SS-5	10/5/89	1:30P	X		E. END TANK 3 "	X	X				X	
SS-6	10/5/89	1:40P	X		W. END TANK 3 "	X	X				X	

RELINQUISHED BY: (Signature) Keith Jay — DATE 10/5/89 TIME 2:50P — RECEIVED BY: (Signature) — DATE 10/6 TIME 3:??P

RELINQUISHED BY: (Signature) — DATE ____ TIME ____ — RECEIVED BY: (Signature) — DATE ____ TIME ____

RELINQUISHED BY: (Signature) — DATE ____ TIME ____ — RECEIVED BY: (Signature) — DATE ____ TIME ____

RELINQUISHED BY: (Signature) — DATE ____ TIME ____ — RECEIVED FOR LABORATORY BY: (Signature) — DATE ____ TIME ____

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 10/05/89
Reported: 10/23/89
Job No. #: 71103

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions

Total Petroleum Hydrocarbon Analysis
By DHS Method (LUFT)
mg/kg

Lab ID	Client ID	Diesel	Gasoline	MDL
71103-1	SS-1 E. End Tank 1	12	* 12	10
71103-2	SS-2 W. End Tank 1	11	ND<10	10
71103-3	SS-3 E. End Tank 2	ND<10	ND<10	10
71103-4	SS-4 W. End Tank 2	60	* 240	10
71103-5	SS-5 E. End Tank 3	35	115	10
71103-6	SS-6 W. End Tank 3	700	460	100

* Weathered Gas

QA/QC: Spike Recovery for Diesel: 94%
Spike Recovery for Gasoline: 107%

MDL: Method detection limit: Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
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CERTIFICATE OF ANALYSIS

State License No. 211

Received: 10/05/89
Reported: 10/23/89
Job No #: 71103

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions

Aromatic Volatile Hydrocarbon Analysis:
EPA Method 8020
mg/kg

Lab ID	Client ID	Benzene	Ethyl-benzene	Toluene	Xylene	MDL
71103-1	SB1-E. End Tank 1	1.3	0.04	*	0.30	0.03
71103-2	SB2-W. End Tank 1	0.23	0.03	0.06	0.05	0.03
71103-3	SB3-E. End Tank 2	ND<0.03	ND<0.03	0.05	0.035	0.03
71103-4	SB4-W. End Tank 2	1.4	.11	*	1.1	0.3
71103-5	SB5-E. End Tank 3	ND<0.3	ND<0.3	*	1.0	0.3
71103-6	SB6-W. End Tank 3	4.6	ND<1.5	*	7.5	1.5

* Interference by 4-Methyl-2-Pentanone makes quantificate of toluene by PiD in sample impractical.

QA/QC: Spike Recovery for Benzene: 78%
Spike Recovery for Toluene: 80%
Spike Recovery for O-Xylene: 67%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
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CERTIFICATE OF ANALYSIS

State License No. 211

Received: 10/05/89
Reported: 10/26/89
Job No #: 71103

Attn: George Wilson
L & W Environmental Services
2111 Jennings Street
San Francisco, CA. 94124

Project: Mike Roberts Color Productions
Matrix: Soil

Halogenated Volatile Organics Analysis:
EPA Method 8010
mg/kg

Lab ID	Client ID	Methylene Chloride	1,1-dichloro-ethene	1,1-dichloro-ethane	Trans-1,2 dichloro-ethene	MDL
71103-1	SB1-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-2	SB2-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-3	SB3-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-4	SB4-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-5	SB5-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-6	SB6-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Chloro-form	1,2-Dichloro-ethane	1,1,1-Trichloro-ethane	Carbon tetra-chloride	MDL
71103-1	SB1-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-2	SB2-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-3	SB3-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-4	SB4-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-5	SB5-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-6	SB6-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

QA/QC: Spike Recovery Average: 82%

MDL: Method detection limit; Compound below this level would not be detected.

Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.
4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

L & W Environmental
Job No. 71103

Lab ID	Client ID	Bromo-dichloro-methane	1,2-dichloro-propene	Tri-Chloro-ethene	Dibromo-chloro-methane	MDL
71103-1	SB1-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-2	SB2-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-3	SB3-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-4	SB4-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-5	SB5-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-6	SB6-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,1,2-Trichloro-ethane	Trans-1,3 dichloro-propene	2-chloro-ethyl vinyl ether	Bromo-form	MDL
71103-1	SB1-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-2	SB2-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-3	SB3-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-4	SB4-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-5	SB5-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-6	SB6-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Tetra-chloro-ethane	1,1,2,2 Tetra-chloro-ethane	Chloro-benzene	1,3 Dichloro-benzene	MDL
71103-1	SB1-E.End	ND<0.03	ND<0.03	ND<0.03	0.12	0.03
71103-2	SB2-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-3	SB3-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-4	SB4-W.End	ND<0.03	ND<0.03	ND<0.03	2.0	0.03
71103-5	SB5-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-6	SB6-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	1,2-Dichloro-benzene	1,4-Dichloro-benzene	Dichloro-difluoro-methane	Trichloro-fluoro-methane	MDL
71103-1	SB1-E.End	ND<0.03	0.26	ND<0.03	ND<0.03	0.03
71103-2	SB2-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-3	SB3-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-4	SB4-W.End	0.07	2.4	ND<0.03	ND<0.03	0.03
71103-5	SB5-E.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03
71103-6	SB6-W.End	ND<0.03	ND<0.03	ND<0.03	ND<0.03	0.03

Lab ID	Client ID	Freon 113	MDL
71103-1	SB1-E.End	ND<0.03	0.03
71103-2	SB2-W.End	ND<0.03	0.03
71103-3	SB3-E.End	ND<0.03	0.03
71103-4	SB4-W.End	ND<0.03	0.03
71103-5	SB5-E.End	ND<0.03	0.03
71103-6	SB6-W.End	ND<0.03	0.03

McLaren

RECEIVED
NOV 29 1989
E & T - RPC

RECEIVED
NOV 27 1989
THE MARTIN CO.

November 21, 1989

Mr. Tom Gram
The Martin Group
6475 Christie Avenue, Suite 500
Emeryville, CA 94608

NOTES OF

Dear Mr. Gram:

PHASE I REVIEW OF DOCUMENTS AND VERIFICATION OF GROUNDWATER FLOW DIRECTION AT 6070 BAY STREET IN EMERYVILLE, CALIFORNIA

Per your request, a review was conducted of work performed to date at the Mike Roberts Color Production facility (MRCP) located at 6070 Bay Street in Emeryville, California as outlined in our authorization to proceed letter dated October 24, 1989. The purpose of the work was to determine if the work completed to date was sufficient to ascertain the extent of chemicals detected in soil and groundwater at the site.

The scope of work included a site visit and neighborhood drive-by, a review of published lists for known hazardous waste sites, surveying of four existing groundwater wells on the site, measurement of the water levels in the wells, verification of the groundwater flow direction, and a building walk through.

RECEIVED MAY 2 8 1991

This report presents the results of the work conducted, recommendations for further investigative activities, discusses the anticipated results of the proposed further investigative activities, and describes how this information could potentially be used to recommend to the agencies that the site has been characterized such that the only immediate future requirement is groundwater monitoring. To expedite the issue of this report, associated costs to implement the recommendations will be provided as a separate transmittal.

This report is organized as follows:

- Background;
- General Site Soil Conditions;
- General Site Groundwater Conditions;

- Metals in Soil;
- Groundwater Flow Direction;
- Surrounding Sites;
- Potential Sources of Oil and Grease Contamination;
- Chemical Use Areas; and
- Recommendations

Background

The site houses a printing and warehouse facility with a small adjoining office building. The balance of the site is paved parking lots to the east, north, and west of the buildings. Immediately to the south are two abutting warehouse type buildings; one is a trucking facility (Voitainer at 6603 Bay Street) and the other (6601/6602 Bay Street) is currently vacant. The area is generally light and heavy industrial with redevelopment and new construction of residential and commercial space occurring to the south. To the north of the site is the Highway 80 Ashby off-ramp and beyond that the Berkeley Marina park/lagoon. Figure 1 shows a plot plan of the site.

NOT INCLUDED

A total of fourteen documents were submitted to McLaren for review. LW Environmental and Kaldeveer Associates had performed a series of limited investigations which included sampling and analysis of drum and wastes, installation of soil borings and groundwater monitoring wells, sampling and analysis of soil and groundwater, review of neighboring hazardous waste site and historical aerial photographs, and removal of three underground tanks.

General Site Soil Conditions

NOT INCLUDED

Table 1 shows the analytical results of compounds identified in soil samples. Soil from various locations at the site were analyzed for petroleum hydrocarbons, metals, and volatile organic parameters. Most of the locations across the site showed some level of contamination by petroleum hydrocarbon constituents, at a variety of depths. Because there is an overlap between a diesel analysis by gas chromatography and a gravimetric method oil and grease determination, it is likely that the values found for oil and grease and diesel are both measuring the same

type of contamination at the site. Further, the oil and grease analytical method utilized in some samples (EPA 9071) would also detect vegetable fats and oils as well as petroleum hydrocarbons.

Levels of total petroleum hydrocarbons as gasoline (TPH/G) and diesel (TPH/D) in soils were low for the majority of the site. The maximum concentrations of TPH/G and TPH/D were located near the former underground storage tanks (boring B-3 at a depth of 15 feet, and samples taken during the tank removal). Also, TPH/G was detected near the drum storage area, upgradient of well W-5, at a concentration of 300 ppm from a depth of 10 feet. The only other location in which TPH/D or TPH/G were detected at a level above 100 ppm was from B-2 at a depth of 10 feet (172 ppm of TPH/D).

Oil and grease levels in site soils were much higher than TPH/D or TPH/G. This indicates that the majority of hydrocarbons present in site soils may be compounds of high boiling range and high molecular weight. These compounds would generally be expected to exhibit low mobility and are not expected to pose a threat to groundwater. Oil and grease was identified in samples taken from 6, 11, and 15 foot intervals. Samples from the 20 foot interval along the eastern side of the site (MW-1, -3, & B-2) were either free of contamination or showed only low levels of oil and grease, while 20 foot samples from the western side of the site (MW-5 & -6) showed moderate levels of oil and grease.

General Site Groundwater Conditions

Groundwater was encountered at the site between 9 and 12 feet. Existing chemical analysis of groundwater from the wells on-site (MW-1, -3, -5, & -6) has revealed contamination in only one well, MW-5 at the western boundary of the site. Low levels of benzene, vinyl chloride, trans-1,2-dichloroethylene, naphthalene, 2-methyl naphthalene, and 2,4-dimethyl phenol were identified in MW-5. Of these chemicals, the levels of benzene (8 ppb), vinyl chloride (4 ppb), and trans-1,2-dichloroethylene (8 ppb) pose the greatest concern. The concentrations of these compounds exceed the levels set by the Department of Health Services Maximum Contaminant Level for contaminants in drinking water.

Table 2 presents the findings of groundwater analyses at the site and Figure 1 shows the site and sampling locations. The presence of chlorinated compounds in MW-5 may be related to release of solvents, or may be intermediate breakdown products associated with microbial degradation of petroleum related compounds. Well MW-5 is located near the

WHICH MAP?

southwestern property boundary and may be impacted by migration of off-site contaminants.

Metals in Soils

Moderate amounts of heavy metals contamination were identified in soil in the vicinity of the former underground tanks and the drum storage area. However, elevated metals were also found in soil at location B-2, just west of the office building where no chemical usage appears to have occurred. The presence of metals in soil may be due to chemical leakage, but elevated levels could also be due to debris in fill materials present beneath the site. // *

The presence of elevated levels of zinc (6040 ppm) in MW-1 soil at the 16 foot depth may be due either to leakage from the nearby underground tanks or historic fill materials. This level exceeds the California Title 22 Total Threshold Limit Concentration of 5000 ppm defining the soil as a hazardous waste.

Metals in soil could potentially impact the groundwater at the site. Only well MW-1 has been sampled for metals. This well showed the presence of lead at 63 ppb and chromium at 64 ppb which slightly exceeds the state Maximum Contaminant Level for drinking water sources of 50 ppb for lead or chromium. Thus, sampling of groundwater wells for metals is recommended to determine if metals in soil warrants further concern. The installation of a groundwater monitoring well is also recommended near boring B-2 to determine to what extent metals in this area have impacted the groundwater. //

Groundwater Flow Direction

Previous work shows the groundwater flow direction to be to the northwest. Because other sites in the general vicinity have southwesterly or westerly groundwater flow directions, McLaren resurveyed the wells and measured the current water levels. McLaren used an oil-water interface probe to determine if floating product was present. Results of this work verified that the apparent groundwater flow direction is to the northwest and did not reveal any floating product to be present. Groundwater flow in the area may be influenced by land patterns prior to filling and the pools of water present at the nearby Berkeley Marina. Since the groundwater flow direction parallels the site ground surface topography, the groundwater flow appears to be controlled by topography.

Surrounding Sites

No known hazardous waste sites are present immediately upgradient of the subject site except the 6601/6602 Bay and 6603 Bay (Voitainer) facilities where leaking diesel tanks have been excavated and floating product is present in open excavations. While an obvious release to groundwater is evidenced by the presence of floating product in the tank pit, the site is not yet listed on the Regional Water Quality Control Board (RWQCB) fuel leak list. Monitor wells on the Voitainer facility were being surveyed by EA Engineering on November 20, 1989. The 6601/2/3 Bay Street site is immediately to the southwest of MW-5, the only well on-site showing groundwater contamination.

Other nearby potential chemical users which are upgradient of the subject site include Reyerson Steel and Grove Valve and Regulator, but neither of these sites are listed as having a known underground tank leak.

Henry Horn and Sons and HJH Limited at 6400 Hollis Street, both approximately 0.25 mile southeast of the site have documented fuel leaks. Known problem sites which are located cross gradient within 0.25 mile of the subject site include the Emeryville Bayfront/US Postal Service at 1650 65th Street, Peterson Manufacturing at 1600 63rd Street, Garrett Freight Line at 64th and Laccate, Bay Center Project at 65th and Christie, Texaco at 840 Ashby, Bay Export Services at 717 Porter, and Gring Pest Control at 741 Folger. All sites are fuel leak sites indicating the primary contaminants may be similar to those encountered on the subject site. *

Potential Sources of Oil and Grease Contamination

Several scenarios can be proposed to explain the widespread presence of oil and grease contamination found on-site:

- High levels of oil and grease are present in groundwater across the site and the groundwater has risen and fallen (due to tidal action, seasonal fluctuations, or groundwater pumping) resulting in a smearing of the contamination on soil above and below the current water table. This scenario seems unlikely since the groundwater samples do not indicate the presence of oil and grease, TPH/D, or TPH/G;

- Fill materials (known to be debris as well as soil) deposited at the site in the past may have been composed of materials containing petroleum hydrocarbons or vegetable and animal fats.

An area just to the south of the subject site is known to have been used as a municipal landfill from approximately 1940 and 1960, and this may have resulted in oil and grease containing materials being either dumped on the subject site or on an adjacent area;

- Chemicals used at nearby sites, either from underground tank leaks or surface spills, may have impacted off-site groundwater which is migrating onto the subject site; or

- The underground tanks or surface spillage at the subject site may have resulted in localized impacts to the site soil and/or groundwater.

Because the hydrocarbons observed in soil are so widespread across the site and are present at both shallow and deep depths, and the groundwater does not contain detectable levels of diesel or oil and grease, it is likely that one of the last three scenarios is occurring. The oil and grease soil contamination appears to be from a separate source than the groundwater contamination observed in MW-5. At this time, it appears that the widespread oil and grease contamination is not due to leakage of the former underground tanks on-site or surface spillage at the drum storage area. Because diesel and oil and grease contamination was not identified in any of the groundwater wells, the widespread soil problem may be most likely due to historical fill materials on-site.

Chemical Use Areas

Several former chemical use areas are present at the site:

- Drum Storage Area;

- Underground Tanks;

- Exterior Sump; and

- Building Interior.

The following discusses each known chemical use area, the results of previous investigations in each area, and potential concerns, if any, associated with each area. No chemical usage was apparent in the north and east parking lots, and the reports reviewed did not make mention chemical usage in these areas.

Drum Storage Area

A fence drum storage area is located along the west side of the printing/warehouse building. Small chemical containers, approximately drums, a storage shed, and miscellaneous equipment were noted stored within the area. On October 17, 1989, the surface was observed to be stained and cracked and a white granular substance was present on the concrete surface. Stains were evident on the pavement where run-off has occurred from the west edge of the bermed area to the curb at the western property boundary. However, on November 20, 1989, no stains were noted on the pavement and the rainfall in late October may have washed the stains off the pavement.

Low levels of volatile organics were identified in soil from the two borehole locations adjacent to the drum storage area (B-1a and B-2a, also referenced in the reports as IS-1 and IS-2). This indicates it is likely some surface contamination has taken place in the drum storage area. Preliminary investigations adjacent to this area indicate elevated levels of metals, volatile aromatic compounds, and petroleum compounds to be present.

Soil samples from the rear excavation surrounding MW-5, downstream of the drum storage area, revealed low to moderate levels of toluene, ethylbenzene, and xylene. These compounds are typically found in gasoline or diesel fuel. Their presence in this area is either due to run-off from the drum storage area, release of chemicals to surface in this area, or the presence of a hydrocarbon plume which may have originated off-site. These compounds have also been detected in the groundwater from MW-5.

Another groundwater monitor well should be installed upstream of MW-5, as close to the property boundary as possible, to determine if the source of chemicals to MW-5 is from off-site or from chemicals in soil near the drum storage area.

The materials in the drum storage area should be inventoried and disposed of as appropriate. If the materials are hazardous waste, regulations require that they be stored for no longer than 90 days unless the facility has a treatment, storage, or disposal facility (TSDF) permit. This task is not included in the proposed scope of work.

Underground Tanks

Three underground tanks were previously located on the northeastern corner of the printing/warehouse building. The tanks have been removed, the excavation left open and fenced, and piles of soil left in place around the area. McLaren's initial site inspection on October 17, 1989 revealed floating globules of non-miscible products to be present in the groundwater present in the excavation (the groundwater as viewed from the surface appeared orange in color with a black sheen). An odor of acetone was noted in this area. On November 20, 1989, the tank pit did not contain water.

The LW Environmental report dated November 3, 1989 indicates the composition of the wastes formerly stored in the three underground tanks on-site to be 98% methyl ethyl ketone. Soil samples were not analyzed for this chemical, so it cannot be positively determined if the tanks were leaking.

While petroleum hydrocarbons as TPH/D and TPH/G were found in the soil samples taken beneath the tanks, it cannot be determined without further investigation whether this is due to tank leakage or one of the scenarios outlined above. Soil samples from beneath the tank should be analyzed for methyl ethyl ketone to determine if the tanks leaked.

Per the Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks (Regional Board Guidelines), dated June 2, 1988, the TPH level which triggers the need for additional investigation is 100 ppm. The guidelines require that a monitor well be installed within 10 feet of the tank, in the verified downgradient direction, if TPH is detected above 100 ppm in soils from beneath the tanks. Since a well already exists approximately 20 feet downgradient of the tank pit, MW-1, this requirement may be argued to have already been fulfilled. If groundwater contamination is discovered, a monitoring well sampling frequency must be established with Regional Board staff concurrence. If groundwater contamination is not discovered, some minimum groundwater monitoring may still be required.

To minimize potential problems in this area in the future, we recommend that surrounding soils be excavated to a limit of 100 ppm for TPH/D and TPH/G and that the groundwater in the tank pit be sampled if its presence reoccurs. Well MW-1 should also be sampled and analyzed for methyl ethyl ketone. A letter should be sent to the Regional Board to document the presence of Well MW-1, present the results of groundwater analysis which

DONE-

do not show TPH/D or TPH/G contamination, and inquire about future monitoring needs.

Exterior Sump

Stains were observed near the sump. However, soil samples from the area adjacent to the exterior sump along the west side of the building did not reveal significant levels of contamination, indicating this area is not likely to be a source area. Therefore, no further investigation is recommended in this area.

Building Interior

Two floor sumps (one circular and one square) were identified near the middle of the northern side of the printing and warehouse facility. An air compressor was reported to previously be located in this area. Two trenches of approximately one foot depth and twelve foot length were identified on the southern side of this area, east of the two floor sumps. Additionally, in the southwestern portion of the building, an area was identified which appeared to have been repaved. This area was reported to be the location of an extruding machine used by the previous building tenant.

The as-built design drawings of the facility should be reviewed to determine the former use of the floor sumps, trenches, and type of extruding machine. A groundwater monitor well should be installed downstream of the building to determine if the noted areas contributed contaminants to the subsurface which have impacted groundwater. This well would preferably be located close to the warehouse building and south of boring B-2.

Recommendations

Further Review of Neighboring Sites and Historical Chemical Usage

McLaren recommends information be obtained from the City of Emeryville and the RWQCB regarding the status, extent, and type of contaminants for those sites not reviewed by McLaren during the Marketplace site project. This information will be used to determine if off-site contamination and migration are potential sources of chemicals detected in soil and groundwater at the site. Additional historical information on chemical usage appears warranted to assure that all potential sources have been addressed.

REDUNDANT!

Underground Tanks

McLaren recommends that if groundwater reoccurs in the tank pit, that it be sampled and analyzed to comply with regulations. Also, soils should be further excavated in this area to a limit of 100 ppm TPH/D and TPH/G. Soils samples from beneath the tanks should be analyzed for methyl ethyl ketone to determine if the tanks leaked. A letter should be sent to the Regional Board which documents the tank pull activities, discusses the existence of downgradient monitor well MW-1, presents groundwater sampling results and future excavation plans, and inquires about a monitoring schedule.

Groundwater Sampling

The four monitoring wells on-site should be sampled for a second time for three reasons: to obtain additional data to establish a baseline for the site prior to encroachment of contamination from the neighboring site onto the subject site, to analyze for selected compounds not previously requested, and to ensure that correct sampling and analytical procedures are utilized to prevent false negative results for petroleum analyses. The wells should be submitted for analysis of TPH/D, oil and grease, volatile organics by Method 8240 (including methyl ethyl ketone and acetone), semi-volatile organics by Method 8270, and metals.

Should petroleum products as TPH/D and TPH/G be confirmed to only exist in the southwestern corner of the site, the case may be made that oil and grease contamination in soils is not adversely affecting the groundwater. Further, if metals are not detected in groundwater, the case may be made that the presence of metals in soil is not adversely affecting the groundwater, and hence, may only be a problem if the soil is excavated and requires disposal.

Installation of Well and Soil Borings Upgradient to Well MW-5

To determine whether contaminated groundwater is migrating onto the subject site from the adjacent 6601/2/3 Bay Street facility to the south or coming from the drum storage area, a new well should be installed between the MW-5 and the leaking tank area on the adjoining property. This well should be located as close to the property boundary as possible. The wells should be sampled and analyzed as noted for existing wells. Additionally, two soil borings should be installed beneath the drum storage area to help determine if soils in this area may be the source of chemicals to the groundwater in MW-5.

- The presence of low levels of volatile chemicals in Well W-5 is due to off-site contamination; ✓
- The removal of the underground storage tanks will satisfy regulatory requirements; ✓
- The presence of metals in soil is not substantially impacting the groundwater and is not a problem unless the soil is excavated and requires disposal. ✓

The results of the further investigation will be used to recommend to the agencies that the site has been characterized such that the only immediate future requirement is groundwater monitoring.

If you have any questions regarding this report or require cost information, please do not hesitate to call.

Sincerely,

Linda Thompson

for: Susan Gahry
Supervising Engineer

PES Environmental, Inc.
Engineering & Environmental Services

91 DEC 11 AM 11:38

December 9, 1991

MP001B

Mr. Dennis Byrne
Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

LETTER REPORT
NADY SYSTEMS, INC. SITE
6707 BAY STREET
EMERYVILLE, CALIFORNIA

Dear Mr. Byrne:

This letter summarizes the results of PES Environmental, Inc.'s (PES') evaluation and investigation of site conditions in the vicinity of the former underground storage tanks at the Nady Systems, Inc. (Nady) site in Emeryville, California (Plate 1). The scope of work for this project included the following tasks:

(1) Review existing data for the site to assess the adequacy of site characterization;

(2) Visit the site to inspect the soil vapor and groundwater extraction and treatment systems and to evaluate the effectiveness and operational status of these systems;

(3) Drill two soil borings in the area of the former underground storage tanks (UST), and collect and submit four soil samples for chemical analysis to confirm the effectiveness of the vapor extraction system;

(4) Sample three monitoring wells in the area of the former underground tanks to evaluate current groundwater conditions; and

(5) Prepare this report.

The objective for performing these tasks was to evaluate existing data, to perform confirmation soil and groundwater sampling, and, based on the results of this investigation, offer recommendations to meet requirements for final site cleanup approval.

BACKGROUND

Site History

Historical aerial photographs indicate that the site was part of the San Francisco Bay prior to in-filling conducted in the 1940s and early 1950s. From then until approximately 1959, the actual site use is uncertain. Between 1959 and 1963, the existing building was constructed. The site was owned and occupied by Esselte Pendaflex who apparently required the use of several USTs. Esselte Pendaflex subsequently sold the property to MRCP Realty. MRCP Realty discovered the tanks in 1988 and the tanks were removed in the fall of 1989. The property was subsequently sold to Nady Systems, the current owner.

Previous Investigations

Several environmental investigations have been conducted at the site. LW Environmental Services submitted an Environmental Site Assessment-Phase II Subsurface Evaluation in September, 1989. In November, 1989 McLaren performed a Phase I Review of Documents and Verification of Groundwater Flow Direction for the site. SCS Engineers submitted an Environmental Assessment dated January 30, 1990, a Soil Vapor Recovery and Groundwater Remediation Systems plan in February, 1990 and an Interim Report One in February, 1991. A variety of other reports and correspondence, received by PES on June 10, 1990, were also reviewed. Data from these reports were evaluated, and where applicable, are summarized below.

HISTORICAL SITE CONDITIONS

The site houses an office building and a warehouse currently used for storage and packaging of electronics equipment.

Based on lithologic logs from onsite wells and borings, the site is underlain by fill and construction debris from the ground surface to an approximate depth of 10 to 20 feet. The fill is underlain by poorly graded sand and bay mud.

Onsite Soil Conditions

Soil contaminants previously detected by others in the former UST area consist of 4-methyl-2-pentanone (methyl isobutyl ketone, or MIBK) and oil and grease. Soil samples from MW-8 near the former underground tanks contained up to 8.3 ppm of MIBK.

High concentrations of total oil and grease were also detected in soils throughout the site. The concentrations ranged from 2,000 to 20,000 ppm in the area of the former underground tanks. The elevated concentrations were detected primarily at depths of 5 to 10 feet below

ground surface. The wide distribution of high oil and grease concentrations coupled with their depths in soil suggest that they were probably deposited during in-filling in the area. The regional presence of the oily soil was confirmed in a conversation with Dennis Byrne of the Alameda County Department of Environmental Health on August 5, 1991. In general, the individual compounds that are detected in a total oil and grease analysis are relatively immobile and are not readily transported in groundwater.

Onsite Groundwater Conditions

Based on the historical data provided, the direction of groundwater flow appears to be toward the west-northwest at an approximate gradient of 0.007 feet per foot. The flow direction is consistent with an expected migration direction toward the San Francisco Bay. Monitoring well locations are shown on Plate 1 and the chemical data described below are summarized in Table 2.

In the vicinity of the former USTs, volatile organic compounds (VOCs) were detected in groundwater, including MIBK, benzene, acetone, and 2-butanone. Well MW-8, located immediately downgradient from the former UST area, was the only well with detectable concentrations of these VOCs. Historically, no detectable concentrations of these compounds were found in wells MW-3, located immediately upgradient of the former USTs, and MW-1, approximately 50 feet downgradient, respectively. The concentrations of VOCs in the area of MW-8 suggest that the former tanks or associated piping were a probable source of contaminants. The lateral extent of groundwater contamination from the UST area appears to be limited.

REMEDIATION SYSTEMS

In September, 1990, SCS Engineers installed a soil vapor extraction and treatment system to remediate soils in the former UST area, and a groundwater extraction and treatment system to address groundwater contamination.

Soil Vapor Extraction and Treatment System

The soil vapor extraction and treatment system consists of two vapor extraction wells piped to a regenerative blower. Two passive recharge wells were installed to facilitate vapor movement through subsurface soils in the former UST area. The extracted vapors are directed through a particulate filter and a water knockout. The vapors are then treated by carbon adsorption in two 200-pound activated carbon canisters connected in series. Plate 4 presents a schematic flow diagram of the soil vapor system. The system was operated from July to February, 1991 and was reported by SCS to have reduced the total volatile organic vapor concentrations in soil to less than 10 ppm.

Groundwater Extraction and Treatment Systems

A groundwater extraction and treatment system was installed to remove and treat contaminated groundwater from well MW-8. Plate 5 presents a schematic diagram of the groundwater extraction and treatment system. The extraction system consists of a pneumatically operated pump system that discharges to three 200-pound activated carbon canisters connected in series. The canisters are equipped with sample ports to monitor treatment system performance. The discharge from the last canister flows through a totalizing flow meter and is then combined with the effluent from another groundwater treatment system prior to discharge to onsite landscaping.

The system was operated from October, 1990 to March, 1991 and based on the flow rate of the extraction system and the reported MIBK concentrations in extracted groundwater, PES estimates that approximately three pounds of MIBK were removed during operation of the groundwater remediation system.

CONFIRMATION SAMPLING

In order to confirm previous data and to evaluate current site soil and groundwater conditions, PES performed soil and groundwater sampling at the former UST area. The following sections describe the soil and groundwater sampling methodology, analytical program, and results of the analyses.

Soil Sampling Methodology

Two soil borings for this investigation were drilled on September 5, 1991 with a truck-mounted hollow-stem auger rig. Boreholes were advanced using a 3.75-inch I.D. hollow-stem auger. Discrete soil samples were collected during drilling at approximately 2.5-foot intervals. The samples were collected by driving a 2-inch-diameter split spoon sampler lined with stainless steel tubes through 18 inches of undisturbed soil. The samples were used for

lithologic description and screened for the presence of organic vapors using a photo ionization detector (PID). One tube from each sample was wrapped with aluminum foil, secured with vinyl caps, and taped to the stainless steel liner to prevent moisture and contaminant loss. Two samples from each boring were submitted to Anametrix Analytical Laboratory, a California State-certified laboratory, for chemical analysis. The samples were labeled to designate boring number, depth, and time, and were stored in a chilled, thermally insulated cooler until shipped to the laboratory for later chemical analysis.

Soil boring locations are shown on Plate 1, and lithologic logs are presented in Appendix A. Chain of custody records for soil samples are attached to the analytical results included in Appendix C.

Soil cuttings generated during drilling were stored onsite in 55-gallon drums until proper disposal is arranged.

Well Sampling Methodology

Groundwater levels were measured in MW-1, MW-3 and MW-8 prior to purging or sampling. Elevation of groundwater in these wells is shown on Plate 2. Groundwater samples were collected from wells MW-1, MW-3, and MW-8 on September 5, 1991. Prior to evacuation, the extraction pump was removed from MW-8, and biofouling residue appeared to be present on the pump and associated tubing. A minimum of three well volumes were evacuated from each well prior to sampling using a teflon bladder pump. Groundwater samples were collected in clean 40-milliliter glass vials with teflon caps. During pumping the discharge water was measured for pH, temperature, turbidity, and electrical conductivity. The samples were labeled to designate sample number, time and date collected, and analyses requested and were stored in a chilled, thermally insulated cooler until shipped to the laboratory for later chemical analysis. The information collected during the groundwater sampling event and the chain of custody records for groundwater samples are presented in Appendix C.

Well development water and sampling purge water is temporarily stored onsite in 55-gallon drums until proper disposal is arranged.

Drilling and Sampling Equipment Decontamination

To avoid cross contamination, all equipment used for drilling, soil and water sampling was decontaminated prior to each sampling event. Drilling equipment was cleaned onsite with a combination steam/high pressure wash system. Sampling spoons used repeatedly in the same boring were decontaminated by washing between sampling efforts with a non-phosphate soap and water solution with a potable water rinse. Water sampling equipment, including pumps, lines, and bailers, were cleaned offsite with combination steam/high pressure water wash.

Results of Soil Sample Analysis

The four soil samples collected from borings PB-1 and PB-2 were sent to Anametrix, a state-certified analytical laboratory. The soil samples were selected based on the results of field screening and analyzed for volatile organic compounds (VOCs) with an extended scan targeted for methyl isobutyl ketone (MIBK) by EPA Method 8240. No chemicals were detected above the method detection limit however; the results of chemical analyses indicate that only benzene and two dichlorobenzene isomers were detected at or below the method detection limit of 0.005 ppm. Analytical results are presented in Appendix B and are summarized in Table 1. (Note: Under some circumstances, analytical laboratories are technically able to quantify chemicals present at concentrations below the method detection limits; such is the case for the dichlorobenzene isomers reported for this investigation.)

Results of Groundwater Sample Analyses

Groundwater samples collected from wells MW-1, MW-3 and MW-8 were sent to Anametrix, a state-certified laboratory, and analyzed for VOCs with extended scan by EPA Method 8240. For quality assurance and quality control purposes, a blank was simultaneously analyzed by the laboratory for assessing potential external contamination of groundwater samples. Analysis of groundwater from MW-8 showed the presence of MIBK at 150 ppm. Groundwater from MW-1 showed the presence of benzene at 0.007 ppm, toluene at 0.008 ppm, and total xylenes at 0.003 ppm. No other compounds analyzed were detected above method detection limits. No chemicals were detected in the blank sample. Analytical results are presented in Appendix B, are summarized in Table 2 and shown on Plate 3.

CONCLUSIONS AND RECOMMENDATIONS

The soil vapor extraction system appears to have been effective in reducing concentrations of MIBK in the unsaturated soils in the vicinity of the former underground tanks. Since no contaminants were detected in soil samples collected from the former underground tank area in September, PES requests that the Alameda County Department of Environmental Health approve of no further action with respect to soil characterization or remediation in the former UST area. Furthermore, PES recommends formally abandoning the soil vapor extraction system, extraction wells, and passive recharge wells.

Groundwater in the area of the former underground tanks still contains detectable amounts of MIBK. No MIBK has ever been detected in any well other than MW-8. Traces of benzene, toluene and xylenes were detected in well MW-1 for the first time. Benzene has been detected previously in MW-8, but not in MW-1, and no toluene or xylenes have been detected in the vicinity of the former underground storage tanks. Due to the apparent lack of migration of the MIBK and sporadic low concentrations of benzene, toluene and xylenes, PES recommends that three additional quarters of groundwater monitoring data be collected to establish a reliable data base for future remedial planning, if any is required.

PES is pleased to have the opportunity to provide these services. If you have any questions regarding this report or proposal, please contact either of the undersigned.

Very truly yours,

PES ENVIRONMENTAL, INC.

Andrew A. Briefer, P.E.
Senior Engineer

William F Fryzell for

James D. Wilson
Principal Hydrogeologist

cc: James McClay (MRCP Realty)
Catherine Johnson (Landels, Ripley & Diamond)

Attachments:

Table 1	Summary of Analytical Results from Soil Samples, Nady Systems Site, Emeryville, California.
Table 2	Summary of Analytical Results from Groundwater Samples, Nady Systems Site, Emeryville, California
Plate 1	Well and Soil Boring Location Map, Nady Systems Site, 6707 Bay Street, Emeryville, California
Plate 2	Water Level Elevation Map, September 5, 1991, Nady Systems Site, 6707 Bay Street, Emeryville, California
Plate 3	Concentrations of Dissolved VOCs, September 5, 1991, Nady Systems Site, 6707 Bay Street, Emeryville, California
Plate 4	Schematic Diagram of Soil Vapor Extraction and Treatment System, Nady Systems Site, Emeryville, California

Plate 5	Schematic Diagram of Groundwater Extraction and Treatment System, Nady Systems Site, Emeryville, California
Appendix A	Lithologic Logs of Soil Borings PB-1 and PB-2
Appendix B	Soil and Groundwater Analytical Results
Appendix C	Groundwater Sampling Report and Chain of Custody Records

Table 1. Summary of Analytical Results from Soil Samples
Nady Systems, Inc. Site
Emeryville, California

Concentrations expressed in milligrams per kilogram or parts per million (ppm)

Soil Boring	Depth (ft bgs.)	Sampled By	Sample Date	TPH as Gasoline	TPH as Diesel	Oil and Grease	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	4-Methyl-2-Pentanone	Vinyl Chloride	Trans 1,2-Dichloroethylene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Zinc	Lead	Copper
B-1		L&W Environmental	Jul-89															
	5.5			<10 (2)	12	845	NR	NR	NR	NR	NR	<0.030	<0.030	NR	NR	94	61	28
	10.5			<10	<10	<50	NR	NR	NR	NR	NR	<0.030	<0.030	NR	NR	5.4	3	4
	16.0			<10	63	1600	NR	NR	NR	NR	NR	<0.030	<0.030	NR	NR	8040	160	153
	20.5			<10	<10	80	NR	NR	NR	NR	NR	<0.030	<0.030	NR	NR	106	77	23
	25.5			<10	<10	95	NR	NR	NR	NR	NR	<0.030	<0.030	NR	NR	27	8	13
	30.5			<10	<10	<50	NR	NR	NR	NR	NR	<0.030	<0.030	NR	NR	15	4.5	7.4
B-3		L&W Environmental	Aug-89															
	5.0			<10	30	1845	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	12.0			<10	20	95	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	15.0			120	260	625	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	20.0			<10	<10	<20	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	25.0			<10	<10	20	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW-8		SCS Engineers	Jan-90															
	5.0			<10	<10	2000	<0.010	<0.010	<0.010	<0.010	<0.030	<0.030	<0.010	<0.010	NR	75	<12	18
	10.0			<10	<10	20000	<0.100	<0.100	<0.100	<0.100	8.3	<0.030	<0.010	<0.100	NR	120	24	41
PB-1 (1)		PES Environmental	Sep-90															
	6.0			NA	NA	NA	<0.005 (2)	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	0.002	NA	NA	NA
	8.5			NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	0.003	0.004	NA	NA	NA
PB-2 (1)		PES Environmental	Sep-90															
	5.5			NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	NA	NA	NA
	8.0			NA	NA	NA	0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	0.004	0.004	NA	NA	NA

Notes:

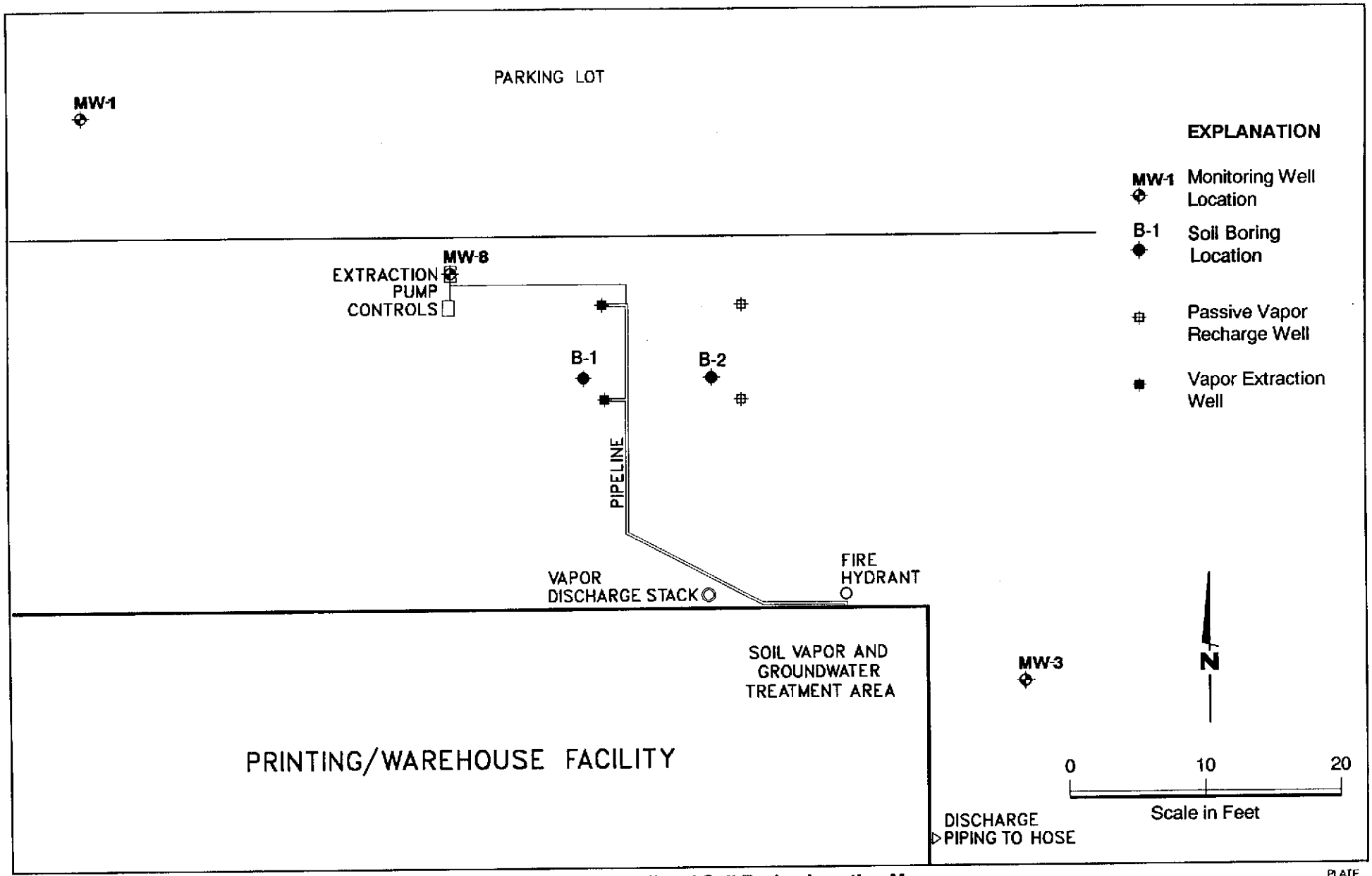
(1) Prefix "P" added to distinguish current soil boring data from earlier information.
(2) <10 = Compound not detected at indicated detection limit.
NR = Not reported.
<= Compound not detected at indicated detection limit.

Table 2. Summary of Analytical Results from Groundwater Samples
Nady Systems, Inc. Site, Emeryville, California

Concentrations expressed in milligrams per kilogram or parts per million (ppm)

WELL NUMBER	MW-1	MW-1	MW-1	MW-1	MW-3	MW-3	MW-3	MW-8	MW-8	MW-8
SAMPLING DATE	Jul-89	Sep-89	Jan-90	Sep-91	Sep-89	Jan-90	Sep-91	Jan-90	Dec-90	Sep-91
VOLATILE ORGANICS										
4-Methyl-2-Pentanone	NR	<0.020	<0.020	<0.010	<0.020	<0.020	<0.010	160	47	150
Vinyl Chloride	<0.0003	<0.04	<0.03	<0.010	<0.004	<0.03	<0.010	NR	<0.150	<10
Trans-1,2-Dichloroethene	<0.0003	<0.003	<0.003	<0.005	<0.003	<0.005	<0.005	NR	<0.025	<5
Acetone	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	NR	3.2	<20
2-Butanone	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	NR	10	<20
4-Methyl-2-Pentanone	<0.020	NR	<0.020	<0.010	NR	<0.020	<0.010	NR	130	150
Benzene	<0.002	<0.002	<0.003	0.007	<0.002	<0.005	<0.005	2.1	0.16	<5
Toluene	<0.002	<0.002	<0.003	0.008	<0.002	<0.005	<0.005	<0.025	<0.025	<5
Ethylbenzene	<0.003	<0.003	<0.003	<0.005	<0.003	<0.005	<0.005	<0.025	<0.025	<5
Xylene	<0.003	<0.003	<0.003	0.003	<0.003	<0.005	<0.005	<0.025	<0.025	<5
PETROLEUM HYDROCARBONS										
Total Petroleum Hydrocarbons	NR	<0.5	0.5		<0.5	0.6		103	106	NA
Oil and Grease	NR	<10	<10		<10	NR		NA	NA	NA
METALS										
Zinc	0.18	NA	0.18		NA	NA		NA	NA	NA
Lead	0.063	NA	0.063		NA	NA		NA	NA	NA
Copper	0.04	NA	0.04		NA	NA		NA	NA	NA

Notes:
NA = Not Analyzed
NR = Not Reported
<10= not detected at reported detection limit

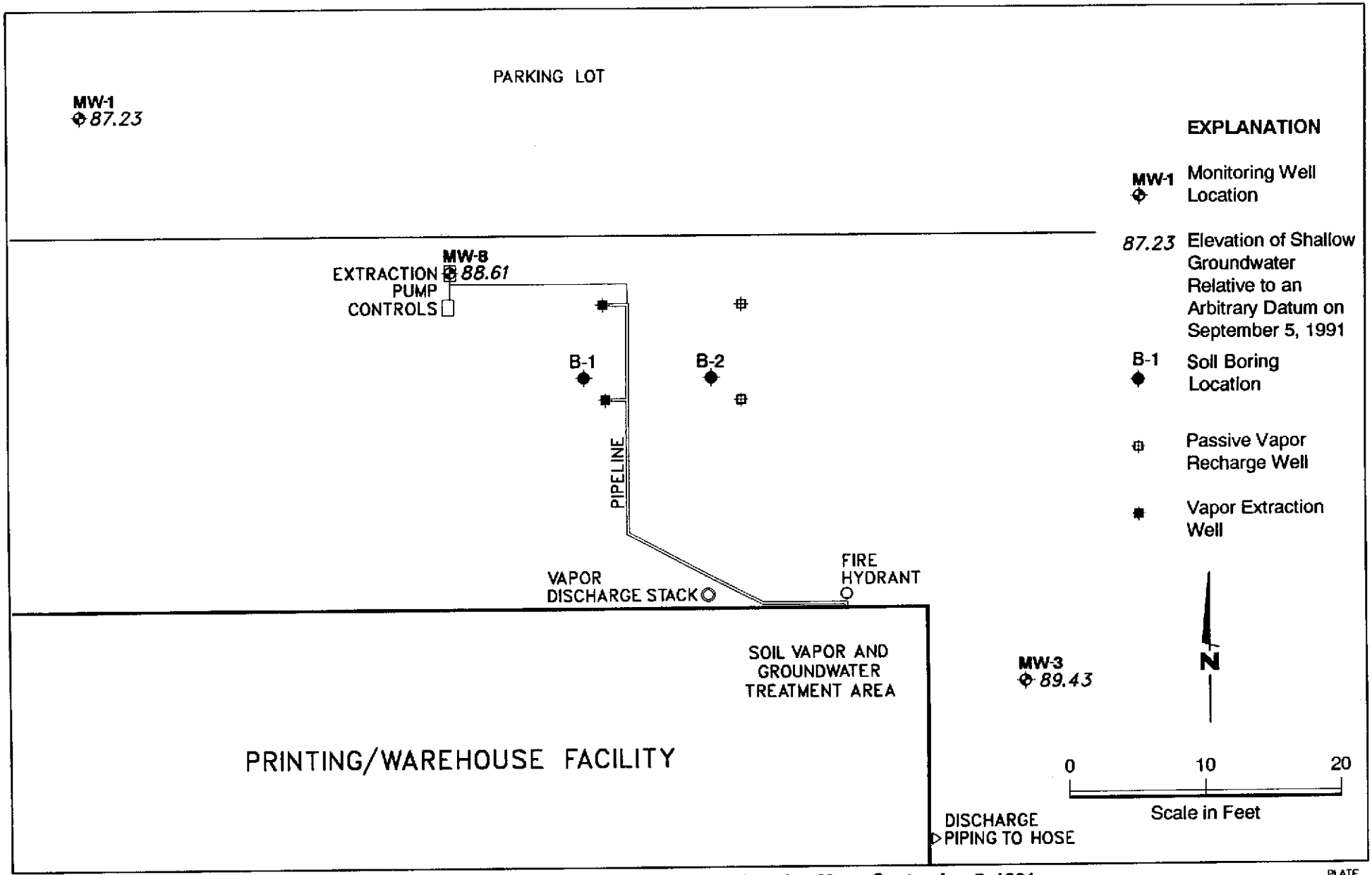


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Engineering & Environmental Services

Well and Soil Boring Location Map
Nady Systems Site
6707 Bay Street
Emeryville, California

PLATE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
MP001B		11/91		

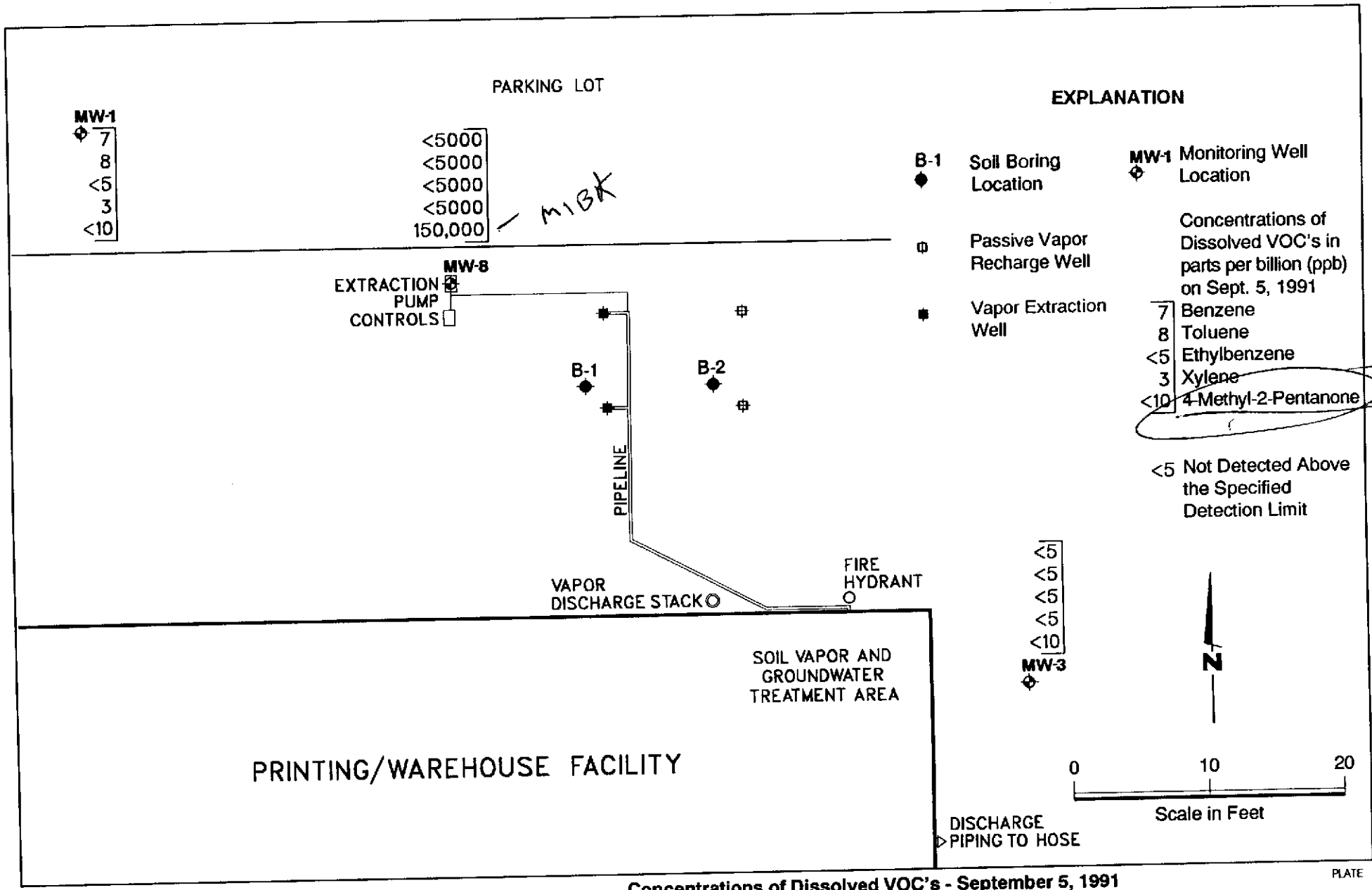


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Water Level Elevation Map - September 5, 1991
Nady Systems Site
6707 Bay Street
Emeryville, California

PLATE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
MP001B		11/91		

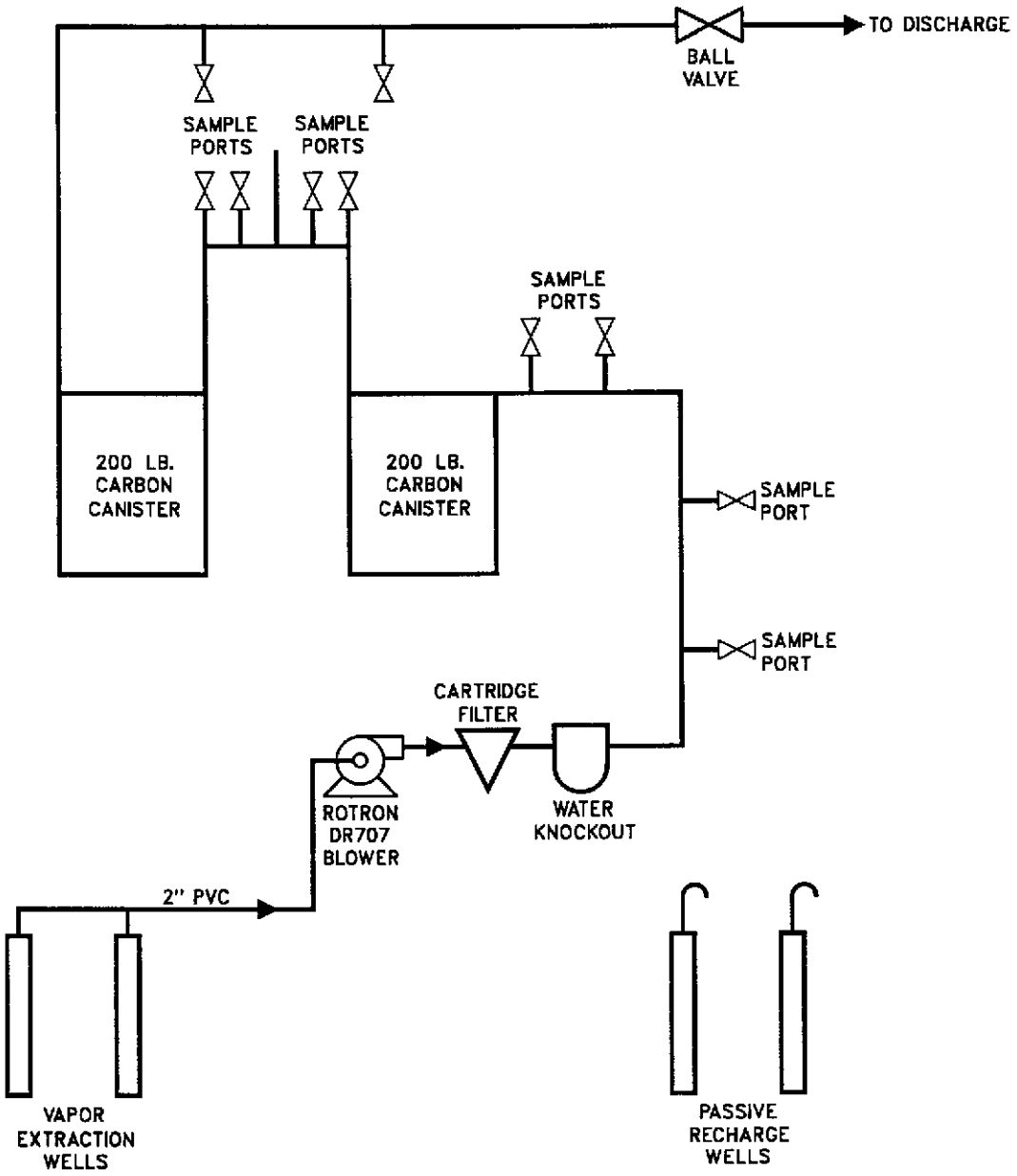


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Concentrations of Dissolved VOC's - September 5, 1991
Nady Systems Site
6707 Bay Street
Emeryville, California

PLATE
3

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
MP001B		11/91		



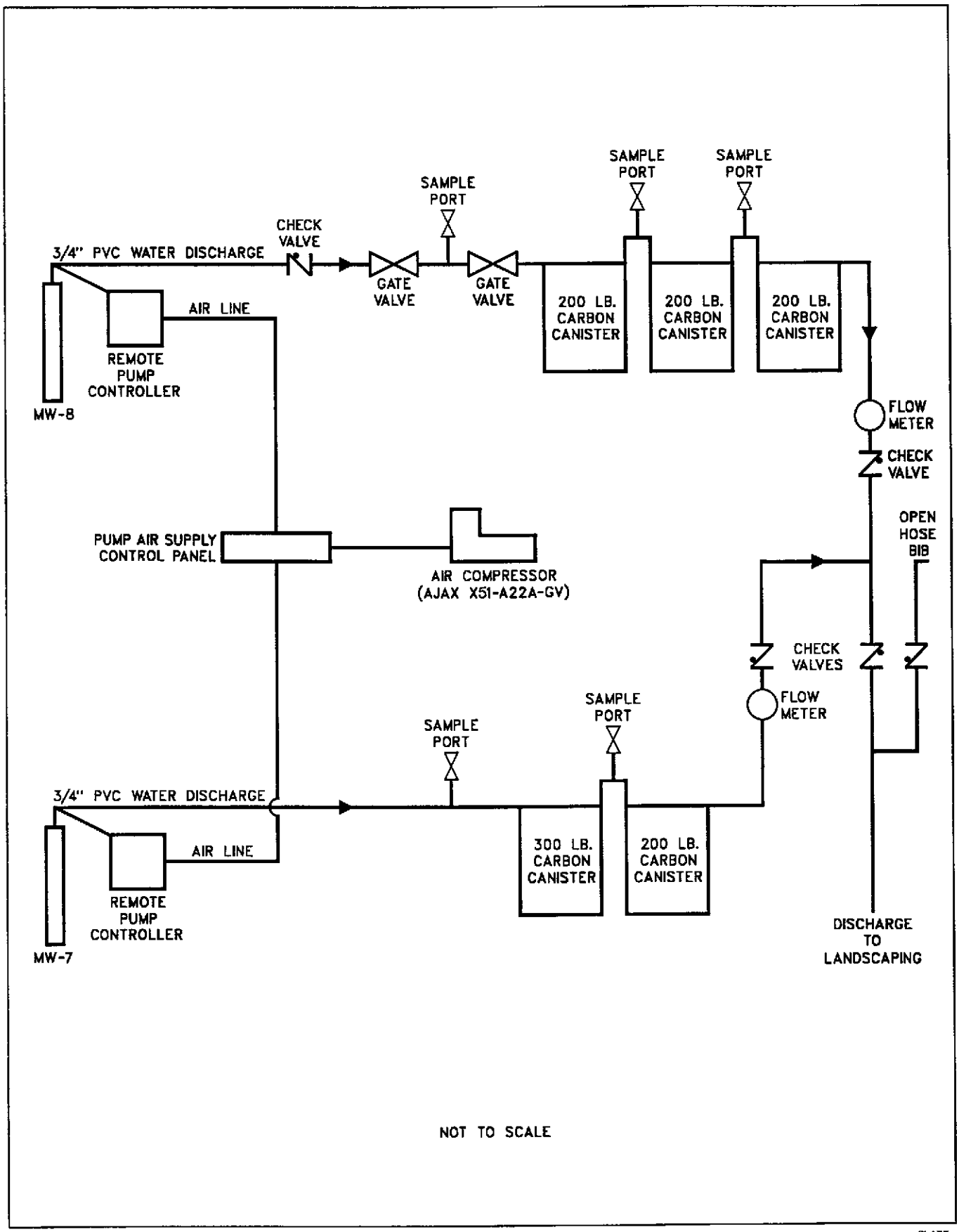
NOT TO SCALE

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Schematic Diagram of Soil Vapor Extraction and Treatment System
Nady Systems Site
Emeryville, California

PLATE
4

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Schematic Diagram of Groundwater Extraction and Treatment System
Nady Systems Site
Emeryville, California

PLATE
5

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
MP001B		12/91		

APPENDIX A

Lithologic Logs of Soil Borings PB-1 and PB-2

MAJOR DIVISIONS					TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
			GP		POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH OVER 15% FINES	GM		SILTY GRAVELS, SILTY GRAVELS WITH SAND
			GC		CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
	SANDS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
			SP		POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH OVER 15% FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
			SC		CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS
			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS
			OL		ORGANIC SILTS OR CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH		INORGANIC SILTS, MICACEOUS OR DIATOMACIOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH		ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT		PEAT AND OTHER HIGHLY ORGANIC SOILS

Perm	- Permeability
Consol	- Consolidation
LL	- Liquid Limit (%)
PI	- Plastic Index (%)
G_s	- Specific Gravity
MA	- Particle Size Analysis
2.5 YR 6/2	- Soil Color according to Munsell Soil Color Charts (1975 Edition)
5 GY 5/2	- GSA Rock Color Chart

☐	- No Soil Sample Recovered
⊘	- Disturbed Soil Sample Recovered
■	- Sample Submitted for Laboratory Analysis
⊠	- Undisturbed Bulk or Classification Sample
▽	- First Encountered Ground Water Level
▼	- Piezometric Ground Water Level
Penetration	- Sample drive hammer weight - 140 pounds falling 30 inches. Blows required to drive sampler 6 inches are indicated on the logs

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Unified Soil Classification Chart
Nady Systems Site
Emeryville, California

PLATE
A-1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
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LOG OF BORING P.B-1

PID (PPM)	BLOWS/6"	DEPTH (FT)	SYMBOLS	MATERIALS DESCRIPTION
				BROWN POORLY GRADED SAND WITH CLAY (SP) loose, moist. (fill)
0	3 2 2			
0	2 1 3	5		VERY DARK BROWN SANDY SILT (ML) 10YR 2/2, loose, moist to saturated, 30-35% very fine-grained to fine-grained sand, trace medium-grained sand, trace fine gravel, Saturated: plastic and cardboard debris at 8.5 feet, no samples retained.
	2 3 3			
2.4	8 3 5	10		BLACK ELASTIC CLAY WITH SAND (CH) 2.5Y 2/0, medium stiff, moist, 10-15% very fine-grained to fine-grained sand, green mottling, wood debris.
0	2 4 6			BLACK POORLY GRADED SAND WITH SILT (SP) 2.5Y 2/0, loose, saturated, fine-grained to medium-grained sand.
10.4	3 4 4	15		*Bottom of Borehole at 16.5 feet.*
		20		
		25		
		30		

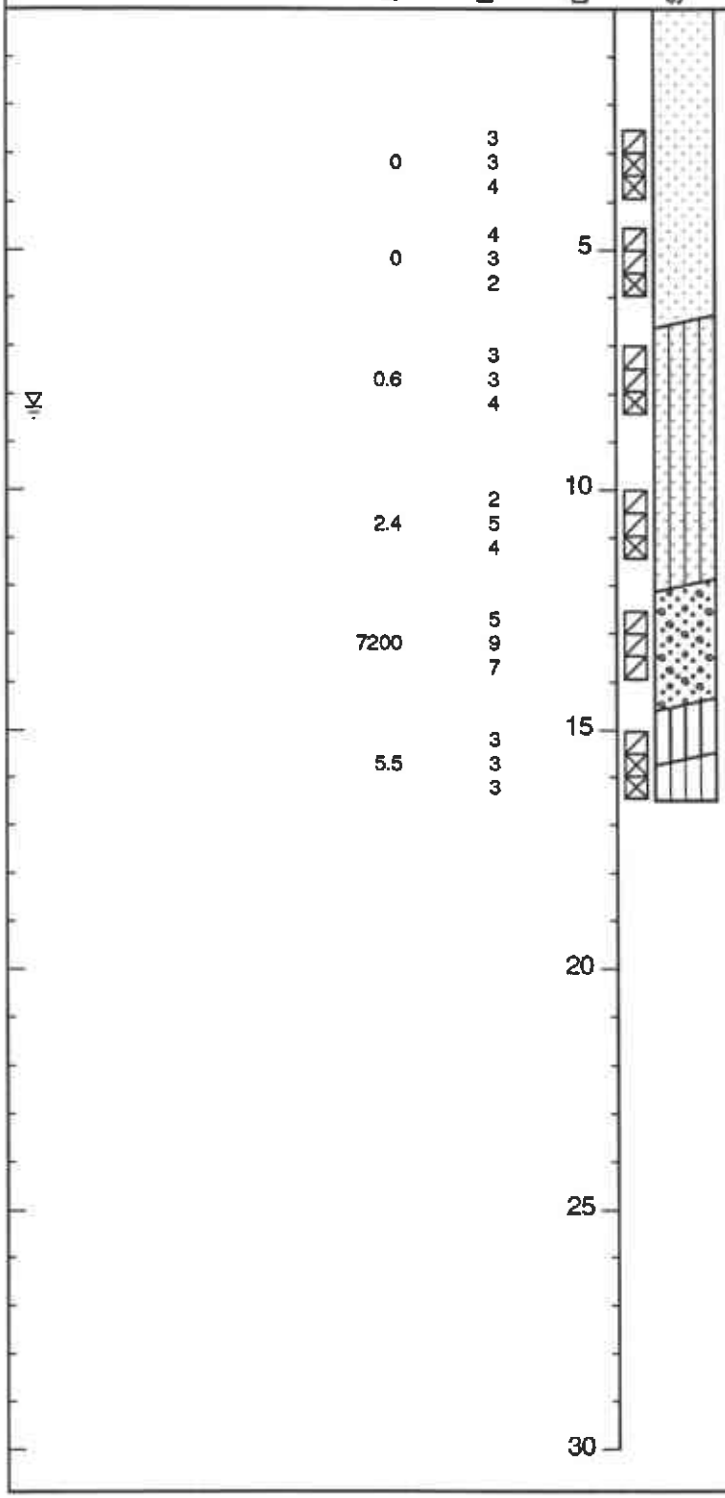
CLIENT	Nady Systems Site	DIAMETER OF HOLE	8 inches
LOCATION	6707 Bay Street, Emeryville, CA	TOTAL DEPTH OF HOLE	16.5 feet
JOB NUMBER	MP001B	TOP OF CASING ELEVATION	
GEOLOGIST/ENGINEER	J. Gill	DATE STARTED	9/5/91
DRILL RIG	Truck Mounted C-57	DATE COMPLETED	9/5/91

PLATE

A-2

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING PB-2



MATERIALS DESCRIPTION

BROWN POORLY GRADED SAND WITH CLAY AND GRAVEL (SP) - loose, moist. (fill)

Cobbles or concrete debris at 7 feet.
VERY DARK GRAY TO BLACK SILTY SAND (SM) loose, saturated, fine-grained to coarse-grained sand, wood debris and concrete debris.

Driller noted cobbles at 11 feet.

BLACK SANDY GRAVEL WITH SILT (GW) 5Y 2.5/1, very loose, saturated.

DARK GREENISH GRAY SANDY ELASTIC SILT (MH) 5BG 4/1, soft, moist to saturated, 15-20% very fine-grained sand.
BLACK SILT WITH SAND (ML) 7.5YR 2/0, soft, moist, wood debris.

Bottom of Borehole at 16.5 feet.

CLIENT	Nady Systems Site	DIAMETER OF HOLE	8 inches
LOCATION	6707 Bay Street, Emeryville, CA	TOTAL DEPTH OF HOLE	16.5 feet
JOB NUMBER	MP001B	TOP OF CASING ELEVATION	
GEOLOGIST/ENGINEER	J. Gill	DATE STARTED	9/5/91
DRILL RIG	Truck Mounted C-57	DATE COMPLETED	9/5/91

PLATE
A-3

APPENDIX B

Soil and Groundwater Analytical Results

ANAMETRIX INC
Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

REPORT

MR. ANDREW BRIEFER
PES ENVIRONMENTAL
P.O. BOX 1833
NOVATO, CA 94948

Workorder # : 9109033
Date Received : 09/05/91
Project ID : MPO01B
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9109033- 1	B-1-3.5
9109033- 2	B-1-6.0
9109033- 3	B-1-8.5
9109033- 4	B-1-10.5
9109033- 5	B-1-11.0
9109033- 6	B-1-13.0
9109033- 7	B-2-3.5
9109033- 8	B-2-5.5
9109033- 9	B-2-8.0
9109033-10	B-2-11.0
9109033-11	B-2-16.0

This report consists of 9 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.
Laboratory Manager

9-23-91
Date

ANAMETRIX REPORT DESCRIPTION
GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anametrix uses several data qualifiers (Q) in it's report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ANDREW BRIEFER
PES ENVIRONMENTAL
P.O. BOX 1833
NOVATO, CA 94948

Workorder # : 9109033
Date Received : 09/05/91
Project ID : MP001B
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9109033- 2	B-1-6.0	SOIL	09/05/91	8240
9109033- 3	B-1-8.5	SOIL	09/05/91	8240
9109033- 8	B-2-5.5	SOIL	09/05/91	8240
9109033- 9	B-2-8.0	SOIL	09/05/91	8240

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ANDREW BRIEFER
PES ENVIRONMENTAL
P.O. BOX 1833
NOVATO, CA 94948

Workorder # : 9109033
Date Received : 09/05/91
Project ID : MPO01B
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- No QA/QC problems encountered.

Paul Gowan 9-23-91
Department Supervisor Date

Le-Le Yu 9-23-91
Chemist Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MP001B
Sample ID : B-1-6.0
Matrix : SOIL
Date Sampled : 9/ 5/91
Date Analyzed : 9/19/91
Instrument ID : MSD2

Anametrix ID : 9109033-02
Analyst : LH
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	2.	J
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MP001B
Sample ID : B-1-8.5
Matrix : SOIL
Date Sampled : 9/ 5/91
Date Analyzed : 9/19/91
Instrument ID : MSD2

Anametrix ID : 9109033-03
Analyst : LJ
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	3.	J
106-46-7	1,4-Dichlorobenzene	5.	4.	J
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MP001B
Sample ID : B-2-5.5
Matrix : SOIL
Date Sampled : 9/ 5/91
Date Analyzed : 9/19/91
Instrument ID : MSD2

Anametrix ID : 9109033-08
Analyst : [illegible]
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MP001B
Sample ID : B-2-8.0
Matrix : SOIL
Date Sampled : 9/ 5/91
Date Analyzed : 9/19/91
Instrument ID : MSD2

Anametrix ID : 9109033-09
Analyst : LJ
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	5.	J
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	4.	J
106-46-7	1,4-Dichlorobenzene	5.	4.	J
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : BLANK
Matrix : SOIL
Date Sampled : 0/ 0/ 0
Date Analyzed : 9/19/91
Instrument ID : MSD2

Anametrix ID : 0918B004
Analyst : [illegible]
Supervisor : PG

Dilution Factor : 1.00
Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MPOO1B
Matrix : SOLID

Anametrix ID : 9109033
Analyst : LY
Supervisor : PG

	SAMPLE ID	SU1	SU2	SU3	TOTAL OUT
1	BLANK	126	101	110	0
2	B-1-8.5	99	96	94	0
3	B-2-5.5	92	92	83	0
4	B-2-8.0	95	99	92	0
5	B-1-6.0	93	99	88	0
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	QC LIMITS
SU1 = 1,2-Dichloroethane-d4	(73-130)
SU2 = Toluene-d8	(74-121)
SU3 = 1,4-Bromofluorobenzene	(70-124)

* Values outside of Anametrix QC limits

Update
Faxed copy
9-9-91

BLAINE
TECH SERVICES INC.

1576 TULLY ROAD., SUITE 505
SAN JOSE, CA 95122
(408) 995 5535

CHAIN OF CUSTODY: PES ENVIRONMENTAL
CLIENT: [redacted] MRCP REALTY
SITE: 6707 BAY ST
EMERYVILLE CA

CONDUCT ANALYSIS AS DETECTED

LAB: [redacted]

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION L
SET BY CALIFORNIA DHS AND

- ☐ EPA
- ☐ LIA
- ☐ OTHER
- ☐ RWQCB REGION

SPECIAL INSTRUCTIONS
ACCTNG [illegible]
[illegible]
[illegible]

	SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	8240 w/EXTENDED TARGET CL ANALYTES	MIBK	ARCHIVE UNTIL NOTIFIED	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE
1	B-1-3.5	S	1	[illegible]								
2	B-1-6.0	S	1			X						
3	B-1-8.5	S	1			X						
4	B-1-10.5	S	1									
5	B-1-11.0	S	1									
6	B-1-13.0	S	1									
7	B-2-3.5	S	1									
8	B-2-5.5	S	1			X						
9	B-2-8.0	S	1			X						
10	B-2-11.0	S	1									
11	B-2-14.0	S	1	!								

SAMPLING COMPLETED	DATE 9/5/91	TIME	SAMPLING PERFORMED BY	JANE GILL	
RELEASED BY [illegible] GILL	DATE 9/5/91	TIME 2:35 p.m.	RECEIVED BY		DATE / TIME
RELEASED BY	DATE	TIME	RECEIVED BY		DATE / TIME
RELEASED BY	DATE	TIME	RECEIVED BY		DATE / TIME
SHIPPED VIA: BLAINE TECH	DATE SENT 9/5/91	TIME SENT	COOLER #		

RESULTS NEEDED NO LATER THAN

TOTAL P.02

BLAINE TECH SERVICES INC.

[redacted] 370 [redacted]Y RO[redacted] SUIT[redacted]
SAN JOSE, CA 95122
(408) 995 5535

Bill PES/Send Reports

CHAIN OF CUSTODY: PES ENVIRONMENTAL

CLIENT: [redacted] MRCP REALTY

SITE: 6707 BAY ST
EMERYVILLE CA

ATTN Jane Gill PES

CONDUCT ANALYSIS TO DETECT

LAB: ANALYTEK [redacted] DHS # [redacted]

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS: JS JT
ARCHIVE UNTIL NOTIFIED FOR 8240 W/EXTENDED SCAN AND STANDARD TCLP ANALYSIS FOR MTBE

	SAMPLE I.D.	MATRIX S=SOIL W=H2O	CONTAINERS TOTAL		C=COMPOSITE ALL CONTAINERS	8240 W/EXTENDED SCAN	ARCHIVE UNTIL NOTIFIED	TARGET FOR MTBE	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	B-1-3.5	S	1	SS TUBE		X			No headspace			
2	B-1-6.0	S	1			X			Headspace			
3	B-1-8.5	S	1			X			Headspace			
4	B-1-10.5	S	1			X			No headspace			
5	B-1-11.0	S	1			X			Headspace			
6	B-1-13.0	S	1			X			No headspace			
7	B-2-3.5	S	1			X			Headspace			
8	B-2-5.5	S	1			X			↓			
9	B-2-8.0	S	1			X			No headspace			
10	B-2-11.0	S	1			X			Headspace			
11	B-2-16.0	S	1			X			no headspace			

SAMPLING COMPLETED: DATE 9/5/91 TIME
SAMPLING PERFORMED BY: JANE GILL

RESULTS NEEDED NO LATER THAN

all samples col!

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Jane Gill	9/5/91	2:35 pm	[signature]	9/5/91	16:35
[signature]	9/5/91	16:10	[signature]	091091	1610
[signature]	[illegible]				

SHIPPED VIA: BLAINE TECH
DATE SENT: 9/5/91
TIME SENT:
COOLER #:

JDW

ANAMETRIX INC
Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

REPORT

MS. JANE GILL
PES ENVIRONMENTAL
P.O. BOX 1833
NOVATO, CA 94948

Workorder # : 9109032
Date Received : 09/05/91
Project ID : MP001B
Purchase Order: N/A

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9109032- 1	MW1
9109032- 2	MW3
9109032- 3	MW8

This report consists of 10 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.
Laboratory Manager

9-19-91
Date

ANAMETRIX REPORT DESCRIPTION
GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anametrix uses several data qualifiers (Q) in it's report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JANE GILL
PES ENVIRONMENTAL
P.O. BOX 1833
NOVATO, CA 94948

Workorder # : 9109032
Date Received : 09/05/91
Project ID : MP001B
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9109032- 1	MW1	WATER	09/05/91	8240
9109032- 2	MW3	WATER	09/05/91	8240
9109032- 3	MW8	WATER	09/05/91	8240

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MS. JANE GILL
PES ENVIRONMENTAL
P.O. BOX 1833
NOVATO, CA 94948

Workorder # : 9109032
Date Received : 09/05/91
Project ID : MP001B
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- Tentatively Identified Compounds (TICs) were scanned for but were not detected in the EPA Method 8240 analysis of these samples.

Department Supervisor 9-19-91 Date

Chemist 9-19-91 Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MP001B
Sample ID : MW1
Matrix : WATER
Date Sampled : 9/ 5/91
Date Analyzed : 9/18/91
Instrument ID : MSD2

Anametrix ID : 9109032-01
Analyst : LI
Supervisor : UM

Dilution Factor : 1.00
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	7.	
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	8.	
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	3.	J
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MP001B
Sample ID : MW3
Matrix : WATER
Date Sampled : 9/ 5/91
Date Analyzed : 9/19/91
Instrument ID : MSD2

Anametrix ID : 9109032-02
Analyst : LY
Supervisor : LY

Dilution Factor : 1.00
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID	: MP001B	Anametrix ID	: 9109032-03
Sample ID	: MW8	Analyst	: MCT
Matrix	: WATER	Supervisor	: MH
Date Sampled	: 9/ 5/91		
Date Analyzed	: 9/19/91	Dilution Factor	: 1000.00
Instrument ID	: MSD1	Conc. Units	: ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10000.	ND	U
75-01-4	Vinyl chloride	10000.	ND	U
74-83-9	Bromomethane	10000.	ND	U
75-00-3	Chloroethane	10000.	ND	U
75-69-4	Trichlorofluoromethane	5000.	ND	U
75-35-4	1,1-Dichloroethene	5000.	ND	U
76-13-1	Trichlorotrifluoroethane	5000.	ND	U
67-64-1	Acetone	20000.	ND	U
75-15-0	Carbon disulfide	5000.	ND	U
75-09-2	Methylene chloride	5000.	ND	U
156-60-5	Trans-1,2-dichloroethene	5000.	ND	U
75-34-3	1,1-Dichloroethane	5000.	ND	U
156-59-2	Cis-1,2-dichloroethene	5000.	ND	U
78-93-3	2-Butanone	20000.	ND	U
67-66-3	Chloroform	5000.	ND	U
71-55-6	1,1,1-Trichloroethane	5000.	ND	U
56-23-5	Carbon tetrachloride	5000.	ND	U
108-05-4	Vinyl acetate	10000.	ND	U
71-43-2	Benzene	5000.	ND	U
107-06-2	1,2-Dichloroethane	5000.	ND	U
79-01-6	Trichloroethene	5000.	ND	U
78-87-5	1,2-Dichloropropane	5000.	ND	U
75-27-4	Bromodichloromethane	5000.	ND	U
110-75-8	2-Chloroethylvinyl ether	5000.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5000.	ND	U
108-10-1	4-Methyl-2-pentanone	10000.	150000.	
108-88-3	Toluene	5000.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5000.	ND	U
79-00-5	1,1,2-Trichloroethane	5000.	ND	U
127-18-4	Tetrachloroethene	5000.	ND	U
591-78-6	2-Hexanone	10000.	ND	U
124-48-1	Dibromochloromethane	5000.	ND	U
108-90-7	Chlorobenzene	5000.	ND	U
100-41-4	Ethylbenzene	5000.	ND	U
1330-20-7	Xylene (Total)	5000.	ND	U
100-42-5	Styrene	5000.	ND	U
75-25-2	Bromoform	5000.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5000.	ND	U
541-73-1	1,3-Dichlorobenzene	5000.	ND	U
106-46-7	1,4-Dichlorobenzene	5000.	ND	U
95-50-1	1,2-Dichlorobenzene	5000.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : BLANK
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Analyzed : 9/18/91
Instrument ID : MSD2

Anametrix ID : 0918B003
Analyst :
Supervisor :

Dilution Factor : 1.00
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : BLANK
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Analyzed : 9/19/91
Instrument ID : MSD1

Anametrix ID : 0919B001
Analyst : MCT
Supervisor : [illegible]

Dilution Factor : 1.00
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
110-75-8	2-Chloroethylvinyl ether	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MP001B
Matrix : LIQUID

Anametrix ID : 9109032
Analyst : LT
Supervisor : WM

	SAMPLE ID	SU1	SU2	SU3	TOTAL OUT
1	BLANK	101	99	103	0
2	MW1	106	101	106	0
3	MW3	110	101	107	0
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	QC LIMITS
SU1 = 1,2-Dichloroethane-d4	(75-113)
SU2 = Toluene-d8	(83-110)
SU3 = 1,4-Bromofluorobenzene	(82-114)

* Values outside of Anametrix QC limits

SURROGATE RECOVERY SUMMARY -- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project ID : MP001B
Matrix : LIQUID

Anametrix ID : 9109032
Analyst : MC
Supervisor : UM

	SAMPLE ID	SU1	SU2	SU3	TOTAL OUT
1	BLANK	99	100	113	0
2	MW8	104	98	106	0
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
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26					
27					
28					
29					
30					

	QC LIMITS
SU1 = 1,2-Dichloroethane-d4	(75-113)
SU2 = Toluene-d8	(83-110)
SU3 = 1,4-Bromofluorobenzene	(82-114)

* Values outside of Anametrix QC limits

BLAINE TECH SERVICES INC.

1370 TULLY ROAD., SUITE 505
SAN JOSE, CA 95122
(408) 995 5535

PES

IS TT 9109032

LAB ANAMETRIX '1620 DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☒ RWQCB REGION 11

CHAIN OF CUSTODY 9109054

CLIENT PES / MIKE KEARTY

SITE 6767 BAY ST.
EMERYVILLE

Attn: Jane Gill

SPECIAL INSTRUCTIONS ~~RELEASE ONLY~~ PES Project # MP001B

ROUTINE
ALL VOAs HCl Pres.

SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: 8240 EXTENDED Scan	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW 1	W	3	VOAs		X				
MW 3	W	3	"		X				
MW 8	W	3	"		X				
						40 samples cold, w bubbles.			

SAMPLING COMPLETED DATE 9591 TIME 14:25

SAMPLING PERFORMED BY Jeff Curtis

RESULTS NEEDED NO LATER THAN ROUTINE

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Jeff Curtis	9591	16:10		09/5/91	1610

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

APPENDIX C

Groundwater Sampling Report and Chain of Custody Records

BLAINE
TECH SERVICES INC.

1370 TULLY RD., SUITE 505
SAN JOSE, CA 95122
(408) 995-5535

September 25, 1991

PES Environmental, Inc.
P.O. Box 1833
Novato, CA 94947

Attn: Jane Gill

SITE:
MRCP Realty
6707 Bay Street
Emeryville, California

SAMPLING EVENT:
Evacuate and sample three wells

DATE:
September 9, 1991

GROUNDWATER SAMPLING REPORT 910905-A-1

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site is presented in the TABLE OF WELL MONITORING DATA. This data was collected during our inspection, well evacuation, and sample collection. Measurements include the total depth of the well and depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, and temperature readings were obtained during well evacuation and at the time of sample collection. Recharge performance can be evaluated by comparing the anticipated three, four, or five case volume evacuation gallonage with the volume which could actually be purged.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-1			MW-3			MW-8		
Date Sampled	09/05/91			09/05/91			09/05/91		
Well Diameter (in.)	4			2			4		
Total Well Depth (ft.)	29.76			24.17			19.0		
Depth To Water (ft.)	11.41			8.69			10.14		
Free Product (in.)	NONE			NONE			NONE		
Reason If Not Sampled	--			--			--		
1 Case Volume (gal.)	11.92			2.52			5.76		
Did Well Dewater?	NO			NO			NO		
Gallons Actually Evacuated	48			10.25			24		
Purging Device	MIDDLEBURG			MIDDLEBURG			BAILER		
Sampling Device	MIDDLEBURG			MIDDLEBURG			BAILER		
Time	12:56	13:30	14:20	12:10	12:16	12:23	10:20	10:46	11:05
Temperature (Fahrenheit)	65.1	64.4	64.3	66.8	65.2	65.4	65.1	65.2	65.7
pH	7.1	7.1	7.3	7.9	7.6	7.6	8.1	7.4	7.4
Conductivity (micromhos/cm)	10,800	11,600	12,000	1600	1800	1900	3000	2700	3100
Nephelometric Turbidity Units	8.4	>200	68	139	42	21	>200	>200	>200
BTS Chain of Custody	910905-A-1			910905-A-1			910905-A-1		
BTS Sample I.D.	MW-1			MW-3			MW-8		
DHS HMTL Laboratory	ANAMETRIX			ANAMETRIX			ANAMETRIX		
Analysis	EPA 8240 (EXTENDED SCAN)			EPA 8240 (EXTENDED SCAN)			EPA 8240 (EXTENDED SCAN)		

EQUIPMENT

Selection of Sampling Equipment

The determination of what apparatus is to be used on particular wells may be made by the property owner or the professional consultant directing the performance of the monitoring on the property owner's behalf. If no specific requirement is made known to us, our personnel will select equipment that will accomplish the work in the most efficient manner. Our personnel are equipped with a variety of sampling devices that include USGS/Middleburg pumps, down hole electric submersible pumps, air lift pumps, suction pumps, and bailers made of both Teflon and stainless steel.

Evacuation and Sampling Equipment Mechanics

When equipment is not selected by the client, the apparatus for well evacuation and sample collection is selected by our field personnel based on an evaluation of the field conditions. Four types of devices are commonly available for employment:

Bailers
High Volume Suction Pumps
Electric Submersible Pumps
USGS/Middleburg positive displacement sampling pumps

USGS/Middleburg pumps and Bailers were selected for the collection of samples at this site.

USGS/Middleburg Positive Displacement Sampling Pumps: USGS/Middleburg positive displacement sampling pumps are EPA approved pumps appropriate for use in wells down to two inches in diameter and depths up to several hundred feet. The pump contains a flexible Teflon bladder which is alternately allowed to fill with well water and then collapsed. Actuation of the pump is accomplished with compressed air supplied by a single hose to one side of the Teflon membrane. Water on the other side of the membrane is squeezed out of the pump and up a Teflon conductor pipe to the surface. Evacuation and sampling are accomplished as a continuum. The rate of water removal is relatively slow and loss of volatiles almost non-existent. There is only positive pressure on the water being sampled and there is no impeller cavitation or suction. The pumps can be placed at any location within the well, can draw water from the very bottom of the well case, and are virtually immune to the erosive effects of silt or lack of water which destroy other types of pumps.

Disadvantages associated with Middleburg pumps include their high cost, low flow rate, temperamental operation, and cleaning requirements which are both elaborate and time consuming.

Bailers: A bailer, in its simplest form, is a hollow tube which has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up out of the well.

Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near surface liquids in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of Teflon or stainless steel and is used as an evacuation and/or sampling device.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also where fuel is involved, the bailer may include near surface contaminants that are not representative of water deeper in the well.

STANDARD PRACTICES

Evacuation

There are few accepted groundwater sampling protocols that do not call for the evacuation of at least three case volumes of water prior to sample collection, and there are situations where up to ten case volumes of evacuation may be requested. Different professional consultants may specify different levels of evacuation prior to sampling or may request that specific parameters be used to determine when to collect the sample. Our personnel use several standard instruments to record the changes in parameters as the well is evacuated. These instruments are used regardless of whether or not a specific volumetric standard has been called for. As a result, the consultant will always be provided with a record of the pH, EC, and temperature changes that occurred during the evacuation process. Additional information obtained with different types of instruments (such as dissolved oxygen and turbidity meters) can also be collected if requested in advance.

Effluent Materials

Groundwater well sampling protocols call for the evacuation of a sufficient volume of water from the well to insure that the sample is collected from water than has been newly drawn into the well from the surrounding geologic formation. The evacuation of this purge water creates a volume of effluent water which must be contained. Blaine Tech Service, Inc. will place this water in appropriate containers of the client's choice or bring new DOT 17 E drums to the site which are appropriate for the containment of the effluent materials. The determination of how to properly dispose of the effluent water must usually

await the results of laboratory analyses of the sample collected from the groundwater well. If that sample does not establish whether or not the effluent water is contaminated, or if effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

Observations and Measurements

Included in the scope of work are routine measurements and investigative procedures which are intended to determine if the wells are suitable for evacuation and sampling. These include measurement (from the top of the well case) of the total depth of the well; the depth to water, and the thickness of any free product zone (FPZ) encountered. The presence of a significant free product zone may interfere with efforts to collect a water sample that accurately reflects the condition of groundwater lying below the FPZ. This interference is caused by adhesion of petroleum to any device being lowered through the FPZ and the likelihood that minute globules of petroleum may break free of the sampling device and be included in the sample. Accordingly, evaluation of analytical results from wells containing any amount of free petroleum should take into account the possibility that positive results have been skewed higher by such an inclusion. The decision to sample or not sample such wells is left to the discretion of our field personnel at the site and the consultant who establishes sampling guidelines based on the need for current information on groundwater conditions at the site.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms with State and Regional Water Quality Control Board standards and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846.

Sample Containers

Sample material is collected in specially prepared containers appropriate to the type of analyses intended. Our firm uses new sample containers of the type specified by either EPA or the RWQCB. Often times analytical laboratories wish to supply the sample containers because checks performed on these bottles are often part of a comprehensive laboratory QC program. In cases where the laboratory does not supply sample containers our personnel collect water samples in containers that are appropriate to the type of analytical procedure that the sample is to receive. For example, 40 ml volatile organic analysis vials (VOAs) are used when analysis for gasoline and similar light volatile compounds is intended. These containers are prepared according to EPA SW 846 and will usually contain a small amount of preservative when the analysis is for TPH as gasoline or EPA 602. Vials intended for EPA 601 analysis and EPA 624 GCMS procedures are not preserved. The closure of volatile organic analysis water sample containers is accomplished with an open headed (syringe accessible) plastic screw cap brought down on top of a Teflon faced septum which is used to seal the sample without headspace.

Water samples intended for semivolatile and nonvolatile analysis such as total oil and grease (TOG) and diesel (TPH HBF) are collected and transported in properly prepared new glass liter bottles. Dark amber glass is used in the manufacture of these bottles to

reduce any adverse effect on the sample by sunlight. Antimicrobial preservative may be added to the sample liquid if a prolonged holding time is expected prior to analysis. Closure is accomplished with a heavy plastic screw cap.

Groundwater well samples intended for metals analysis are transported in new plastic bottles and preserved with nitric acid. Our personnel can field filter the sample liquid prior to placing it in the sample container if instructed to perform this procedure.

Sample Handling Procedures

Water samples are collected in any of several appropriate devices such as bailers, Coliwasas, Middleburg sampling pumps etc. which are described in detail only as warranted by their employment at a given site. Sample liquid is decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA procedures for handling volatile organic and semi-volatile compounds. Only two variations from the EPA methods are generally employed. First, preservative is added to the sample container prior to addition of the sample liquid. We first discovered this method in bottles prepared by Stoner Laboratories in 1982. It was subsequently adopted by many northern California laboratories and environmental consulting firms as a practical means of reducing the time that a liquid is allowed to aerate prior to closure of the sampling container. Second, because tests have shown that the preservative readily mixes with sample liquid, glass stirring rods are not used to agitate the sample/preservative mixture.

Groundwater samples that are to receive metals analyses can be filtered prior to being placed in the plastic sample bottles that contain the nitric acid preservative. The filtration process employs new glass containers which are discarded and laboratory quality disposable filtering containers which are also discarded. A frequently used filtering procedure employs a vacuum pump to draw sample material through a 0.45 micron filter. The 0.45 micron pore size is standard, but the amount of filter available varies with the type of package selected. Filters are selected on the basis of the relative turbidity of the water sample. Samples which are relatively clean can be efficiently filtered with relatively inexpensive filters while very turbid water will require a very large filter with a high tolerance for sediments. One of many such filters our firm uses are the Nalgene Type A filters in which an upper and lower receptacle chamber are affixed to the filter. Sample material is poured into the upper chamber and a vacuum pump attached to the lower chamber. Simple actuation of the vacuum pump induces the flow of water through the filter and into the lower chamber. The sample is then decanted into the laboratory container and the filter assembly discarded.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days as jobs and projects often do.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

After completion of the field work, the sample containers were delivered to Anametrix, Inc. in San Jose, California. Anametrix, Inc. is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #151.

Personnel

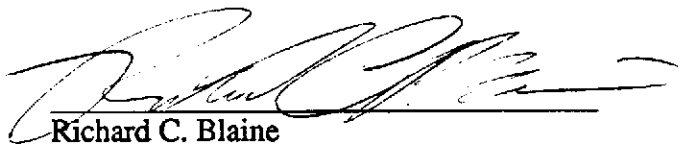
All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Decontamination procedures include complete disassembly of the device to a point where a jet of steam cleaner water can be directed onto all the internal surfaces (this applies to the *inside* of the Teflon bladders of USGS/Middleburg pumps). Teflon conductor tubing is connected to the steam cleaner water outlet and water is run through the interior of the tubing for several minutes. The devices are then reassembled and actuated for a period of time as an additional measure. Blaine Tech Services, Inc. frequently modifies apparatus to allow complete disassembly and proper cleaning.

Please call if we can be of any further assistance.



Richard C. Blaine

RCB/lpn

attachments: chain of custody

BLAINE TECH SERVICES INC.

1370 TULLY ROAD., SUITE 505
SAN JOSE, CA 95122
(408) 995 5535

CHAIN OF CUSTODY 41090SA1

CLIENT PLS / MRCP REALTY

SITE 6707 BAY ST.
EMERYVILLE

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

LAB ANAMETRIX DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ LIA ☐ OTHER ☒ RWQCB REGION 11

SPECIAL INSTRUCTIONS

~~RECEIVE 4°C~~

ROUTINE
ALL VOAs HCl PRESERVED

SAMPLE I.D.	MATRIX (S = SOIL, W = H2O)	CONTAINERS TOTAL		8240 EXTENDED SUITE	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW1	W	3	VOAs	X				
MW3	W	3	"	X				
MW8	W	3	"	X				
					all samples	cold,	no bubbles	

SAMPLING COMPLETED DATE 9591 TIME 14:25

SAMPLING PERFORMED BY J.M. Curtis

RESULTS NEEDED NO LATER THAN ROUTINE

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
J.M. Curtis	9591	16:10		090591	1610

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

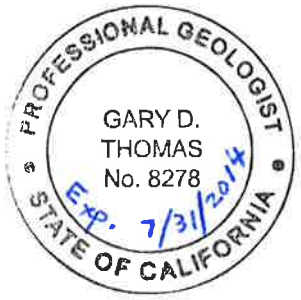
PES Environmental, Inc.
Engineering & Environmental Services

Report Prepared for:

AvalonBay Communities, Inc.
400 Race Street, Suite 200
San Jose, California 95126

SUPPLEMENTAL SUBSURFACE INVESTIGATION REPORT
6701, 6705, and 6707 SHELLMOUND STREET
EMERYVILLE, CALIFORNIA

JANUARY 13, 2014



By:

Gary D. Thomas, P.G. No. 8278
Senior Geologist

Kyle S. Flory, P.G. No. 6472
Principal Geologist

1386.001.01.005

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DISTRIBUTION

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1.0 INTRODUCTION

This report presents the results of a supplemental subsurface investigation of the property located at 6701, 6705, and 6707 Shellmound Street in Emeryville, California (site or subject property; Plates 1 and 2). The investigation was performed by PES Environmental, Inc. (PES) in accordance with our proposal to AvalonBay Communities, Inc. (AvalonBay) dated October 15, 2013. The property, which is improved with asphalt and concrete covered surfaces and buildings, encompasses approximately 2.5 acres and is located in a portion of Emeryville that was reclaimed from San Francisco Bay through filling activities conducted to create buildable land, similar to much of the bay shore area of Emeryville. It is PES' understanding that AvalonBay is considering acquisition of the site and, if acquired, intends to construct a multi-storied multi-family residential development.

The supplemental investigation was conducted to obtain additional physical and chemical data to further our understanding of subsurface conditions and assist with redevelopment planning. The objectives of the supplemental subsurface investigation were to: (1) investigate and better understand subsurface physical conditions of the site fill and how those physical conditions may affect soil and groundwater quality conditions; (2) further evaluate the nature and extent of constituents of concern detected during previous investigations conducted at the site, specifically with respect to volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals (in particular lead); and (3) assess groundwater conditions specifically with respect to concentrations of dissolved metals.

In April 2013 soil, soil gas, and groundwater sampling was conducted by ENVIRON conducted at the site in April 2013. Sample locations SG-1 through SG-5 are shown on Plate 2. For reference, pertinent data from the investigation, along with historical results tables, are provided in Appendix A.

This report is organized as follows:

- Section 2 discusses the investigation field activities and methods for the soil and groundwater sampling activities;
- Section 3 discusses the physical subsurface conditions encountered during the investigation, and the soil and groundwater sampling laboratory analytical results; and
- Section 4 summarizes the results of the supplemental subsurface investigation.

2.0 INVESTIGATION FIELD ACTIVITIES AND METHODS

2.1 Pre-Field Activities

A boring permit was obtained from the Alameda County Public Works Agency, Water Resources Section (ACPWA) prior to drilling. A copy of the drilling permit is included in Appendix B. PES contacted Underground Service Alert more than 48 hours before beginning drilling activities and C. Cruz Sub-Surface Locators, Inc. (C. Cruz) of Milpitas, California, an underground utility locating subcontractor, marked underground utilities and/or screened each proposed work area for subsurface obstructions. In addition, a site-specific Health and Safety Plan (HASP) was prepared in accordance with applicable State and Federal Occupational Safety and Health Administration (OSHA) regulations for use during field work to address potential chemical and physical hazards associated with the supplemental subsurface investigation.

Soil and grab groundwater boring locations are shown on Plate 2. Drilling and sampling activities were conducted with oversight by a licensed California Professional Geologist.

2.2 Field Activities and Methods

2.2.1 Overview Summary of Field Activities

Between November 7 and 11, 2013, a track-mounted, hydraulically driven direct-push soil coring system provided by Cascade Drilling, LP (Cascade) of Richmond, California was utilized to complete the following work:

- A total of 18 soil borings (SB1 through SB18) were drilled to depths of 20 to 25 feet below ground surface (bgs). As discussed below, continuous soil cores were collected from all of the borings. As shown on Plate 2, the locations included:
  - Thirteen borings located in the outdoor portions of the site; and
  - Five borings advanced inside the warehouse building.
- Groundwater samples were collected from temporary well casings placed in six borings (GGW-1 through GGW-6) across the site. The screened interval for the temporary well casing at each location was from 10 to 20 feet bgs.

The methods utilized during the investigation are discussed below.

2.2.2 Boring Advancement and Sampling Methods

Under the supervision of PES, Cascade utilized a track-mounted Geoprobe® 8040DT direct-push rig to advance each boring. The borings were advanced to a total depth of 20 feet bgs with the exception of boring SB14, which was advanced to 25 feet bgs.

Cascade utilized a 3.5-inch outside diameter, dual-wall steel casing system equipped with 5-foot long polyvinyl chloride (PVC) liners to collect 3-inch diameter continuous soil cores from borings SB1 through SB18. The inner PVC liners were removed from the drill casing and the lithology of the soils was logged by PES personnel using the Unified Soil Classification System (USCS). The lithologic logs are presented in Appendix C. The lithologic logs were used to develop geologic cross-sections (refer to Section 3.1).

The grab groundwater borings were advanced by fitting the drill rods with a disposable steel drive point and advancing the rods to the target depth (20 or 25 feet bgs). Upon pushing to the target depth, temporary PVC well casing, as discussed below, was lowered through the drill rods, and the drill rods were retracted to remove the disposable steel drive point and expose the screen interval.

At each boring location, soil samples from targeted depths were collected and placed in plastic bags, and headspace screenings for VOCs were conducted using a photoionization detector (PID). Field PID screening results are included on the boring logs in Appendix C. As indicated on the boring logs and Tables 1 through 4, with the exception of boring SB9, three soil samples were collected from each of the soil borings. Two samples were collected from SB9 because poor soil recovery was obtained in the upper 12 feet of this boring. In general, the soil samples were collected in the following depth intervals:

- Shallow Depth Interval: Sample depths ranged from 1 to 4 feet bgs;
- Intermediate Depth Interval: Sample depths ranged from 4.5 to 9 feet bgs; and
- Deeper Depth Interval: Sample depths ranged from 9.5 to 12.5 feet bgs. These samples were collected in the vadose zone just above first encountered wet soil.

To facilitate collection of groundwater samples, a 0.75-inch diameter temporary PVC well casing was lowered into each borehole. The screened intervals for each temporary well was fitted with a 10-foot section of pre-screened filter pack, consisting of sand surrounding the slotted PVC, encased in a fine wire-mesh housing. Prior to collecting the groundwater samples, each boring was purged with a peristaltic pump. New tubing was utilized at each groundwater sampling location. Blaine Tech Services (Blaine Tech) of San Jose, California, assisted PES with purging and sampling the groundwater borings. During purging, the following field indicator parameters were measured using a multi-parameter field instrument:

- Temperature (degrees Celsius [°C]);
- Conductivity (μS/cm);
- Dissolved oxygen (DO; milligrams per liter [mg/L]);
- pH (standard units);

- Oxidation-reduction potential (ORP; millivolts [mV]); and
- Turbidity (Nephelometric turbidity units [NTUs]).

Purging was continued until the field indicator parameters were stable, to the extent practicable. Groundwater sampling forms containing purge data and field indicator parameter measurements are presented in Appendix D. Groundwater samples were collected from the temporary PVC wells with a peristaltic pump equipped with new disposable tubing at each location. The groundwater samples, which were analyzed for dissolved metals, were field filtered with a 0.45-micron filter into nitric acid-preserved laboratory-provided sample containers. The field filtration process was conducted in accordance with U.S. Environmental Protection Agency (U.S. EPA)-approved methodology (U.S. EPA, 1989[1]).

The soil and groundwater samples were labeled to indicate project location, job number, boring number, sample number, and time and date collected and then immediately placed in a thermally-insulated cooler containing ice. The samples were transported under chain-of-custody protocol to Curtis & Tompkins, Ltd. Analytical Laboratories (C&T) of Berkeley, California, a state-certified laboratory. The soil samples were placed on "hold" at the laboratory pending possible future evaluation.

Downhole drilling and sampling equipment was either steam cleaned or cleaned using a non-phosphate detergent, and double-rinsed with potable water, prior to initiating work and between each sampling location. Following the completion of each day's sampling activities, Cascade removed the temporary well casing, where necessary, and backfilled the borings by tremie-grouting with neat Portland cement mixed with the appropriate amount of clean water in accordance with ACPWA requirements. The borings were grouted from the bottom using at tremie pipe. An ACPWA inspector was periodically on-site to observe the grouting activities.

2.2.3 Soil and Groundwater Analytical Methods

The groundwater samples were analyzed for dissolved Title 22 list of 17 metals using United States Environmental Protection Agency (U.S. EPA) Test Method 6010B and U.S. EPA Test Method 7470A for mercury.

After further evaluation, select soil samples were analyzed by C&T for one or more of the following analyses: (1) VOCs by U.S. EPA Test Method 8260B; (2) SVOCs by U.S. EPA Test Method 8270C; (3) PCBs by U.S. EPA Test Method 8282; (4) lead using U.S. EPA Test Method 6010B; or (5) Title 22 list of 17 metals using U.S. EPA Test Method 6010B and U.S. EPA Test Method 7471A for mercury.

[1] U.S. EPA, 1989. *Superfund Ground Water Issue, Ground Water Sampling for Metals Analyses*. Prepared by Robert W. Puls and Michael J. Barcelona. March.

Additionally, selected soil samples were analyzed for soluble metals using leaching tests to evaluate for hazardous characteristics based on the levels of soluble metals: (1) Soluble Threshold Limit Concentration (STLC) metals (i.e., lead) using the California Waste Extraction Test (WET) with extracts digested using U.S. EPA Test Method 3010A and analyzed by U.S. EPA Test Method 6010B; and (2) Toxicity Characteristic Leaching Procedure (TCLP) metals (i.e., lead) subjected to the TCLP with extracts digested using U.S. EPA Test Method 3010A and analyzed by U.S. EPA Test Method 6010B for lead[2].

3.0 INVESTIGATION RESULTS

Analytical results for the soil and groundwater samples are summarized in Tables 1 through 5. Laboratory analytical reports and chain-of-custody forms are presented in Appendix E. Analytical results for lead in soil for the current and prior investigations are presented on cross sections A-A', B-B', C-C', and D-D' (Plates 3 through 6, respectively; refer to Plate 2 for the alignment of the cross sections).

3.1 Physical Subsurface Conditions

Physical subsurface conditions at the site are presented on four cross sections; alignments are shown on Plate 2. Lithologic logs of the soil borings are presented in Appendix C. The east-west trending cross sections A-A' and B-B' are shown on Plates 3 and 4, respectively, and north-south trending cross sections C-C' and D-D' are shown on Plates 5 and 6, respectively. These cross sections were generated using the lithologic data from the soil borings advanced during the PES' supplemental subsurface investigation and from lithologic data obtained during previous site investigations. As shown on the cross sections, soil beneath the site generally consists of:

- Fill material was encountered throughout the site. This material consisted of coarse-grained sands and gravels that contain varying amounts of fines, and fine--grained silts and clays with varying amounts of sand and gravel. In general, the fill material in the northern portion of the site mainly consists of coarse-grained material. The fill material ranges from 14 to 19 feet thick, and is generally thinner in the central portion of the site (i.e., along the trend of cross section B-B') and toward the west, and thickest toward the northern and southern portions of the site;

[2] Soils in California may be classified as California or non-RCRA Hazardous Waste if either their total concentrations exceed the TTLC or if leaching concentrations exceed the STLC values, as determined via the WET. A soil may also be classified as a Resource Conservation and Recovery Act (RCRA) hazardous waste if leachate concentrations, as determined from the TCLP, exceed the TCLP limits.

Fill material debris[3] has been encountered throughout the site, but is generally most abundant on the western half of the site and at depths below approximately 8 to 10 feet bgs. The approximate percent and content of the debris encountered beneath the site is shown on the cross sections and on the lithologic logs; and

- Fine-grained soils were encountered directly below the fill material. These soils generally consisted of very dark greenish gray to greenish gray clays and occasional silts that are soft to medium stiff. These soils represent Bay Mud deposits.

Wet soil was encountered at depths ranging between 11 to 13 feet bgs during this investigation. A possible hydrocarbon odor and sheen were noted in first encountered wet soil in borings SB1 and SB2, which are located in the southwest portion of the site (Plate 2). Specific lithologies encountered at each boring are described in the attached boring logs (Appendix C).

3.2 Soil Analytical Results

3.2.1 Organic Constituents

3.2.1.1 Volatile Organic Compounds

As indicated on Table 1, acetone (at 35 micrograms per kilogram [μg/kg]) was the only VOC constituent detected in the two soil samples collected from boring SB2.

3.2.1.2 Semivolatile Organic Compounds

Eighteen (18) different SVOCs were detected in the soil samples collected during the subsurface investigation (Table 2). As indicated on Table 2, six of the detected SVOCs are at concentrations equal to or above residential screening levels[4]. The detected concentration ranges for these six SVOC compounds are summarized below:

- Benzo (a) anthracene: Detected in 4 of 10 samples at concentrations ranging from 340 μg/kg (8 feet bgs sample in boring SB7) to 2,400 μg/kg (4 feet bgs sample in boring SB6);

- Benzo (a) pyrene: Detected in 3 of 10 samples at concentrations ranging from 900 μg/kg (5.5 feet bgs sample in boring SB11) to 3,000 μg/kg (4 feet bgs sample in boring SB6);

[3] Debris material encountered during site investigations includes brick, metal, concrete, asphalt, glass, wood, fabric, and rubber.

[4] U.S. Environmental Protection Agency (U.S. EPA), Region 9, November 2013 Regional Screening Levels (RSLs) for residential soil.

- Benzo (b) fluoranthene: Detected in 4 of 10 samples at concentrations ranging from 970 µg/kg (7.5 feet bgs sample in boring SB2) to 3,700 µg/kg (4 feet bgs sample in boring SB6);

- Benzo (k) fluoranthene: Detected in 2 of 10 samples at concentrations of 360 µg/kg (7.5 feet bgs sample in boring SB2) and 1,500 µg/kg (4 feet bgs sample in boring SB6);

- Indeno (1,2,3-cd) pyrene: Detected in 2 of 10 samples at concentrations of 340 µg/kg (7.5 feet bgs sample in boring SB2) and 1,300 µg/kg (4 feet bgs sample in boring SB6); and

- Naphthalene: Detected in 5 of 10 samples at concentrations ranging from 260 µg/kg (1.5 feet bgs sample in boring SB13) to 28,000 µg/kg (8 feet bgs sample in boring SB7).

3.2.1.3 Polychlorinated Biphenyls

As shown on Table 3, one or more PCB congener was detected in all of the 17 samples analyzed for PCBs. PCBs detected in the samples included Aroclor-1260, Aroclor-1262, and Aroclor-1268. The total PCB concentrations in the samples ranged from 0.013 milligrams per kilogram (mg/kg, 3.5 feet bgs sample in boring SB14) to 10 mg/kg (3 feet bgs sample in boring SB5). Eight of the 10 detections of Aroclor-1260 are at concentrations are above residential screening levels.

3.2.2 Metals

Fifteen (15) different metals were detected in the soil samples collected and analyzed during the subsurface investigation (Table 4). As indicated on Table 4, nine of the detected metals are at concentrations equal to or above residential screening levels and two of these nine metals are at concentrations above their respective Total Threshold Limit Concentration (TTLC) values. The detected concentration ranges for these nine metals are summarized below:

- Antimony: Detected in 7 of 17 samples analyzed at concentrations ranging from 0.62 mg/kg (5.5 feet bgs sample in boring SB11) to 7.5 mg/kg (10 feet bgs sample in boring SB6). No samples displayed concentrations of cadmium in excess of the respective TTLC;

- Arsenic: Detected in all 17 samples analyzed at concentrations ranging from 2.3 mg/kg (8 feet bgs sample in boring SB8) to 49 mg/kg (10 feet bgs sample in boring SB18). No samples displayed concentrations of arsenic in excess of the respective TTLC;

- Cadmium: Detected in 16 of 17 samples analyzed at concentrations ranging from 0.44 mg/kg (1.5 feet bgs sample in boring SB3) to 13 mg/kg (7.5 feet bgs sample in boring SB15). No samples displayed concentrations of cadmium in excess of the respective TTLC;

- Cobalt: Detected in all 17 samples analyzed at concentrations ranging from 4.4 mg/kg (8 feet bgs sample in boring SB8) to 26 mg/kg (5 feet bgs sample in boring SB13). No samples displayed concentrations of cobalt in excess of the respective TTLC;

- Copper: Detected in all 17 samples analyzed at concentrations ranging from 4.7 mg/kg (8 feet bgs sample in boring SB8) to 450 mg/kg (7.5 feet bgs sample in boring SB15 and 10 feet bgs sample in boring SB18). No samples displayed concentrations of copper in excess of the respective TTLC;

- Lead: Detected in all 53 samples analyzed at concentrations ranging from 1.7 mg/kg (11.5 feet bgs sample in boring SB11) to 10,000 mg/kg (10 feet bgs sample in boring SB4). The concentrations of lead in five of the samples exceed the TTLC for lead (1,000 mg/kg);

- Nickel: Detected in all 17 samples analyzed at concentrations ranging from 23 mg/kg (1.5 feet bgs sample in boring SB3) to 190 mg/kg (10 feet bgs sample in boring SB6, 3.5 feet bgs sample in boring SB14, and 10 feet bgs sample in boring SB18). No samples displayed concentrations of nickel in excess of the respective TTLC;

- Vanadium: Detected in all 17 samples analyzed at concentrations ranging from 26 mg/kg (1.5 feet bgs sample in boring SB3) to 11,000 mg/kg (10 feet bgs sample in boring SB18). The concentration of 11,000 mg/kg exceeds the TTLC for vanadium (2,400 mg/kg); and

- Zinc: Detected in all 17 samples analyzed at concentrations ranging from 19 mg/kg (8 feet bgs sample in boring SB8) to 2,500 mg/kg (10 feet bgs sample in boring SB18). No samples displayed concentrations of zinc in excess of the respective TTLC.

3.2.3 Extractable Metals Results

The WET was performed on selected samples with total lead concentrations that were at least 10 times the STLC lead limit of 5.0 mg/L, but less than 1,000 mg/kg. Of the seven samples analyzed, the following five results are at concentrations above the STLC lead limit:

- In boring SB4 (7.5 mg/L in the 5 feet bgs sample);

- In boring SB5 (7.7 mg/L in the 3 feet bgs sample);

- In boring SB12 (12 mg/L in the 2 feet bgs sample);

- In boring SB16 (14 mg/L in the 7.5 feet bgs sample); and

- In boring SB7 (39 mg/L in the 8 feet bgs sample).

The TCLP was performed on eight soil samples with an elevated total lead concentration (see Table 4). As indicated on Table 4, the TCLP lead result for the 5.5 feet bgs sample collected from boring SB1 (6.1 mg/L) was above the TCLP lead limit of 5.0 mg/L. None of the other samples analyzed for TCLP contained a concentration of soluble lead above 5.0 mg/L.

3.3 Groundwater Analytical Results

Eleven (11) different dissolved metals were detected in the groundwater samples collected during the subsurface investigation (Table 5). As indicated on Table 5 and summarized below, two of the metals are at concentrations above their respective State of California Maximum Contaminant Levels (MCLs[5]):

- Arsenic: Detected in 2 of 6 samples at concentrations of 6.4 micrograms per liter (μg/L, boring GGW-2) and 32 μg/L (boring GGW-3). The concentration of 32 μg/L is above the drinking water ESL for arsenic (10 μg/L); and

- Lead: Detected in all 6 samples at concentrations ranging from 1.3J[6] μg/L (boring GGW-4) to 190 μg/L (boring GGW-2). The concentrations of lead in the groundwater samples collected from borings GGW-1, GGW-2, and GGW-3 are above the drinking water ESL for lead (15 μg/L).

As discussed above, the maximum concentration of dissolved lead detected in groundwater was 190 μg/L in boring GGW-2. This boring is located on the western portion of the site (Plate 2). However, as indicated in Table 4 in Appendix A, significantly higher lead concentrations and other metals were detected in groundwater during the April 2013 investigation. Concentrations of lead detected during the April 2013 investigation were as follows:

- Location SG-1 (located on eastern portion of site): 2,700 μg/L;

- Location SG-4 (located on western portion of site): 26,000 μg/L; and

- Location SG-5 (located on western portion of site): 60,000 μg/L.

Based on the comparison of these results, it appears that the April 2013 results for lead and other metals are anomalously high and; therefore, not representative of groundwater conditions beneath the site.

[5] California Department of Public Health Maximum Contaminant Levels (MCLs).
[6] J = Estimated value.

4.0 SUMMARY

In November 2013, PES conducted a supplemental subsurface investigation at the subject property. The investigation consisted of drilling, logging and sampling 18 soil borings in interior (5 soil borings) and exterior (13 soil borings) locations. Large diameter continuous soil cores were retrieved from the soil borings and logged to better understand subsurface lithologic and fill material conditions.

In summary, the results of the supplemental investigation indicate:

- Fill material ranging from 14 to 19 feet thick underlies the entire, and is generally thinner in the central portion of the site and toward the west, and thickest toward the northern and southern portions of the site. Fill material debris, including brick, metal, concrete, asphalt, glass, wood, fabric, and rubber, has been encountered throughout the site, but is generally most abundant on the western half of the site and at depths below approximately 8 to 10 feet bgs. Fine-grained Bay Mud deposits were encountered directly below the fill material;

- The soil results for samples collected from the fill material suggest the presence of elevated concentrations (i.e., equal to or above residential screening levels) of SVOCs, PCBs, and metals. Lead concentrations in 9 of the 53 samples analyzed exceed residential screening levels and the concentrations of lead in five of the samples also exceed the TTLC for lead of 1,000 mg/kg;

- WET was performed on seven selected samples; five of the seven results were at concentrations above the STLC lead limit. The TCLP was performed on eight soil samples with elevated total lead concentrations. Only one sample contained a concentration that was above the TCLP lead limit of 5.0 mg/L;

- April 2013 groundwater results for lead and other metals are anomalously high and are not representative site conditions; and

- Groundwater is impacted with dissolved metals (i.e., arsenic and lead) that exceed California MCLs.

TABLES

Table 1
Summary of Laboratory Analytical Results for Soil - VOCs
6701 Shellmound Street
Emeryville, California

Boring Location	Sample Number	Sample Depth (Feet bgs)	Date Collected	Acetone (µg/kg)	Other VOCs (µg/kg)
SB2	SB2-4.0	4	11/7/2013	ND(20)	ND
SB2	SB2-7.5	7.5	11/7/2013	**35**	ND
			Residential Soil RSLs [(1)]	**6,100,000**	N/A

Notes:

Detections are shown in bold.

bgs = Below ground surface.

VOCs = Volatile organic compounds.

µg/kg = Micrograms per kilogram.

ND(20) = Not detected at or above the indicated laboratory reporting limit.

ND = Not detected.

NE = Not Established.

N/A = Not applicable.

1. United States Environmental Protection Agency (U.S. EPA), Region 9, November 2013 Regional Screening Levels (RSLs) for residential soil.

- Results equal to or exceeding RSLs are shaded.

Table 2
Summary of laboratory Analytical Results for Soil - SVOCs
6701 Shellmound Street
Emeryville, California

Boring Location	Sample Number	Sample Depth (Feet bgs)	Date Collected	Acenaphthene (µg/kg)	Acenaphthylene (µg/kg)	Anthracene (µg/kg)	Benzo (a) Anthracene (µg/kg)	Benzo (a) Pyrene (µg/kg)	Benzo (b) Fluoranthene (µg/kg)	Benzo (k) Fluoranthene (µg/kg)	Benzo (g,h,i) Perylene (µg/kg)	Chrysene (µg/kg)	Fluoranthene (µg/kg)	Fluorene (µg/kg)	Indeno (1,2,3-cd) Pyrene (µg/kg)	2-Methyl-naphthalene (µg/kg)	4-Methylphenol (µg/kg)	Naphthalene (µg/kg)	N-Nitrosodi-phenylamine (µg/kg)	Phenanthrene (µg/kg)	Pyrene (µg/kg)
SB2	SB2-4.0	4	11/7/2013	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(330)	ND(67)	ND(330)	ND(67)	ND(67)
SB2	SB2-7.5	7.5	11/7/2013	ND(130)	**270**	**630**	**1,200**	**970**	**970**	**360**	**330**	**1,400**	**2,100**	**210**	**340**	ND(130)	ND(660)	ND(130)	ND(660)	**2,400**	**2,300**
SB6	SB6-4.0	4	11/7/2013	ND(660)	ND(660)	**1,200**	**2,400**	**3,000**	**3,700**	**1,500**	**1,400**	**2,900**	**4,400**	**810**	**1,300**	ND(660)	ND(3,300)	**2,900**	ND(3,300)	**5,500**	**4,500**
SB6	SB6-10.0	10	11/7/2013	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(330)	ND(67)	ND(330)	ND(67)	ND(67)
SB7	SB7-2.5	2.5	11/8/2013	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	ND(330)	**10,000**	**1,500**	ND(1,700)	**450**	ND(330)
SB7	SB7-8.0	8	11/8/2013	**500**	ND(330)	**340**	**340**	ND(330)	ND(330)	ND(330)	ND(330)	**470**	**1,100**	**680**	ND(330)	**9,200**	ND(1,600)	**28,000**	**1,700**	**2,400**	**1,100**
SB11	SB11-2.0	2	11/8/2013	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(1,300)	ND(6,600)	ND(1,300)	ND(6,600)	ND(1,300)	**1,300**
SB11	SB11-5.5	5.5	11/8/2013	ND(670)	ND(670)	ND(670)	ND(670)	**900**	**990**	ND(670)	ND(670)	**820**	**1,800**	ND(670)	ND(670)	ND(670)	ND(3,300)	ND(670)	ND(3,300)	**750**	**2,300**
SB13	SB13-1.5	1.5	11/8/2013	ND(66)	ND(66)	ND(66)	ND(66)	ND(66)	ND(66)	ND(66)	ND(66)	ND(66)	ND(66)	ND(66)	ND(66)	**92**	ND(330)	**260**	ND(330)	ND(66)	**79**
SB13	SB13-10.0	10	11/8/2013	ND(1,700)	ND(1,700)	ND(1,700)	**2,000**	ND(1,700)	**1,800**	ND(1,700)	ND(1,700)	**2,100**	**4,200**	ND(1,700)	ND(1,700)	**2,000**	ND(8,300)	**2,100**	ND(8,300)	**7,500**	**4,000**
Residential Soil RSLs [1]				**340,000**	**NE**	**1,700,000**	**150**	**15**	**150**	**1,500**	**NE**	**15,000**	**230,000**	**230,000**	**150**	**23,000**	**NE**	**3,600**	**NE**	**NE**	**170,000**

Notes:
Detections are shown in bold.
bgs = Below ground surface.
µg/kg = Micrograms per kilogram.
ND(67) = Not detected at or above the indicated laboratory reporting limit.
NE = Not established.
1. United States Environmental Protection Agency (U.S. EPA), Region 9, November 2013 Regional Screening Levels (RSLs) for residential soil.
- Results equal to or exceeding RSLs are shaded.

Table 3
Summary of laboratory Analytical Results for Soil - PCBs
6701 Shellmound Street
Emeryville, California

Boring Location	Sample Number	Depth (feet bgs)	Date Collected	Aroclor-1016 (µg/kg)	Aroclor-1221 (µg/kg)	Aroclor-1232 (µg/kg)	Aroclor-1242 (µg/kg)	Aroclor-1248 (µg/kg)	Aroclor-1254 (µg/kg)	Aroclor-1260 (µg/kg)	Aroclor-1262 (µg/kg)	Aroclor-1268 (µg/kg)	Total PCBs (µg/kg)
SB5	SB5-3.0	3	11/7/2013	ND(170)	ND(330)	ND(170)	ND(170)	ND(170)	ND(170)	**10,000**	ND(170)	ND(170)	**10,000**
SB5	SB5-8.0	8	11/7/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)	**180**	ND(12)	**180**
SB5	SB5-11.5	11.5	11/7/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)	**140**	ND(12)	**140**
SB6	SB6-4.0	4	11/7/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	**570**	ND(12)	ND(12)	**570**
SB6	SB6-8.0	8	11/7/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)	**160**	ND(12)	**160**
SB6	SB6-10.0	10	11/7/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	ND(12)	**48**	ND(12)	**48**
SB7	SB7-2.5	2.5	11/8/2013	ND(82)	ND(160)	ND(82)	ND(82)	ND(82)	ND(82)	**1,900**	ND(82)	ND(82)	**1,900**
SB7	SB7-8.0	8	11/8/2013	ND(42)	ND(84)	ND(42)	ND(42)	ND(42)	ND(42)	ND(42)	**1,500**	ND(42)	**1,500**
SB11	SB11-2.0	2	11/8/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	**380**	ND(12)	ND(12)	**380**
SB11	SB11-5.5	5.5	11/8/2013	ND(42)	ND(83)	ND(42)	ND(42)	ND(42)	ND(42)	**1,200**	ND(42)	**1,400**	**2,600**
SB12	SB12-2.0	2	11/8/2013	ND(42)	ND(85)	ND(42)	ND(42)	ND(42)	ND(42)	**2,000**	ND(42)	ND(42)	**2,000**
SB12	SB12-5.0	5	11/8/2013	ND(41)	ND(82)	ND(41)	ND(41)	ND(41)	ND(41)	ND(41)	**1,200**	ND(41)	**1,200**
SB12	SB12-10.0	10	11/8/2013	ND(83)	ND(170)	ND(83)	ND(83)	ND(83)	ND(83)	ND(83)	**6,500**	ND(83)	**6,500**
SB13	SB13-1.5	1.5	11/8/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	**270**	ND(12)	ND(12)	**270**
SB13	SB13-5.0	5	11/8/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	**18**	ND(12)	ND(12)	**18**
SB13	SB13-10.0	10	11/8/2013	ND(84)	ND(170)	ND(84)	ND(84)	ND(84)	ND(84)	**3,300**	ND(84)	**1,900**	**5,200**
SB14	SB14-3.5	3.5	11/9/2013	ND(12)	ND(24)	ND(12)	ND(12)	ND(12)	ND(12)	**13**	ND(12)	ND(12)	**13**
Residential Soil RSLs [1]				**390**	**140**	**140**	**220**	**220**	**110**	**220**	**NE**	**NE**	**NE**

Notes:
Detections are shown in bold.
bgs = below ground surface.
µg/kg = Micrograms per kilogram.
PCBs= Polychlorinated biphenyls.
ND(24) = Compound not detected at or above the indicated laboratory reporting limit.
NE = Not established.
1. United States Environmental Protection Agency (U.S. EPA), Region 9, November 2013 Regional Screening Levels (RSLs) for residential soil.
- Results equal to or exceeding RSLs are shaded.

Table 4
Summary of laboratory Analytical Results for Soil - California Title 22 Metals, STLC, and TCLP
6701 Shellmound Street
Emeryville, California

Boring Location	Sample Number	Sample Depth (Feet bgs)	Date Collected	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	STLC Lead (mg/L)	TCLP Lead (mg/L)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SB1	SB1-1.0	1	11/7/2013	ND(0.51)	5.9	160	0.39	0.94	86	13	52	81	--	--	0.22	ND(0.25)	100	ND(0.51)	ND(0.25)	ND(0.51)	51	190
SB1	SB1-5.5	5.5	11/7/2013	--	--	--	--	--	--	--	--	1,300	--	6.1	--	--	--	--	--	--	--	--
SB1	SB1-11.75	11.75	11/7/2013	--	--	--	--	--	--	--	--	2,400	--	0.75	--	--	--	--	--	--	--	--
SB2	SB2-4.0	4	11/7/2013	--	--	--	--	--	--	--	--	20	--	--	--	--	--	--	--	--	--	--
SB2	SB2-7.5	7.5	11/7/2013	--	--	--	--	--	--	--	--	120	2.7	--	--	--	--	--	--	--	--	--
SB2	SB2-10.75	10.75	11/7/2013	--	--	--	--	--	--	--	--	240	--	--	--	--	--	--	--	--	--	--
SB3	SB3-1.5	1.5	11/7/2013	ND(0.46)	3.4	150	0.59	0.44	16	6.9	16	14	--	--	0.39	ND(0.23)	23	ND(0.46)	ND(0.23)	ND(0.46)	26	46
SB3	SB3-7.5	7.5	11/7/2013	--	--	--	--	--	--	--	--	340	1.8	1.1	--	--	--	--	--	--	--	--
SB3	SB3-11.0	11	11/7/2013	3.3	7.5	810	0.39	4.3	46	10	170	460	--	--	0.17	4.6	38	ND(0.50)	ND(0.25)	ND(0.50)	42	920
SB4	SB4-1.5	1.5	11/7/2013	--	--	--	--	--	--	--	--	18	--	--	--	--	--	--	--	--	--	--
SB4	SB4-5.0	5	11/7/2013	--	--	--	--	--	--	--	--	110	7.5	--	--	--	--	--	--	--	--	--
SB4	SB4-10.0	10	11/7/2013	--	--	--	--	--	--	--	--	10,000	--	2.4	--	--	--	--	--	--	--	--
SB5	SB5-3.0	3	11/7/2013	--	--	--	--	--	--	--	--	430	7.7	0.27	--	--	--	--	--	--	--	--
SB5	SB5-8.0	8	11/7/2013	3.1	6.7	100	0.21	0.77	39	6.3	100	100	--	--	0.19	0.34	38	ND(0.50)	ND(0.25)	ND(0.50)	29	170
SB5	SB5-11.5	11.5	11/7/2013	--	--	--	--	--	--	--	--	1,100	--	1.0	--	--	--	--	--	--	--	--
SB6	SB6-4.0	4	11/7/2013	--	--	--	--	--	--	--	--	140	--	--	--	--	--	--	--	--	--	--
SB6	SB6-8.0	8	11/7/2013	--	--	--	--	--	--	--	--	58	--	--	--	--	--	--	--	--	--	--
SB6	SB6-10.0	10	11/7/2013	7.5	5.6	140	0.27	1.9	140	16	390	160	--	--	0.13	4.9	190	6.0	ND(0.26)	ND(0.52)	41	270
SB7	SB7-2.5	2.5	11/8/2013	0.75	5.0	160	0.25	1.2	34	9.0	74	120	--	--	0.19	0.69	49	0.66	ND(0.23)	ND(0.47)	35	220
SB7	SB7-8.0	8	11/8/2013	--	--	--	--	--	--	--	--	250	39	--	--	--	--	--	--	--	--	--
SB7	SB7-12.5	12.5	11/8/2013	--	--	--	--	--	--	--	--	2.1	--	--	--	--	--	--	--	--	--	--
SB8	SB8-3.5	3.5	11/8/2013	--	--	--	--	--	--	--	--	200	--	--	--	--	--	--	--	--	--	--
SB8	SB8-8.0	8	11/8/2013	ND(0.51)	2.3	32	ND(0.10)	ND(0.25)	33	4.4	4.7	3.1	--	--	ND(0.016)	ND(0.25)	24	ND(0.51)	ND(0.25)	ND(0.51)	26	19
SB8	SB8-12.0	12	11/8/2013	--	--	--	--	--	--	--	--	3.0	--	--	--	--	--	--	--	--	--	--
SB9	SB9-4.5	4.5	11/8/2013	ND(0.49)	5.4	120	0.32	0.81	45	10	46	41	--	--	0.12	1.5	38	ND(0.49)	ND(0.24)	ND(0.49)	36	110
SB9	SB9-10.0	10	11/8/2013	--	--	--	--	--	--	--	--	50	--	--	--	--	--	--	--	--	--	--
SB10	SB10-2.0	2	11/8/2013	ND(0.47)	6.9	550	0.33	0.58	38	6.9	27	45	--	--	0.15	0.61	36	ND(0.47)	ND(0.23)	ND(0.47)	34	90
SB10	SB10-5.0	5	11/8/2013	--	--	--	--	--	--	--	--	49	--	--	--	--	--	--	--	--	--	--
SB10	SB10-10.0	10	11/8/2013	--	--	--	--	--	--	--	--	21	--	--	--	--	--	--	--	--	--	--
SB11	SB11-2.0	2	11/8/2013	--	--	--	--	--	--	--	--	28	--	--	--	--	--	--	--	--	--	--
SB11	SB11-5.5	5.5	11/8/2013	0.62	9.2	140	0.26	1.2	160	10	260	170	--	--	0.17	21	170	ND(0.54)	ND(0.27)	ND(0.54)	36	300
SB11	SB11-11.5	11.5	11/8/2013	--	--	--	--	--	--	--	--	1.7	--	--	--	--	--	--	--	--	--	--
SB12	SB12-2.0	2	11/8/2013	--	--	--	--	--	--	--	--	130	12	1.1	--	--	--	--	--	--	--	--
SB12	SB12-5.0	5	11/8/2013	--	--	--	--	--	--	--	--	320	--	--	--	--	--	--	--	--	--	--
SB12	SB12-10.0	10	11/8/2013	ND(0.49)	5.9	210	0.27	1.3	31	6.6	44	290	--	--	0.18	0.28	29	ND(0.49)	ND(0.25)	ND(0.49)	30	1,900
SB13	SB13-1.5	1.5	11/8/2013	--	--	--	--	--	--	--	--	68	--	--	--	--	--	--	--	--	--	--
SB13	SB13-5.0	5	11/8/2013	ND(0.47)	8.4	270	0.42	0.70	23	26	30	54	--	--	0.070	0.37	27	1.6	ND(0.23)	ND(0.47)	45	100
SB13	SB13-10.0	10	11/8/2013	--	--	--	--	--	--	--	--	3,300	--	--	--	--	--	--	--	--	--	--
SB14	SB14-3.5	3.5	11/9/2013	ND(0.46)	7.7	170	0.54	0.67	140	19	33	11	--	--	0.060	ND(0.23)	190	4.5	ND(0.23)	ND(0.46)	53	63
SB14	SB14-8.5	8.5	11/9/2013	--	--	--	--	--	--	--	--	100	--	--	--	--	--	--	--	--	--	--
SB14	SB14-11.5	11.5	11/9/2013	--	--	--	--	--	--	--	--	250	--	--	--	--	--	--	--	--	--	--

Table 4
Summary of laboratory Analytical Results for Soil - California Title 22 Metals, STLC, and TCLP
6701 Shellmound Street
Emeryville, California

Boring Location	Sample Number	Sample Depth (Feet bgs)	Date Collected	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	STLC Lead (mg/L)	TCLP Lead (mg/L)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SB15	SB15-2.5	2.5	11/9/2013	--	--	--	--	--	--	--	--	**8.2**	--	--	--	--	--	--	--	--	--	--
SB15	SB15-7.5	7.5	11/9/2013	**3.8**	**4.6**	**250**	**0.27**	**13**	**43**	**6.6**	**450**	**870**	--	--	**0.14**	**0.43**	**48**	ND(0.50)	ND(0.25)	ND(0.50)	**40**	**1,700**
SB15	SB15-11.5	11.5	11/9/2013	--	--	--	--	--	--	--	--	**130**	--	--	--	--	--	--	--	--	--	--
SB16	SB16-2.5	2.5	11/9/2013	--	--	--	--	--	--	--	--	**19**	--	--	--	--	--	--	--	--	--	--
SB16	SB16-7.5	7.5	11/9/2013	--	--	--	--	--	--	--	--	**280**	**14**	**1.8**	--	--	--	--	--	--	--	--
SB16	SB16-10.5	10.5	11/9/2013	**1.4**	**11**	**180**	**0.34**	**0.89**	**53**	**6.7**	**51**	**210**	--	--	**0.24**	ND(0.26)	**34**	**3.4**	ND(0.26)	ND(0.52)	**41**	**510**
SB17	SB17-2.0	2	11/9/2013	ND(0.47)	**7.8**	**150**	**0.46**	**0.61**	**41**	**12**	**32**	**54**	--	--	**0.12**	ND(0.24)	**43**	ND(0.47)	ND(0.24)	ND(0.47)	**53**	**87**
SB17	SB17-5.0	5	11/9/2013	--	--	--	--	--	--	--	--	**27**	--	--	--	--	--	--	--	--	--	--
SB17	SB17-9.5	9.5	11/9/2013	--	--	--	--	--	--	--	--	**150**	--	--	--	--	--	--	--	--	--	--
SB18	SB18-2.0	2	11/9/2013	--	--	--	--	--	--	--	--	**30**	--	--	--	--	--	--	--	--	--	--
SB18	SB18-5.0	5	11/9/2013	--	--	--	--	--	--	--	--	**34**	--	--	--	--	--	--	--	--	--	--
SB18	SB18-10.0	10	11/9/2013	ND(0.48)	**49**	**640**	**0.47**	**5.5**	**43**	**13**	**450**	**650**	--	--	**0.41**	**5.1**	**190**	**2.8**	ND(0.24)	ND(0.48)	**11,000**	**2,500**
Residential Soil RSLs [2]				**3.1**	**0.61**	**1,500**	**16**	**7.0**	**12,000 [1]**	**2.3**	**310**	**400**	N/A	N/A	**1.0**	**39**	**150**	**39**	**39**	**0.078**	**39**	**2,300**
TTLC [3]				**500**	**500**	**10,000**	**75**	**100**	**2,500**	**8,000**	**2,500**	**1,000**	N/A	N/A	**20**	**3,500**	**2,000**	**100**	**500**	**700**	**2,400**	**5,000**
STLC and TCLP Regulatory Thresholds				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**5.0**	**5.0**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
Detections are shown in bold.
bgs = Below ground surface.
mg/kg = Milligrams per kilogram.
mg/L = Milligrams per liter.
ND(0.24) = Not detected at or above the indicated laboratory reporting limit.
-- = Not analyzed.
N/A = Not applicable.
STLC = Soluble Threshold Limit Concentration.
TCLP = Toxicity Characteristic Leaching Procedure.
1. Value is for chromium III.
2. United States Environmental Protection Agency (U.S. EPA), Region 9, November 2013 Regional Screening Levels (RSLs) for residential soil.
3. TTLC = Total Threshold Limit Concentration.
- Results equal to or exceeding RSLs, STLC or TCLP values are shaded.

Table 5
Summary of Laboratory Analytical Results for Groundwater - Dissolved California Title 22 Metals
6701 Shellmound Street
Emeryville, California

Boring Location	Pre-Pack Well Screen Depth (feet bgs)	Date Collected	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
GGW-1	10 to 20	11/11/2013	ND(10)	ND(5.0)	**250**	ND(2.0)	ND(5.0)	**8.9**	ND(5.0)	ND(5.0)	**59**	**0.28**	**10**	**5.4**	**27**	ND(5.0)	ND(10)	**71**	**210**
GGW-2	10 to 20	11/11/2013	ND(10)	**6.4**	**280**	ND(2.0)	ND(5.0)	**8.0**	ND(5.0)	**9.1**	**190**	**0.41**	ND(5.0)	**8.5**	**26**	ND(5.0)	ND(10)	**22**	**360**
GGW-3	10 to 20	11/11/2013	ND(10)	**32**	**340**	ND(2.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	**17**	ND(0.20)	**8.7**	ND(5.0)	ND(10)	ND(5.0)	ND(10)	ND(5.0)	**29**
GGW-4	10 to 20	11/11/2013	ND(10)	ND(5.0)	**200**	ND(2.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	**1.3 J**	ND(0.20)	**10**	ND(5.0)	ND(10)	ND(5.0)	ND(10)	ND(5.0)	ND(20)
GGW-5	10 to 20	11/11/2013	ND(10)	ND(5.0)	**350**	ND(2.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	**9.9**	**0.21**	**6.6**	**6.4**	ND(10)	ND(5.0)	ND(10)	ND(5.0)	**23**
GGW-6	10 to 20	11/11/2013	ND(10)	ND(5.0)	**94**	ND(2.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	**3.1 J**	ND(0.20)	**5.9**	ND(5.0)	ND(10)	ND(5.0)	ND(10)	ND(5.0)	ND(20)
	California MCLs [1]		**6.0**	**10**	**1,000**	**4.0**	**5.0**	**50** [2]	**NE**	**1,300**	**15**	**2.0**	**NE**	**100**	**50**	**NE**	**2.0**	**NE**	**NE**

Notes:
Detections are shown in bold.
Analytical results presented in micrograms per liter (µg/L).
bgs = below ground surface.
ND(5.0) = Compound not detected at or above the indicated laboratory reporting limit.
J = Estimated value.
1. California Department of Public Health Maximum Contaminant Levels (MCLs).
2. ESL value is for chromium (total).
- Results equal to or exceeding MCLs are shaded.

ILLUSTRATIONS



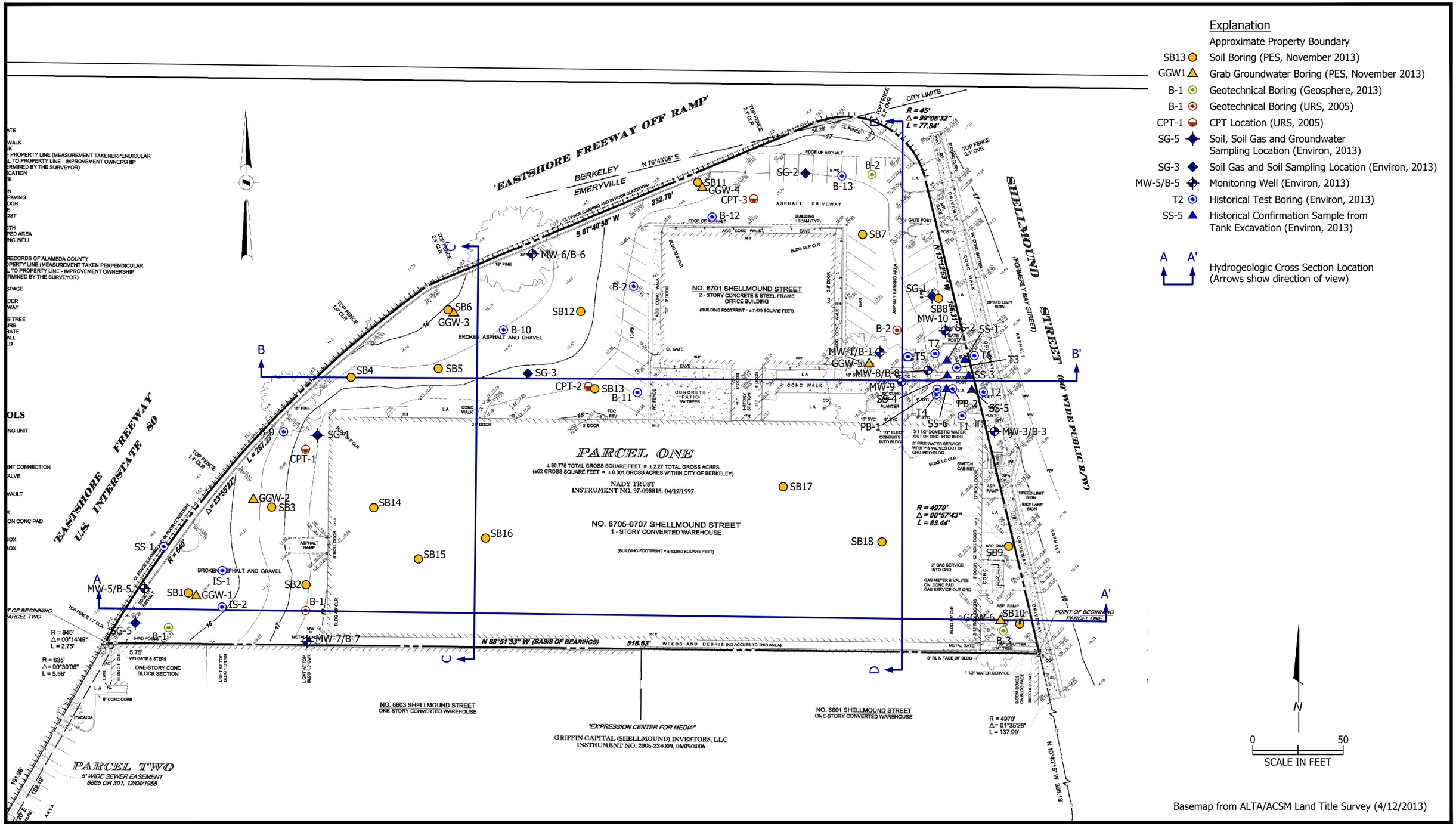
U.S.G.S. Topo Map - Oakland West, California, 7.5-minute quadrangle.1997

PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
Supplemental Subsurface Investigation Report
6701 Shellmound Street
Emeryville, California

PLATE
1

1386.001.01.005	138600101005_xsec_1-6	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate Property Boundary
- SB13 — Soil Boring (PES, November 2013)
- GGW1 — Grab Groundwater Boring (PES, November 2013)
- B-1 — Geotechnical Boring (Geosphere, 2013)
- B-1 — Geotechnical Boring (URS, 2005)
- CPT-1 — CPT Location (URS, 2005)
- SG-5 — Soil, Soil Gas and Groundwater Sampling Location (Environ, 2013)
- SG-3 — Soil Gas and Soil Sampling Location (Environ, 2013)
- MW-5/B-5 — Monitoring Well (Environ, 2013)
- T2 — Historical Test Boring (Environ, 2013)
- SS-5 — Historical Confirmation Sample from Tank Excavation (Environ, 2013)
- A A' — Hydrogeologic Cross Section Location (Arrows show direction of view)

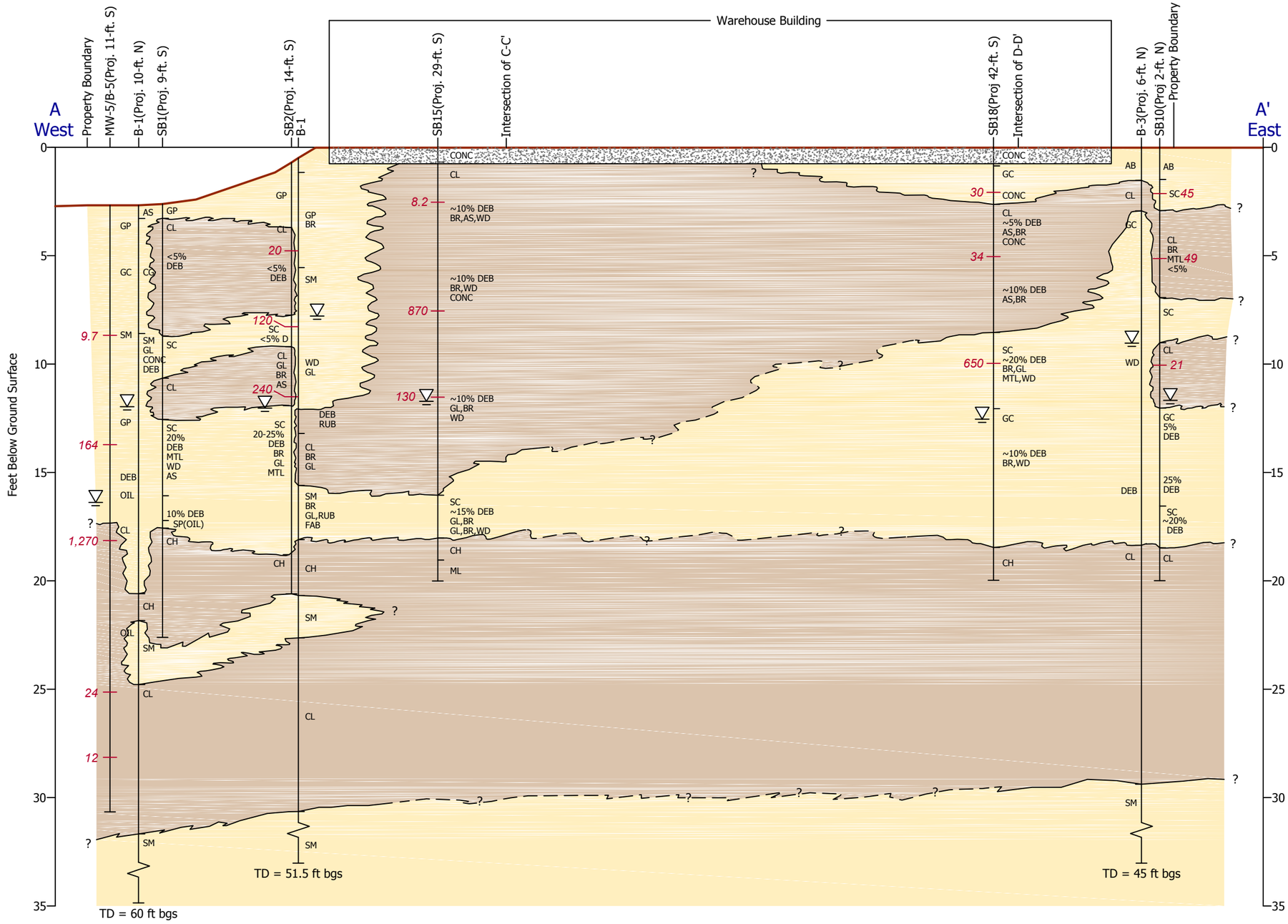
Basemap from ALTA/ACSM Land Title Survey (4/12/2013)

PES Environmental, Inc.
Engineering & Environmental Services

Site Plan and Boring, Well, and Cross Section Location Map
Supplemental Subsurface Investigation Report
6701 Shellmound Street
Emeryville, California

PLATE 2

1386.001.01.005	138600101005_xsec_1-6	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate Ground Surface Elevation
- Geologic Contact (dashed and/or queried where uncertain)
- First encountered wet soil at time of drilling
- bgs — Below Ground Surface
- (Proj. 11-ft. S) — Approximate distance and direction of feature projected to line of cross section
- Soil Boring/Monitoring Well

Soil Description based on Unified Soil Classification System

Predominantly coarse-grained deposits:
- GP = Poorly Graded Gravel
- CG = Clayey Gravel
- SP = Poorly Graded Sand
- SM = Silty Sand
- SC = Clayey Sand

Predominantly fine-grained deposits:
- CL/CH = Clay with and without sand and gravel
- ML/MH = Silt with and without sand and gravel

- Concrete (CONC)

DEB = Debris
BR = Brick
MTL = Metal
CONC = Concrete
AB = Aggregate Base
AS = Asphalt
GL = Glass
WD = Wood
FAB = Fabric
RUB = Rubber

650 — Concentration of lead in soil. Results in milligrams per kilogram (mg/kg).

5 — Vertical Scale in Feet
0 — 50 — Horizontal Scale in Feet

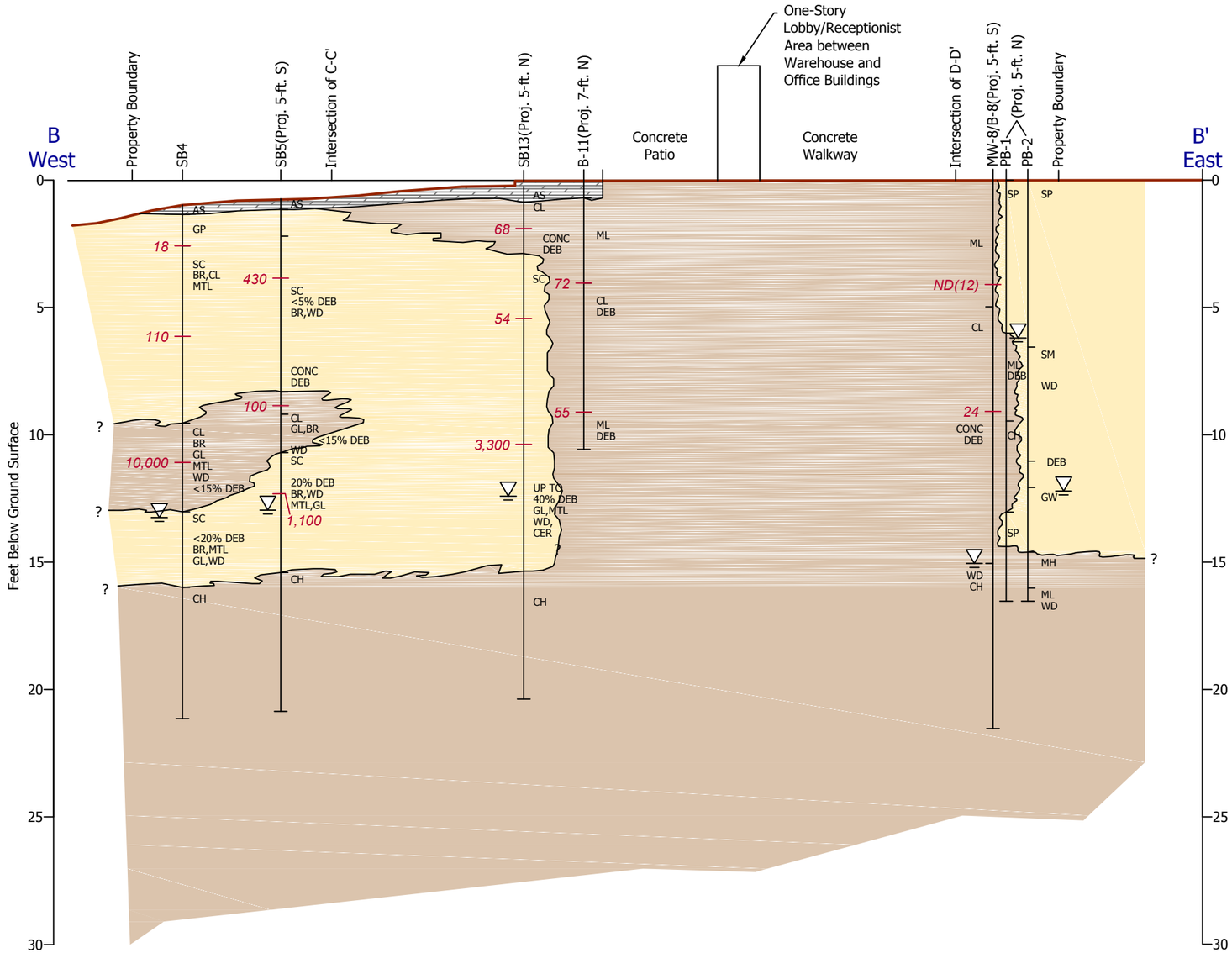
Vertical Exaggeration 10:1

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Cross Section A-A'
Supplemental Subsurface Investigation Report
6701 Shellmound Street
Emeryville, California

PLATE 3

1386.001.01.005	138600101005_xsec_1-6	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate Ground Surface Elevation
- Geologic Contact (dashed and/or queried where uncertain)
- First encountered wet soil at time of drilling
- bgs — Below Ground Surface
- (Proj. 5-ft. S) — Approximate distance and direction of feature projected to line of cross section
- Soil Boring/Monitoring Well

Soil Description based on Unified Soil Classification System

Predominantly coarse-grained deposits:
- GP = Poorly Graded Gravel
- CG = Clayey Gravel
- SP = Poorly Graded Sand
- SM = Silty Sand
- SC = Clayey Sand

Predominantly fine-grained deposits:
- CL/CH = Clay with and without sand and gravel
- ML/MH = Silt with and without sand and gravel

- Asphalt (AS)

DEB = Debris
BR = Brick
MTL = Metal
CONC = Concrete
AB = Aggregate Base
AS = Asphalt
GL = Glass
WD = Wood
FAB = Fabric
RUB = Rubber

3,300 — Concentration of lead in soil. Results in milligrams per kilogram (mg/kg).

ND(12) — Not detected at or above the indicated laboratory reporting limit.

5 — Vertical Scale in Feet
0

0 — 50 — Horizontal Scale in Feet

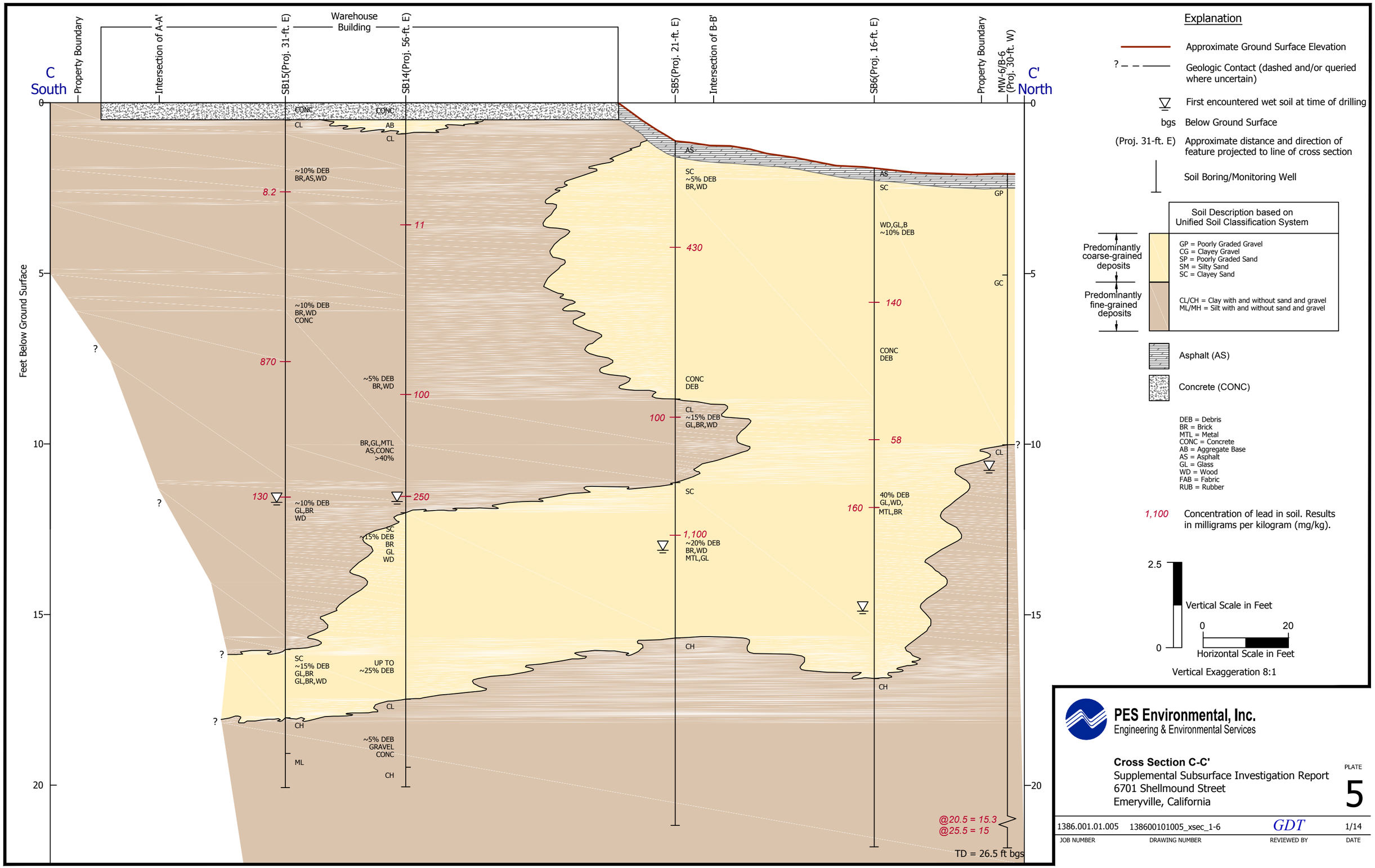
Vertical Exaggeration 10:1

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Cross Section B-B'
Supplemental Subsurface Investigation Report
6701 Shellmound Street
Emeryville, California

PLATE
4

1386.001.01.005	138600101005_xsec_1-6	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Explanation

- Approximate Ground Surface Elevation
- Geologic Contact (dashed and/or queried where uncertain)
- First encountered wet soil at time of drilling
- bgs — Below Ground Surface
- (Proj. 31-ft. E) — Approximate distance and direction of feature projected to line of cross section
- Soil Boring/Monitoring Well

Soil Description based on Unified Soil Classification System

Predominantly coarse-grained deposits:
GP = Poorly Graded Gravel
CG = Clayey Gravel
SP = Poorly Graded Sand
SM = Silty Sand
SC = Clayey Sand

Predominantly fine-grained deposits:
CL/CH = Clay with and without sand and gravel
ML/MH = Silt with and without sand and gravel

- Asphalt (AS)
- Concrete (CONC)

DEB = Debris
BR = Brick
MTL = Metal
CONC = Concrete
AB = Aggregate Base
AS = Asphalt
GL = Glass
WD = Wood
FAB = Fabric
RUB = Rubber

1,100 — Concentration of lead in soil. Results in milligrams per kilogram (mg/kg).

2.5
0
Vertical Scale in Feet
0
20
Horizontal Scale in Feet

Vertical Exaggeration 8:1

PES Environmental, Inc.
Engineering & Environmental Services

Cross Section C-C'
Supplemental Subsurface Investigation Report
6701 Shellmound Street
Emeryville, California

PLATE 5

1386.001.01.005	138600101005_xsec_1-6	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

D South

D' North

Property Boundary | Intersection of A-A' | Warehouse Building | SB18(Proj. 11-ft. E) | SB17(Proj. 66-ft. E) | PB-1(Proj. 19-ft. W) | Intersection of B-B' | MW-8/B-8 (Proj. 7-ft. W) | MW-1/B-1 (Proj. 12-ft. E) | B-2(Proj. 3-ft. E) | SB8(Proj. 20-ft. W) | SB7(Proj. 22-ft. E) | B-2(Proj.17-ft. E) | Property Boundary

Feet Below Ground Surface

0 | 5 | 10 | 15 | 20 | 25 | 30 | 35

CONC | GC | CONC | CL | ~5% DEB AS,BR CONC | ~10% DEB AS,BR | SC ~20% DEB BR,GL MTL,WD | GC | ~10% DEB BR,WD | CH | ~10% DEB BR,GL,MTL WD | ~20% DEB BR,GL,WD | BR | ~15% DEB AS,WD,BR | SC ~10% DEB GL,WD,BR | CL | SP | ML | DEB | CH WD | SP | CL | CONC DEB | SM | CH WD | CL WD | CH | SM | CL/SM WD | CH | WD | CL | AS | AB | AS | SP | GW CONC DEB | SP | GP | CL | SM | SM | GC <5% DEB | SP | CL <5% DEB WD | CH | CL | AS | AS | SC <5% DEB BR GL | SP | GC | CL | AS | GC | MTL | SM GL CONC RUB | CH | CH/CL | CL | CL | TD = 51.5 ft bgs | TD = 40 ft bgs

30 | 54 | 34 | 27 | 650 | 150 | ND(12) | 24 | 61 | 3 | 160 | 77 | 8 | 4.5 | 200 | 3.1 | 3.0 | 120 | 250 | 2.1

Explanation

- Approximate Ground Surface Elevation
- Geologic Contact (dashed and/or queried where uncertain)
- First encountered wet soil at time of drilling
- bgs — Below Ground Surface
- (Proj. 11-ft. E) — Approximate distance and direction of feature projected to line of cross section
- Soil Boring/Monitoring Well
- Asphalt (AS)
- Concrete (CONC)
- 650 — Concentration of lead in soil. Results in milligrams per kilogram (mg/kg).
- ND(12) — Not detected at or above the indicated laboratory reporting limit.

Soil Description based on Unified Soil Classification System

Predominantly coarse-grained deposits:
- GP = Poorly Graded Gravel
- CG = Clayey Gravel
- SP = Poorly Graded Sand
- SM = Silty Sand
- SC = Clayey Sand

Predominantly fine-grained deposits:
- CL/CH = Clay with and without sand and gravel
- ML/MH = Silt with and without sand and gravel

DEB = Debris
BR = Brick
MTL = Metal
CONC = Concrete
AB = Aggregate Base
AS = Asphalt
GL = Glass
WD = Wood
FAB = Fabric
RUB = Rubber

5 — Vertical Scale in Feet — 0

0 — 20 — Horizontal Scale in Feet

Vertical Exaggeration 10:1

PES Environmental, Inc.
Engineering & Environmental Services

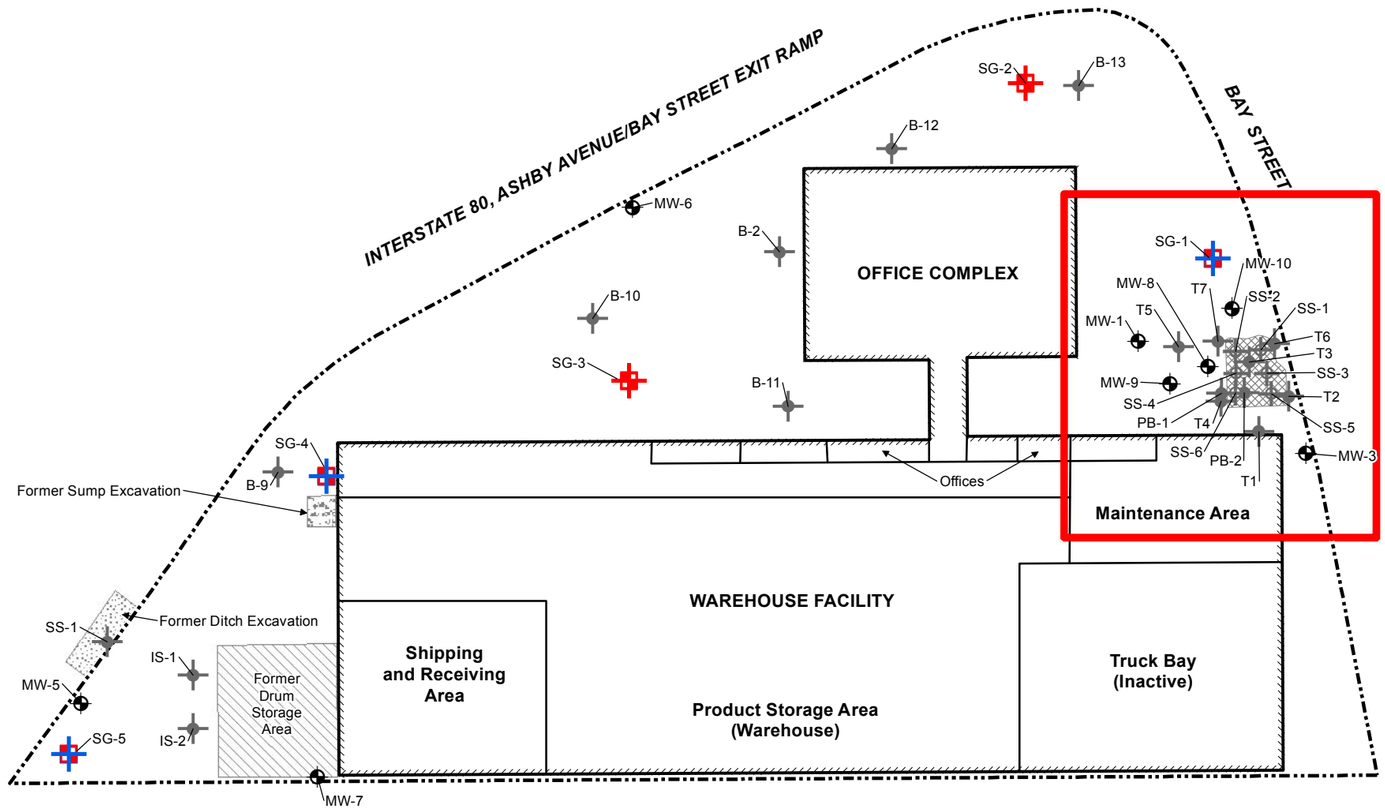
Cross Section D-D'
Supplemental Subsurface Investigation Report
6701 Shellmound Street
Emeryville, California

PLATE 6

1386.001.01.005	138600101005_xsec_1-6	GDT	1/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

APPENDIX A

PERTINENT DATA FROM ENVIRON'S APRIL 2013 INVESTIGATION



Legend

- Soil, Soil Gas and Groundwater Sampling Location
- Soil Gas and Soil Sampling Location
- Monitoring Well
- Historical Test Boring
- Historical Confirmation Sample from Tank Excavation
- Wall
- Building
- Property Line
- Approximate Extent of Previous Tank Excavation

Note: Interior building dimensions are approximate.

N

0 50 100

SCALE IN FEET

ENVIRON

Soil, Soil Gas, and Groundwater Sampling Locations
6707 Bay Street
Emeryville, California

Date:	Contract Number:		Figure
4/29/13	03-32356A		3
Drafter: RS	Approved:	Revised:	

Path: Q:\DRAWINGS\03323356A\03323356A-PropSoilSampLocation.mxd

Tables

Table 1 - Organics in Soil
2013 Subsurface Investigation by ENVIRON
Nady Systems

Borehole ID	Sample Depth	TPH (mg/kg)		Pesticides and PCBs (mg/kg)		
		TPH-Diesel	TPH-Motor Oil	DDT	Arochlor 1260	Total PCBs
SG-1	3.5-4.0	**43**	**250**	**0.03**	ND < 0.5	ND < 0.5
SG-2	3.0-3.5	**43**	**340**	**0.068**	ND < 1.0	ND < 1.0
SG-3	3.5-4.0	**290**	**1,400**	**0.25**	**14**	**14**
SG-4	3.5-4.0	**200**	**400**	**0.42**	**8**	**8**
SG-5	4.5-5.0	**33**	**290**	ND < 0.020	ND < 1.0	ND < 1.0
CHHSL - Residential [1]		*na*	*na*	*1.6*	*0.089*	*0.089*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource [2]		*100*	*500*	*1.7*	*0.22*	*0.22*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
CHHSL: California Human Health Screening Level
DDT: dichlorodiphenyltrichloroethane
ESL: Environmental Screening Level
mg/kg: milligrams per kilogram
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
NDW: Non-Drinking Water Resource Area
PCBs: Polychlorinated Biphenyls
TPH: Total Petroleum Hydrocarbons
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table 2 - Metals in Soil
2013 Subsurface Investigation by ENVIRON
Nady Systems

Borehole ID	Sample Depths	Metals (mg/kg, except where noted)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Lead - STLC (mg/L)	Lead - TCLP (mg/L)	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
SG-1	3.5-4.0	**5.2**	**11**	**280**	ND < 0.5	**1**	**100**	**22**	**480**	**990**	**12**	ND<0.2	**0.2**	**4.2**	**220**	**0.6**	**60**	**490**
SG-2	3.0-3.5	**1.9**	**12**	**160**	**0.51**	**0.84**	**50**	**11**	**88**	**120**	**4**	ND<0.2	**0.36**	**1.3**	**63**	ND < 0.5	**50**	**220**
SG-3	3.5-4.0	**8.9**	**7.3**	**230**	ND < 0.5	**0.94**	**54**	**9.3**	**160**	**830**	--	--	**0.2**	**1.3**	**51**	ND < 0.5	**49**	**240**
SG-4	3.5-4.0	**2.6**	**6.9**	**170**	ND < 0.5	**0.82**	**68**	**14**	**78**	**130**	--	--	**0.32**	**2.9**	**83**	ND < 0.5	**45**	**440**
SG-5	4.5-5.0	**1**	**9.9**	**120**	ND < 0.5	**0.44**	**44**	**7.3**	**44**	**75**	--	--	**0.12**	**0.5**	**34**	ND < 0.5	**41**	**97**
CHHSL - Residential [1]		*30*	*0.07*	*5,200*	*150*	*1.7*	*10,000*	*660*	*3,000*	*150*	*N/A*	*N/A*	*18*	*380*	*1,600*	*380*	*530*	*23,000*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource [2]		*20*	*0.39*	*750*	*4*	*12*	*750*	*0.33*	*230*	*80*	*N/A*	*N/A*	*6.7*	*40*	*150*	*20*	*200*	*600*

Notes:
exceeds regulatory criteria
exceeds California hazardous waste criteria
Only detected compounds are shown.
Detections are in **bold**.
mg/kg: milligrams per kilogram
mg/L: milligrams per liter
N/A: Not Applicable
--: not analyzed
ND < ##: Not detected at or above laboratory reporting limit shown
CHHSL: California Human Health Screening Level
ESL: Environmental Screening Level
NDW: Non-Drinking Water Resource Area
STLC: Soluble Threshold Limit Concentration
TCLP: Toxicity Characteristic Leaching Procedure
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table 3 - Organics in Groundwater
2013 Subsurface Investigation by ENVIRON
Nady Systems

Location ID	Depth to Water (ft bgs)	Observations	TPH (ug/L)		VOCs (ug/L)															
			TPH-Diesel	TPH-Motor Oil	Benzene	TBA	n-Butyl Benzene	sec-Butyl Benzene	Carbon disulfide	Chloro-benzene	Ethyl-benzene	cis-1,2-DCE	Isopropyl-benzene	4-isopropyl toluene	Naph-thalene	n-Propyl benzene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
SG-1	10.75	Gray color, no odor	920	5,600	ND < 0.5	ND < 2.0	ND < 0.5	ND < 0.5	**1.1**	**4.4**	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5
SG-4	11.75	Black color, strong H2S odor	4,700	12,000	**2**	**2.3**	ND < 0.5	**1.3**	**3.9**	ND < 0.5	ND < 0.5	**0.69**	**1.1**	ND < 0.5	ND < 0.5	ND < 0.5	**0.54**	ND < 0.5	ND < 0.5	ND < 0.5
SG-5	10.29	Black color, sheen, H2S odor	58,000	9,500	**8.1**	ND < 20	**32**	**38**	ND < 5.0	ND < 5.0	**45**	ND < 5.0	**67**	**13**	**84**	**87**	ND < 5.0	**350**	**24**	**59**
California MCL - Drinking Water[1]			*na*	*na*	*1*	*na*	*na*	*na*	*na*	*100**	*300*	*6*	*na*	*na*	*na*	*na*	*150*	*na*	*na*	*1,750*
ESL - Groundwater[2]			*100*	*100*	*1*	*12*	*na*	*na*	*na*	*25*	*30*	*6*	*na*	*na*	*6.2*	*na*	*40*	*na*	*na*	*20*
ESL - Evaluation of Potential Vapor Intrusion Concerns, Residential[2]			*na*	*na*	*27*	*na*	*na*	*na*	*na*	*na*	*310*	*na*	*na*	*na*	*160*	*na*	*95,000*	*na*	*na*	*37,000*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
bgs: below ground surface
DCE: dichloroethene
ESL: Environmental Screening Level
H2S: hydrogen sulfide
ug/L: micrograms per liter
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
NDW: Non-Drinking Water Resource Area
TBA: t-Butyl alcohol
TPH: Total Petroleum Hydrocarbons
VOCs: Volatile Organic Compounds
1. California Department of Public Health, 2013. *California Maximum Contaminant Levels (MCLs)*. March.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)*. February.
*: indicates USEPA MCL, shown for compounds that have a federal MCL but do not have a California MCL.

Table 4 - Metals in Groundwater
2013 Subsurface Investigation by ENVIRON
Nady Systems

Location ID	Depth to Water (ft bgs)	Observations	Total Metals (ug/L)													
			Antimony	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
SG-1	10.75	Gray color, no odor	ND < 50	**210**	**12,000**	ND < 25	**4,100**	**820**	**4,200**	**2,700**	**2.7**	**77**	**4,600**	ND < 19	**2,100**	**5,900**
SG-4	11.75	Black color, strong H2S odor	**150**	**650**	**23,000**	**210**	**1,400**	**210**	**8,300**	**26,000**	**130**	**270**	**1,600**	**19**	**480**	**78,000**
SG-5	10.29	Black color, sheen, H2S odor	**94**	**1,600**	**25,000**	**320**	**1,800**	**490**	**34,000**	**60,000**	**52**	**180**	**2,700**	**53**	**1,900**	**160,000**
California MCL - Drinking Water[1]			*6*	*10*	*1,000*	*5*	*50*	*na*	*1,300*	*15*	*2*	*na*	*100*	*na*	*na*	*na*
ESL - Groundwater[2]			*6*	*36*	*1,000*	*0.25*	*50*	*3*	*3.1*	*2.5*	*0.025*	*180*	*8.2*	*0.19*	*15*	*81.0*
STLC - California Hazardous Waste Criteria			*15,000*	*5,000*	*100,000*	*1,000*	*5,000*	*80,000*	*25,000*	*5,000*	*200*	*350,000*	*20,000*	*5,000*	*24,000*	*250,000*

Notes:
exceeds regulatory criteria
exceeds hazardous waste and regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
bgs: below ground surface
ug/L: micrograms per liter
H2S: hydrogen sulfide
na: not available
ND < ##: Not detected at or above laboratory reporting limit shown
STLC: Soluble Threshold Limit Concentration
1. California Department of Public Health, 2013. *California Maximum Contaminant Levels (MCLs)*. March.
2. San Francisco Bay Regional Water Quality Control Board, 2013. *2013 Tier 1 ESL Lookup Tables*. February.

Table 5 - VOCs and Fixed Gases in Soil Gas
2013 Subsurface Investigation by ENVIRON
Nady Systems

		VOCs (ug/m^3)															Fixed Gases (% by volume)			
Location ID	**Depth to Water (ft bgs)**	**Acetone**	**Benzene**	**Chloro-methane**	**Ethyl-benzene**	**4-Ethyl-toluene**	**2-Butanone (MEK)**	**PCE**	**TCE**	**Toluene**	**1,2,4-Trimethyl-benzene**	**1,3,5-Trimethyl-benzene**	**cis-1,2-DCE**	**o-Xylene**	**p/m-Xylene**	**1,1-DFA (Leak Check)**	**Methane**	**Carbon Dioxide**	**Oxygen and Argon**	**Nitrogen**
SG-1	10.75	ND < 7.2	**8.6**	ND < 1.6	ND < 3.3	ND < 3.7	ND < 6.7	ND < 5.2	ND < 4.1	**3.4**	ND < 11	ND < 3.7	ND < 3.0	ND < 3.3	ND < 13	ND < 8.2	ND < 0.5	**8.49**	**8.9**	**82.6**
SG-2	--	ND < 13	ND < 4.5	ND < 2.9	ND < 6.1	**13**	ND < 12	ND < 9.6	ND < 7.6	ND < 5.3	**37**	**16**	ND < 5.6	ND < 6.1	ND < 24	ND < 15	ND < 0.5	**10.7**	**12**	**77.2**
SG-3	--	ND < 38	**73**	ND < 8.3	ND < 17	ND < 20	ND < 35	**30**	ND < 21	**18**	ND < 59	ND < 20	**24**	ND < 17	ND < 69	**140**	**0.864**	ND < 0.5	**19.9**	**79.3**
SG-4	11.75	**19**	**37**	**2.4**	**4.6**	ND < 3.6	**7.7**	ND < 4.9	**9.6**	**16**	ND < 11	ND < 3.6	ND < 2.9	**5.8**	**16**	ND < 7.8	ND < 0.5	**9.52**	**11.4**	**79.1**
SG-5	10.29	**19**	**9.5**	ND < 1.7	**6.2**	ND < 4.0	ND < 7.3	ND < 5.6	**9.1**	**6.1**	ND < 12	ND < 4.0	ND < 3.3	**12**	**26**	ND < 8.9	ND < 0.5	**8.5**	**13.6**	**77.9**
SG-2-Shroud	N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**130,000**	--	--	--	--
Shallow Soil Gas CHHSL - Residential [1]		*na*	*36.2*	*na*	*na*	*na*	*na*	*180*	*528*	*135,000*	*na*	*na*	*15,900*	*315,000*	*317,000*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*

Notes:
exceeds regulatory criteria
Only detected compounds are shown.
Detections are in **bold**.
na: not available
N/A: not applicable
ND < ##: Not detected at or above laboratory reporting limit shown
--: not analyzed
bgs: below ground surface
CHHSL: California Human Health Screening Level
DCE: dichloroethene
DFA: difluoroethane
PCE: tetrachloroethene
TCE: trichloroethene
ug/m^3: micrograms per cubic meter
1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* . January.

Appendix D.4

Historical Environmental Sampling Data

Table D4-1 - Historical Total Petroleum Hydrocarbons (TPH) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	TPH (mg/kg)		
				Oil & Grease	TEPH	Total VOCs
IS-1	4/26/1989	Drum Area	3.5	**1,915**	**46**	ND<10
			7	**3,390**	**200**	ND<10
			10	**36,535**	ND<10	ND<10
IS-2	4/26/1989	Drum Area	3	**1,305**	**50**	ND<10
			8.5	**2,185**	ND<10	**300**
B-1/MW-1	7/5/1989	West of Tanks	5.5	**845**	**12**	ND<10
			10.5	ND<50	ND<10	ND<10
			16	**1,600**	**63**	ND<10
			20.5	**80**	ND<10	ND<10
			25.5	**95**	ND<10	ND<10
			30.5	ND<50	ND<10	ND<10
B-2	7/5/1989	West of office	0.5	ND<50	ND<10	ND<10
			6	**1,160**	**19**	ND<10
			10	**14,900**	**172**	**20**
			16	ND<50	ND<10	ND<10
B-3/MW-3	8/28/1989	SE of Tanks	5	**1,845**	**30**	ND<10
			12	**95**	**20**	ND<10
			15	**625**	**260**	**120**
			20	ND<20	ND<10	ND<10
			25	**20**	ND<10	ND<10
B-4	8/28/1989	Location unknown	4.5	**6,685**	ND<10	ND<10
			10	**25,470**	**170**	ND<10
			14.5	ND<20	ND<10	ND<10
B-5/MW-5	8/31/1989	At trench and drum area	6	**330**	ND<10	ND<10
			11	**3,580**	**15**	**25**
			15.5	**1,200**	**15**	**20**
			22.5	**110**	**20**	ND<10
			25.5	**115**	ND<10	ND<10
B-6/MW-6	8/31/1989	NW site boundary	20.5	**100**	ND<10	ND<10
			25.5	**190**	ND<10	ND<10
SS-1-E	10/5/1989	UST Confirmation	2' Beneath UST	--	**12**	**12**
SS-2-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**11**	ND<10
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	--	ND<10	ND<10
SS-4-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**60**	**240**
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	--	**35**	**115**
SS-6-W	10/5/1989	UST Confirmation	2' Beneath UST	--	**700**	**460**
B-7/MW-7	1/3/1990	Drum Area	4	**9,000**	ND<10	ND<10
			9	**8,800**	**788**	ND<10
B-8/MW-8	1/3/1990	Downgradient of USTs	4	**2,000**	ND<10	ND<10
			9	**20,000**	ND<10	ND<10
B-9	1/4/1990	At sump	4	**23,000**	ND<10	ND<10
			9	**15,000**	**5,050**	ND<10
B-10	1/4/1990	NW part of site	4	**9,500**	**380**	ND<10
			9	**6,300**	ND<10	ND<10
B-11	1/4/1990	Between office and warehouse	4	**45,000**	ND<10	ND<10
			9	**30,400**	ND<10	ND<10
B-12	1/4/1990	N of office	4	**12,000**	ND<10	ND<10
			9	**38,800**	ND<10	ND<10
B-13	1/4/1990	N part of site	4	**9,400**	ND<10	ND<10
			9	**3,000**	ND<10	ND<10
Sump	1/5/1990	Sump Excavation	Confirmation	**10,500**	ND<10	ND<10
MW-9	4/13/1994	W of Tank Excavation	8.5	--	ND<1	--
			15.5	**470**	--	--
MW-10	4/14/1994	N of Tank Excavation	9.5	--		
			15.5	**9,400**	**7,300**	**2**
T-1	4/13/1994	S of tank excavation	8	--	--	--
			14	--	**96**	ND<1
T-2	4/13/1994	SE tank excavation	6	**160**	**40**	--
			8.5	--	--	ND<1
T-3	4/13/1994	Bottom tank excavation	8	--	--	ND<1
			14.5	--	--	--
T-4	4/14/1994	SW tank excavation	9	--	--	ND<1
			14.5	--	--	--
T-5	4/14/1994	W of tank excavation	5	**710**	ND<10	ND<1
			9	ND<50	ND<1	ND<1
			14.5	--	--	--
T-7	4/14/1994	NW tank excavation	7.5	**68**	ND<10	ND<1
			14	--	ND<20	160
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [1]				*500*	*100*	*na*

Notes:
exceeds regulatory criteria
Only locations with detected TPH and/or Total VOC data are shown.
mg/kg: milligrams per kilogram
na: not available
ND<##: Not detected at or above laboratory reporting limit shown.
TEPH: Total Extractable Petroleum Hydrocarbons
TPH: Total Petroleum Hydrocarbons
VOCs: Volatile Organic Compounds
UST: Underground storage tank
1. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table D4-2 - Historical Volatile OrganicCompound (VOC) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths (ft bgs)	VOCs (ug/kg)											
				Acetone	Benzene	Ethylbenzene	Toluene	Total Xylenes	MIBK	1,2-DCB	1,3-DCB	1,4-DCB	MEK	Carbon Disulfide	Methylene Chloride
SS-1-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<200,000	**1,300**	**40**	NR	**300**	**600,000**	ND<30	**120**	**260**	ND<200,000	ND<80,000	ND<30
SS-2-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<20	**230**	**30**	**60**	**50**	**20**	ND<30	ND<30	ND<30	ND<20	ND<3	ND<30
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	**40**	ND<30	ND<30	**50**	**35**	ND<20	ND<30	ND<30	ND<30	ND<20	ND<3	ND<30
SS-4-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<2,000,000	**1,400**	110	NR	**1,100**	**3,300,000**	**70**	**2,000**	**2,400**	ND<2,000,000	ND<800,000	ND<30
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<400,000	ND<300	ND<300	NR	**1,000**	**180,000**	ND<30	ND<30	ND<30	ND<40,000	ND<20,000	ND<30
SS-6-W	10/5/1989	UST Confirmation	2' Beneath UST	ND<2,000,000	**4,600**	ND<1,500	NR	**7,500**	**5,000,000**	ND<30	ND<30	ND<30	ND<2,000,000	ND<800,000	ND<30
B-7/MW-7	1/3/1990	Drum Area	4	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<10	**250**	**61**	**1,020**	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<100	ND<100	ND<100	ND<100	**8,300**	ND<100	ND<100	ND<100	ND<500	ND<100	ND<50
B-9	1/4/1990	At sump	4	ND<50	ND<10	ND<10	**12**	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	**54**	**140**	**26**	**380**	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
B-11	1/4/1990	Between office and warehouse	4	ND<50	ND<10	ND<10	**15**	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
			9	ND<50	ND<10	ND<10	ND<10	ND<10	ND<30	ND<10	ND<10	ND<10	ND<50	ND<10	ND<50
PB-1	9/5/1991	Soil Boring in tank area	6	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	**2**	ND<5	ND<20	ND<5	ND<5
			8.5	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	**3**	**4**	ND<5	ND<20	ND<5	ND<5
PB-2	9/5/1991	Soil Boring in tank area	5.5	ND<20	ND<5	ND<5	ND<5	ND<5	ND<10	ND<5	ND<5	ND<5	ND<20	ND<5	ND<5
			8	ND<20	**5**	ND<5	ND<5	ND<5	ND<10	**4**	**4**	ND<5	ND<20	ND<5	ND<5
MW-9	4/13/1994	W of Tank Excavation	8.5	**70**	ND<5	ND<5	ND<5	ND<5	**6**	NR	NR	NR	**10**	ND<5	ND<10
			15.5	**140**	**4**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
MW-10	4/14/1994	N of Tank Excavation	9.5	**30**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	ND<10	ND<5	ND<10
			15.5	**320**	ND<10	ND<10	ND<10	ND<10	**11**	NR	NR	NR	**120**	**20**	**40**
T-2	4/13/1994	SE tank excavation	6	--	--	--	--	--	--	--	--	--	--	--	--
			8.5	**110**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
T-3	4/13/1994	Bottom tank excavation	8	**70**	**4**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**10**	ND<5	ND<10
			14.5	**100**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**20**	ND<5	ND<10
T-4	4/14/1994	SW tank excavation	9	**50**	ND<5	ND<5	ND<5	ND<5	**10**	NR	NR	NR	**8**	**4**	ND<10
			14.5	**160**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**40**	ND<5	ND<10
T-5	4/14/1994	W of tank excavation	5	--	--	--	--	--	--	--	--	--	--	--	--
			9	**20**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	ND<10	ND<5	ND<10
			14.5	ND<20	**12**	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**10**	ND<5	ND<10
T-6	4/14/1994	NE tank excavation	7.5	**100**	ND<5	ND<5	ND<5	ND<5	**6**	NR	NR	NR	**10**	ND<5	ND<10
			14	ND<100	ND<30	ND<30	ND<30	ND<30	ND<50	NR	NR	NR	ND<50	ND<30	ND<50
T-7	4/14/1994	NW tank excavation	7.5	**30**	ND<5	ND<5	ND<5	ND<5	ND<10	NR	NR	NR	**9**	ND<5	ND<10
			14	ND<1,000	ND<1,000	**600**	ND<300	ND<300	**500**	NR	NR	NR	ND<500	ND<300	ND<500
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [1]				*500*	*44*	*2,900*	*2,900*	*2,300*	*2,800*	*1,100*	*7,400*	*590*	*6,500*	*na*	*77*

Notes:
exceeds regulatory criteria
Only locations with detected VOCs are shown.
Only detected compounds are shown.
ug/kg: micrograms per kilogram
bgs: below ground surface
DCB: dichlorobenzene
MEK: Methyl ethyl ketone
MIBK: Methyl isobutyl ketone
na: not available
ND<##: Not detected at or above laboratory reporting limit shown
TCA: trichloroethane
TCE: trichloroethene
UST: Underground storage tank
1. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table D4-3 - Historical Semi-Volatile Organic Compound (SVOC) Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	SVOCs (ug/kg)														
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(k) fluoranthene	Chrysene	Fluor-anthene	Isophor-one	2-Methyl naphthal-ene	Naphthal-ene	Nitro-benzene	Phen-anthrene	Pyrene	Bis (2-ethylhexyl) phthalate	4-Methyl phenol	1,2,4-TCB
SS-3-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<30	ND<30	ND<30	ND<70	ND<30	ND<30	ND<30	ND<30	ND<30	ND<30	ND<30	ND<300	**200**	**200**
SS-5-E	10/5/1989	UST Confirmation	2' Beneath UST	ND<200	ND<200	ND<200	ND<400	ND<200	ND<200	**1,000**	**300**	ND<200	ND<200	ND<200	ND<2,000	ND<200	ND<200
B-7/MW-7	1/3/1990	Drum Area	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	**390**	**320**	ND<300	**1,500**	**750**	ND<300	**530**	**380**	ND<2,000	ND<300	ND<300
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**410**	ND<2,000	ND<300	ND<300
B-9	1/4/1990	At sump	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	**690**	**340**	ND<300	**1,100**	**8,900**	ND<300	**590**	**550**	ND<2,000	ND<300	ND<300
B-11	1/4/1990	Between office and warehouse	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**320**	ND<2,000	ND<300	ND<300
			9	**580**	ND<300	ND<300	**820**	**1,100**	ND<300	ND<300	ND<300	ND<300	**560**	**1,800**	ND<2,000	ND<300	ND<300
B-12	1/4/1990	N of office	4	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**370**	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
B-13	1/4/1990	N part of site	4	ND<300	**470**	ND<300	**390**	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**920**	ND<2,000	ND<300	ND<300
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<2,000	ND<300	ND<300
MW-9	4/13/1994	W of Tank Excavation	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**400**	ND<300	ND<300
T-2	4/13/1994	SE tank excavation	6	ND<300	ND<300	**200**	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300
			8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-5	4/14/1994	W of tank excavation	5	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000	ND<3,000
			9	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	ND<300	**400**	ND<300	ND<300
			14.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHHSL - Residential [1]				*na*	*38*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*	*na*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [2]				*380*	*38*	*380*	*3,800*	*40,000*	*na*	*250*	*1,700*	*na*	*11,000*	*85,000*	*160,000*	*na*	*7,600*

Notes:
exceeds regulatory criteria
Only locations with detected SVOCs are shown.
Only detected compounds are shown.
na: not available
ND<##: Not detected at or above laboratory reporting limit shown
SVOCs: Semivolatile Organic Compounds
TCB: trichlorobenzene
ug/kg: micrograms per kilogram
UST: Underground storage tank

1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties (Revised 2009)* . January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)* . February.

Table D4-4 - Historical Metals Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths (ft bgs)	Metals (mg/kg)														
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
IS-1	4/26/1989	Drum Area	3.5	6.5	ND<2.2	110	0.05	4.1	20.1	5.6	70	100	ND<5	1.2	32.1	15.2	15.4	200
			7	1.4	ND<2.2	130	ND<0.025	4.2	21.5	6.4	104	130	ND<5	ND<1	31.5	ND<0.1	17.3	48.9
			10	1.6	ND<2.2	255	ND<0.025	10.2	63.5	11.4	1,042	4,300	ND<5	3.7	42.6	ND<0.1	17.3	5,400
IS-2	4/26/1989	Drum Area	3	ND<1	ND<2.2	90	ND<0.025	3.2	18.5	6	56.7	90	ND<5	1.2	30.9	ND<0.1	15.6	270
			8.5	ND<1	ND<2.2	35.7	ND<0.025	1.5	6.6	2.8	13.8	5.3	ND<5	ND<1	15.5	ND<0.1	6.7	22.9
B-1/MW-1	7/5/1989	West of Tanks	5.5	ND<1	ND<2.2	92	ND<0.025	1.4	13	5.7	28	61	ND<5	ND<1	14	ND<0.1	15	94
			10.5	ND<1	ND<2.2	21	ND<0.025	0.6	12.5	2.6	4	3	ND<5	ND<1	12.7	ND<0.1	7	5.4
			16	4	ND<2.2	78	ND<0.025	12	42	12.4	15.3	160	ND<5	2.4	30	ND<0.1	32	6,040
			20.5	ND<1	ND<2.2	61	ND<0.025	2.4	15	4.5	23	77	ND<5	ND<1	19	ND<0.1	12	106
			25.5	ND<1	ND<2.2	67	ND<0.025	2	10	8	13	8	ND<5	ND<1	24	ND<0.1	12	27
			30.5	ND<1	ND<2.2	23	ND<0.025	1.2	9.9	3.6	7.4	4.5	ND<5	ND<1	22	ND<0.1	6.7	15
B-2	7/5/1989	West of office	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			6	1.2	ND<2.2	109	ND<0.025	1.6	11.8	5	92	167	ND<5	ND<1	18.5	ND<0.1	9.7	67
			10	ND<1	ND<2.2	41	ND<0.025	ND<0.3	12.7	2.7	22.5	1,360	ND<5	ND<1	12.5	ND<0.1	13	532
			16	1.2	ND<2.2	95	ND<0.025	2.4	43	12	10	11	ND<5	ND<1	79	ND<0.1	10	23
			20.5	ND<1	ND<2.2	35	ND<0.025	1.4	7.8	1.9	9	8.7	ND<5	ND<1	16.6	ND<0.1	17	11
B-5/MW-5	8/31/1989	At trench and drum area	6	ND<1	ND<2.2	29.2	ND<0.025	0.5	13.5	3.4	13.3	9.7	ND<5	ND<1	18	ND<0.1	12	52
			11	1.05	ND<2.2	167.1	ND<0.025	2.15	15.2	8.7	64	164	ND<5	ND<1	22	ND<0.1	23.4	200
			15.5	3.85	ND<2.2	661	ND<0.025	4.5	22.4	8.2	200	1,270	ND<5	ND<1	26.8	ND<0.1	20	1420
			22.5	ND<1	ND<2.2	1,150	ND<0.025	3.8	19	40	44.2	24	ND<5	ND<1	151	ND<0.1	58.3	58.6
			25.5	ND<1	ND<2.2	158	ND<0.025	3.1	21	12.3	22.6	12	ND<5	ND<1	54	ND<0.1	31	42
B-6/MW-6	8/31/1989	NW site boundary	20.5	ND<1	ND<2.2	250	ND<0.025	3.5	23	19	22.5	15.3	ND<5	ND<1	48	ND<0.1	53	47
			25.5	ND<1	ND<2.2	56.5	ND<0.025	3.3	25	11	22	15	ND<5	ND<1	54	ND<0.1	25	42.6
B-7/MW-7	1/3/1990	Drum Area	4	ND<10	ND<16	140	0.48	ND<0.7	32	8.6	27	ND<12	ND<0.09	ND<1	28	ND<0.4	36	79
			9	ND<10	ND<16	24	0.13	ND<0.7	21	ND<2	3.6	ND<12	0.088	ND<1	16	ND<0.4	12	310
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<10	ND<16	42	0.16	ND<0.7	27	2.8	18	ND<12	ND<0.009	ND<1	18	ND<0.4	15	75
			9	ND<10	ND<16	85	0.15	ND<0.7	9.6	ND<2	41	24	0.36	ND<1	6.8	ND<0.4	8.5	120
B-9	1/4/1990	At sump	4	ND<10	ND<16	140	0.41	ND<0.7	33	7.4	55	41	0.45	ND<1	32	ND<0.4	31	120
			9	ND<16	ND<16	610	0.31	44	180	15	2,300	980	0.66	27	350	ND<0.4	26	6,200
B-10	1/4/1990	NW part of site	4	ND<10	ND<16	33	0.05	ND<0.7	23	ND<2	39	42	0.1	ND<1	10	ND<0.4	5	95
			9	ND<16	21	590	0.33	1.3	34	6.9	140	1,500	0.62	ND<1	24	ND<0.4	28	410
B-11	1/4/1990	tween office and wareho	4	ND<10	ND<16	240	0.36	1	22	5.4	44	72	0.092	ND<1	25	ND<0.4	21	940
			9	ND<10	ND<16	160	0.31	0.7	21	3.6	ND<4,500	55	0.012	ND<1	24	ND<0.4	17	160
B-12	1/4/1990	N of office	4	ND<10	ND<16	89	0.23	ND<0.7	36	3.4	170	120	ND<0.009	ND<1	29	ND<0.4	21	150
			9	ND<28	38	540	0.26	7.7	190	28	2,200	3,000	ND<0.009	20	110	ND<0.4	23	3,600
B-13	1/4/1990	N part of site	4	ND<10	ND<16	160	0.36	ND<0.7	62	6.5	120	520	ND<0.009	ND<1	42	ND<0.4	27	300
			9	ND<10	ND<16	37	0.15	ND<0.7	29	2.9	4.9	12	ND<0.009	ND<1	18	ND<0.4	15	210
Sump	1/5/1990	Sump Excavation	Confirmation	ND<10	ND<16	180	0.48	ND<0.7	95	10	49	62	0.022	ND<1	135	ND<0.4	39	150
MW-9	4/13/1994	W of Tank Excavation	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	ND<3	4.2	190	0.43	ND<0.25	26	12	30	19	ND<0.083	ND<1	36	ND<0.5	27	61
MW-10	4/14/1994	N of Tank Excavation	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
			15.5	4.4	19	140	0.21	3.3	59	10	330	250	0.77	3.1	37	1.1	24	530
T-2	4/13/1994	SE tank excavation	6	5.1	9.3	170	0.23	1	25	8.7	2,100	330	ND<0.087	1.5	55	0.5	26	580
			8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-5	4/14/1994	W of tank excavation	5	ND<2.9	6	130	0.31	0.27	25	9.2	60	61	0.21	ND<0.98	28	ND<0.49	26	88
			9	ND<3	ND<2.5	41	ND<0.10	ND<0.25	23	4.2	14	1.5	ND<0.087	ND<1	19	ND<0.5	15	18
			14.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
T-7	4/14/1994	NW tank excavation	7.5	ND<3	4.2	150	0.45	0.28	27	10	40	6.1	ND<0.087	ND<0.99	37	ND<0.5	27	62
			14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHHSL - Residential[1]				*30*	*0.07*	*5,200*	*16*	*1.7*	*100,000*	*660*	*3,000*	*80*	*18*	*380*	*1,600*	*380*	*530*	*23,000*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area[2]				*20*	*0.39*	*750*	*4*	*12*	*750*	*0.33*	*230*	*80*	*6.7*	*40*	*150*	*20*	*200*	*600*

Notes:
exceeds regulatory and California hazardous waste criteria
exceeds regulatory criteria
Only detected compounds are shown.
bgs: below ground surface
mg/kg: milligrams per kilogram
ND<##: Not detected at or above laboratory reporting limit shown

1. California EPA, 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties (Revised 2009)*. January.
2. San Francisco Bay Regional Water Quality Control Board (SF RWQCB), 2013. *2013 Tier 1 Environmental Screening Levels (ESLs)*. February.

Table D4-5- Historical PCBs Data
Nady Systems

Borehole ID	Date	Rationale	Sample Depths	PCBs (mg/kg)	
				Arochlor 1260	Other PCBs
B-7/MW-7	1/3/1990	Drum Area	4	ND<1	ND
			9	ND<1	ND
B-8/MW-8	1/3/1990	Downgradient of USTs	4	ND<1	ND
			9	**2.3**	ND
B-9	1/4/1990	At sump	4	ND<1	ND
			9	ND<1	ND
B-10	1/4/1990	NW part of site	4	ND<1	ND
			9	ND<1	ND
B-11	1/4/1990	Between office and warehouse	4	**2.2**	ND
			9	ND<1	ND
B-12	1/4/1990	N of office	4	ND<1	ND
			9	ND<1	ND
B-13	1/4/1990	N part of site	4	**3.1**	ND
			9	ND<1	ND
Sump	1/5/1990	Sump Excavation	Confirmation	**4.2**	ND
CHHSL - Residential [1]				*0.089*	*0.089*
ESL - Shallow Soil, Residential, Non-Drinking Water Resource Area [2]				*0.22*	*0.22*

Notes:
exceeds regulatory criteria
Only locations with detections are shown.
Only detected compounds are shown.
mg/kg: milligrams per kilogram
ND<##: Not detected at or above laboratory reporting limit shown
PCBs: Polychlorinated biphenyls
UST: Underground storage tank

APPENDIX B

DRILLING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 10/08/2013 By jamesy

Permit Numbers: W2013-0840
Permits Valid from 11/11/2013 to 11/11/2013

Application Id:	1379975457955	**City of Project Site:**	Emeryville
Site Location:	6701 Shellmound Street		
Project Start Date:	10/14/2013	**Completion Date:**	10/14/2013
Assigned Inspector:	Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org		
Extension Start Date:	11/11/2013	**Extension End Date:**	11/11/2013
Extension Count:	1	**Extended By:**	jamesy

Applicant:	PES Environmental, Inc. - Gary Thomas 1682 Novato Boulevard, Suite 100, Novato, CA 94947	**Phone:** 415-899-1600
Property Owner:	Attn. Frederic D. Schrag Nady Systems, Inc. 6701 Shellmound Street, Emeryville, CA 94608	**Phone:** 510-652-2411 x263
Client:	Attn. Jeff White AvalonBay Communities, Inc. 400 Race Street, Suite 200, San Jose, CA 95126	**Phone:** 415-601-9512
Contact:	Gary Thomas	**Phone:** 415-899-1600 **Cell:** 415-250-7217

	Total Due:	$265.00
Receipt Number: WR2013-0385	**Total Amount Paid:**	$265.00
Payer Name : Gary Thomas	Paid By: VISA	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 24 Boreholes
Driller: Cascade Drilling - Lic #: 938110 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2013-0840	10/08/2013	01/12/2014	24	4.50 in.	25.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

5. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory

agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX C

BORING LOGS

GrfcText!USCS CHART 2 12/16/2013 1:47:38 PM

MAJOR DIVISIONS					TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS WITH LESS THAN 15% FINES	GW		WELL-GRADED GRAVELS WITH OR WITHOUT SAND
			GP		POORLY-GRADED GRAVELS WITH OR WITHOUT SAND
		GRAVELS WITH 15% OR MORE FINES	GM		SILTY GRAVELS WITH OR WITHOUT SAND
			GC		CLAYEY GRAVELS WITH OR WITHOUT SAND
	SANDS MORE THAN HALF COARSE FRACTION IS FINER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 15% FINES	SW		WELL-GRADED SANDS WITH OR WITHOUT GRAVEL
			SP		POORLY-GRADED SANDS WITH OR WITHOUT GRAVEL
		SANDS WITH 15% OR MORE FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
			SC		CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		INORGANIC SILTS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			OL		ORGANIC SILTS OR CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH		INORGANIC SILTS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			CH		INORGANIC CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			OH		ORGANIC SILTS OR CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
HIGHLY ORGANIC SOILS			PT		PEAT AND OTHER HIGHLY ORGANIC SOILS

ABBREVIATION KEY

PID (PPM) - Photo Ionization Detector readings in parts per million from headspace soil sample screening.

BLOWS/6" - Blows required to drive sampler 6 inches as indicated on the logs using sample drive hammer weight of 140 pounds falling 30 inches.

5Y 5/2 - Soil Color according to Munsell Soil Color Charts (1994 Revised Edition)

feet MSL - feet above Mean Sea Level

feet BGS - feet below ground surface

SYMBOLS KEY

- No Soil Sample Recovered
- Partial Soil Sample Recovered
- Undisturbed Soil Sample Recovered
- Soil Sample Submitted for Laboratory Analysis
- Hydropunch Sample
- First Encountered Groundwater Level
- Piezometric Groundwater level

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Unified Soil Classification System Chart
6701 Shellmound Street
Emeryville, California

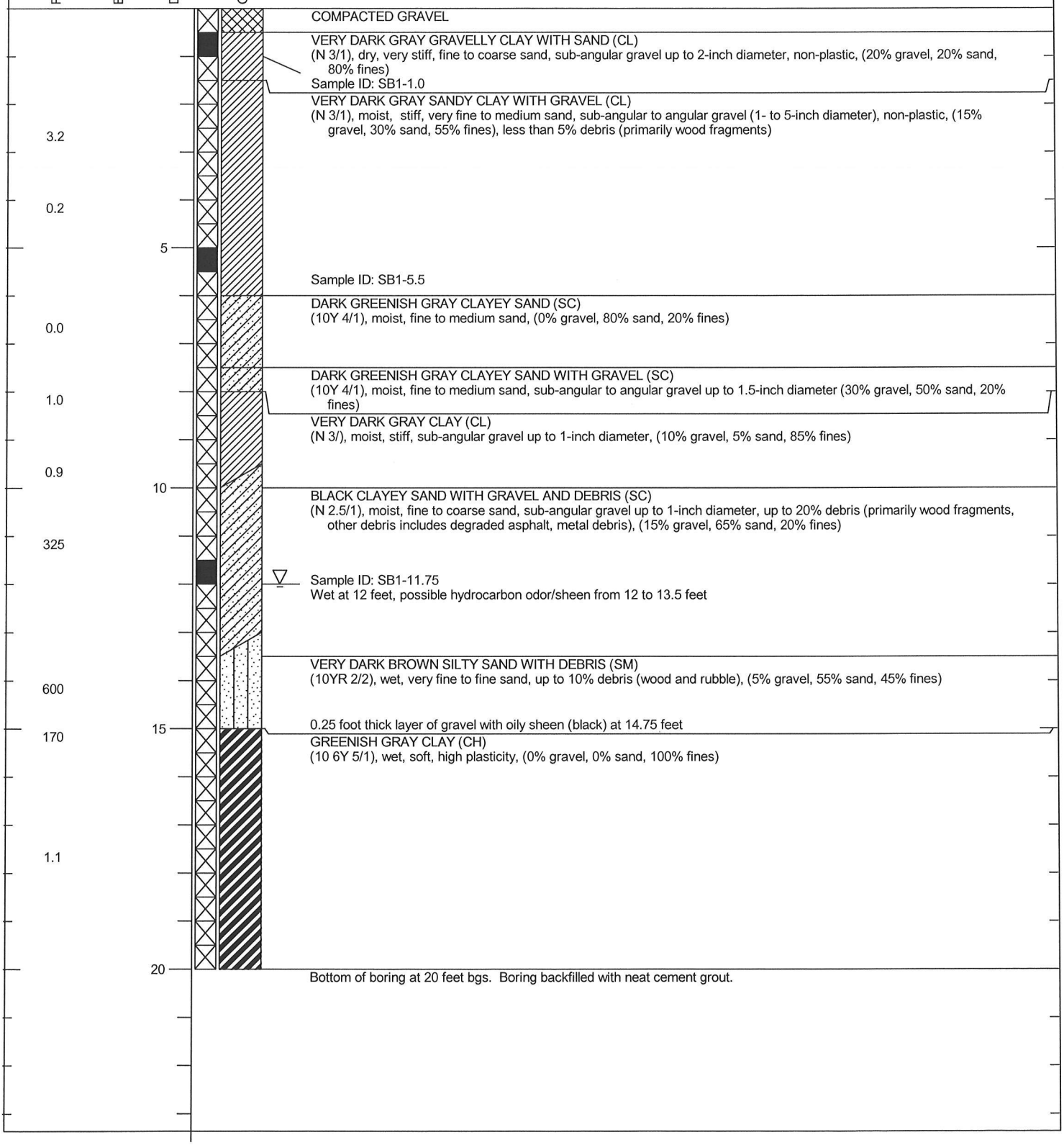
PLATE
C-0

1368.001.01.005	USCS Chart	GDT	12/13
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

PES Environmental, Inc.

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LOG OF BORING SB1



PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/7/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/7/13

PLATE

C-1

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LOG OF BORING SB2

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				OLIVE BROWN SILTY GRAVEL WITH SAND (GM) (2.5Y 4/4), moist, sub-angular to angular gravel up to 1.5-inch diameter, very fine to coarse sand, (60% gravel, 20% sand, 20% fines) Compacted gravel, sub-angular to angular gravel up to 1 in diameter. Very little recovery 0 to 2 feet
2.3				
				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (N3/), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 5% debris (brick fragments), (60% gravel, 20% sand, 20% fines)
1.2				
				Sample ID: SB2-4.0
				3-inch thick layer of concrete-like material at 4.5 feet
		5		
1.2				
				VERY DARK GRAY CLAYEY SAND WITH GRAVEL (SC) (N 3/), moist, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, less than 5% debris (brick fragments), (15% gravel, 45% sand, 40% fines)
1.0				Sample ID: SB2-7.5
				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (N3/), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 10% debris (brick, glass, and asphalt fragments), (20% gravel, 25% sand, 55% fines)
1.1				
		10		
			▽	Sample ID: SB2-10.75
				BLACK CLAYEY SAND WITH GRAVEL AND DEBRIS (SC) (N 2.5/1), wet, fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 25% debris (brick, glass, metal, and wood fragments), (15% gravel, 55% sand, 30% fines) Possible hydrocarbon sheen and odor
115				
96				
		15		
120				VERY DARK GREENISH GRAY CLAY WITH GRAVEL, SAND, AND DEBRIS (CH) (10GY 3/1), wet, medium stiff, gravel, sand, and debris (up to 20%) in Bay mud matrix, debris (wood, glass, and concrete fragments), (15% gravel, 10% sand, 75% fines) Possible hydrocarbon staining/odor
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/7/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/7/13

PLATE
C-2

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LOG OF BORING SB3

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				OLIVE BROWN SILTY SAND WITH GRAVEL (SM) (2.5Y 4/4), dry, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, (40% gravel, 45% sand, 15% fines) Sample ID: SB3-1.5
2.4				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (N 3/), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 5% debris (brick, glass, and wood fragments), (60% gravel, 20% sand, 20% fines) Large (greater than 3-inch diameter) concrete fragments at 2 feet
		5		
				Increase in sand content to (20% gravel, 30% sand, 50% fines) at 6 feet
3.5				Increase in debris content up to 10% (wood, glass, and brick fragments) Sample ID: SB3-7.5
				Decrease in sand and gravel content to (15% gravel, 15% sand, 70% fines) at 9.0 feet
1.5		10		
				Sample ID: SB3-11.0 ▽
35.1				BLACK CLAYEY SAND WITH GRAVEL AND DEBRIS (SC) (N 2.5/1), wet, fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 20% debris (brick, glass, metal, ceramic, and wood fragments), (15% gravel, 55% sand, 30% fines)
4.5		15		
				GREENISH GRAY CLAY (CH) (10GY 5/1), wet, soft, high plasticity, (0% gravel, 0% sand, 100% fines)
1.1				
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/7/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/7/13

PLATE
C-3

PES Environmental, Inc.

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LOG OF BORING SB4

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				OLIVE BROWN GRAVEL WITH SAND AND SILT (GP) (2.5Y 4/4), dry, very fine to coarse sand, angular gravel up to 1.5-inch diameter, (50% gravel, 40% sand, 10% fines) Sample ID: SB4-1.5
0.6				DARK OLIVE BROWN CLAYEY SAND WITH GRAVEL (SC) (2.5Y 3/3), moist, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, less than 5% debris (brick, glass, and metal fragments), (20% gravel, 45% sand, 35% fines)
1.0				
		5		Sample ID: SB4-5.0
1.2				
1.0				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (N3/), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 15% debris (brick, glass, wood and metal fragments), (15% gravel, 30% sand, 55% fines)
		10		Sample ID: SB4-10.0
12.1			▽	BLACK CLAYEY SAND WITH GRAVEL AND DEBRIS (SC) (N 2.5/1), wet, fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 20% debris (brick, glass, metal, and wood fragments), (15% gravel, 60% sand, 25% fines)
1.3		15		BLACK CLAY (CH) (N 2.5/1), wet, soft, high plasticity, (0% gravel, 0% sand, 100% fines)
4.1				GREENISH GRAY CLAY (CH) (10GY 5/1), wet, soft, high plasticity, (0% gravel, 0% sand, 100% fines)
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/7/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/7/13

PLATE

C-4

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LOG OF BORING SB5

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				No recovery
1.0				DARK OLIVE BROWN CLAYEY SAND WITH GRAVEL (SC) (2.5Y 3/3), moist, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, less than 5% debris (brick and wood fragments), (25% gravel, 35% sand, 40% fines)
				Sample ID: SB5-3.0
1.3				
		5		
				Concrete debris from 6.5 to 7.5 feet
0.9				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (N3/), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 15% debris (brick, glass, and wood fragments), (15% gravel, 25% sand, 60% fines) Sample ID: SB5-6.0
		10		Abundant brick debris at 10 feet
0.9				
			▽	BLACK CLAYEY SAND WITH GRAVEL AND DEBRIS (SC) (N 2.5/1), moist, fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 20% debris (brick, glass, metal, and wood fragments), (15% gravel, 55% sand, 30% fines) Sample ID: SB5-11.5 Wet at 12 feet
1.4				
		15		DARK GREENISH GRAY CLAY (CH) (10GY 4/1), wet, soft, very fine to fine sand, high plasticity, (0% gravel, 10% sand, 90% fines)
2.2				
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/7/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/7/13

PLATE

C-5

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING SB6

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				DARK OLIVE BROWN CLAYEY SAND WITH GRAVEL (SC) (2.5Y 3/3), moist, very fine to medium sand, minor coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 10% debris (brick, glass and wood fragments), (15% gravel, 55% sand, 30% fines)
1.6				
				Change in color to VERY DARK GRAY (2.5Y 3/1), increase in clay content to (15% gravel, 45% sand, 40% fines) at 3.5 feet
				Sample ID: SB6-4.0
		5		
				Concrete debris at 5.5 feet
2.4				
				DARK GREENISH GRAY CLAYEY SAND (SC) (10Y 4/1), moist, stiff, fine sand, (0% gravel, 80% sand, 20% fines) Sample ID: SB6-8.0
				BLACK CLAYEY SAND WITH GRAVEL AND DEBRIS (SC) (N 2.5/1), moist, fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 40% debris (brick, glass, metal, and wood fragments), (15% gravel, 55% sand, 30% fines)
4.1				
		10		Sample ID: SB6-10.0
			▽	Wet at 13 feet
1.7				
		15		GREENISH GRAY CLAY WITH SAND (CH) (10GY 5/1), wet, soft, very fine to fine sand, high plasticity, (0% gravel, 20% sand, 80% fines)
3.2				
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/7/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/7/13

PLATE

C-6

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING SB7

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				DARK OLIVE BROWN CLAYEY SAND WITH GRAVEL (SC) (2.5Y 3/3), moist, very fine to medium sand, minor coarse sand, sub-angular to angular gravel up to 2.0-inch diameter, less than 5% debris (brick and glass fragments), (15% gravel, 55% sand, 30% fines)
0.9				
				Sample ID: SB7-2.5
				Change in color to VERY DARK GRAY (2.5Y 3/1), increase in clay content to (15% gravel, 45% sand, 40% fines) at 3.0 feet
1.2				
		5		Abundant brick fragments at 5 feet
1.6				
				Sample ID: SB7-8.0
				DARK GREENISH GRAY SAND WITH CLAY (SP) (10Y 4/1), moist, fine to medium sand, (0% gravel, 90% sand, 10% fines)
		10		
1.8				
			▽	Sample ID: SB7-12.5
				Wet at 13.0 feet
		15		DARK GREENISH GRAY CLAYEY GRAVEL WITH SAND (GC) (10Y 4/1), wet, fine to coarse sand, sub-angular to angular gravel up to 3-inch diameter, (60% gravel, 15% sand, 25% fines)
2.5				
1.9				GREENISH GRAY SANDY CLAY (CL) (10GY 5/1), wet, soft, very fine to fine sand, low plasticity, (0% gravel, 30% sand, 70% fines)
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/8/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/8/13

PLATE

C-7

PES Environmental, Inc.

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LOG OF BORING SB8

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT AND BASE ROCK
				LIGHT YELLOWISH BROWN SILTY SAND WITH GRAVEL (SM) (10YR 6/4), dry, very fine to fine sand, sub-angular to angular gravel up to 1-inch diameter, (15% gravel, 70% sand, 15% fines)
0.3				
				DARK YELLOWISH BROWN CLAYEY GRAVEL WITH SAND (GC) (10YR 3/4), moist, very fine to fine sand, minor coarse sand, sub-angular to angular gravel up to 3-inch diameter, less than 5% debris (brick fragments), (50% gravel, 20% sand, 30% fines) Sample ID: SB8-3.5
		5		
0.1				YELLOWISH BROWN SAND (SP) (10Y 5/4), moist, fine to medium sand, (0% gravel, 100% sand, 0% fines)
0.2				Sample ID: SB8-8.0
		10		
0.4				Sample ID: SB8-12.0 Wet at 12.5 feet Change in color to DARK GREENISH GRAY (5GY 4/1) at 13 feet
		15		VERY DARK GRAY CLAY WITH SILT AND SAND (CL) (N 3/), wet, medium stiff, very fine to fine sand, less than 5% debris (wood), (0% gravel, 20% sand, 80% fines)
1.6				
2.0				
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/8/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/8/13

PLATE

C-8

PES Environmental, Inc.
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LOG OF BORING SB9

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT AND BASE ROCK
				GRAY GRAVEL WITH SAND (GP) (5Y 5/1), dry, very fine to coarse sand, angular gravel up to 1.5-inch diameter, (60% gravel, 40% sand, 15% fines)
				DARK OLIVE BROWN CLAYEY SAND WITH GRAVEL (SC) (2.5Y 3/3), moist, very fine to medium sand, minor coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 5% debris (brick fragments), (15% gravel, 55% sand, 30% fines)
1.1				Change in color to VERY DARK GRAY (2.5Y 3/1) at 4 feet, increase in clay to (15% gravel, 45% sand, 40% fines)
		5		Sample ID: SB9-4.5
				VERY DARK GREENISH GRAY CLAYEY SAND WITH GRAVEL (SC) (10Y 3/1), moist, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, up to 5% debris (brick fragments), (15% gravel, 45% sand, 40% fines)
0.8				
		10		Sample ID: SB9-10.0
			▽	VERY DARK GRAY CLAYEY GRAVEL WITH SAND (GC) (N 3/1), wet, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, less than 5% debris (brick and wood fragments), (50% gravel, 20% sand, 30% fines)
1.7		15		
0.9				GREENISH GRAY SILT WITH SAND (ML) (5GY 5/1), moist, stiff, very fine to fine sand, non-plastic, (0% gravel, 20% sand, 80% fines)
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/8/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/8/13

PLATE
C-9

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING SB10

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT AND BASE ROCK
				DARK OLIVE BROWN CLAYEY SAND WITH GRAVEL (SC) (2.5Y 3/3), moist, very fine to medium sand, minor coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 5% debris (brick fragments), (20% gravel, 50% sand, 30% fines)
1.3				Sample ID: SB10-2.0
				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (N 3/), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, less than 5% debris (brick, metal and concrete fragments), (20% gravel, 25% sand, 55% fines)
		5		Sample ID: SB10-5.0
2.1				OLIVE BROWN CLAYEY SAND (SC) (2.5Y 4/3), moist, very fine to medium sand, trace fine gravel, (5% gravel, 65% sand, 30% fines)
1.6				DARK GREENISH GRAY CLAY WITH SAND (CL) (5GY 4/1), moist, soft, very fine to medium sand, (0% gravel, 20% sand, 80% fines)
		10		Sample ID: SB10-10.0
			▽	
3.2				VERY DARK GRAY CLAYEY GRAVEL WITH SAND (GC) (N 3/1), wet, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, (50% gravel, 20% sand, 30% fines), up to 5% debris at 12 to 15 feet
		15		Increase in debris to up to 25% from 15 to 16 feet (primarily wood and glass fragments)
2.7				BLACK CLAYEY SAND WITH GRAVEL (SC) (N2 5/1), wet, very fine to coarse sand, sub-angular to angular gravel up to 2.5-inch diameter, up to 20% debris (brick, concrete, glass, and wood), (15% gravel, 70% sand, 15% fines)
3.1				GREENISH GRAY CLAY WITH SILT (CL) (5GY 5/1), moist, stiff, very fine to fine sand, low plasticity, (0% gravel, 10% sand, 90% fines)
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/8/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/8/13

PLATE
C-10

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING SB11

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT
				LIGHT YELLOWISH BROWN GRAVEL WITH SAND (GP) (2.5Y 6/3), dry, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, (60% gravel, 40% sand, 0% fines)
0.3				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (2.5Y 3/1), moist, very stiff, very fine to coarse sand, minor coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 5% debris (brick fragments), (15% gravel, 30% sand, 55% fines) Sample ID: SB11-2.0
		5		DARK OLIVE BROWN CLAYEY SAND WITH GRAVEL (SC) (2.5Y 3/3), moist, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 10% debris (brick, wood and metal fragments), (0% gravel, 100% sand, 0% fines) Concrete debris at 4 feet Sample ID: SB11-5.5 Concrete debris at 6 feet
1.1				
0.9				
		10		OLIVE BROWN SAND WITH CLAY (SP) (2.5Y 4/6), moist, fine to medium sand, (0% gravel, 90% sand, 10% fines)
			▽	Sample ID: SB11-11.5 Wet at 12 feet
2.1				Change in color to DARK GREENISH GRAY (10GY 4/1) at 12.75 feet
		15		
1.4				
				DARK GREENISH GRAY CLAY WITH SAND (CL) (10GY 4/1), wet, soft, very fine to fine sand, (0% gravel, 20% sand, 80% fines)
1.0		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/8/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/8/13

PLATE

C-11

PES Environmental, Inc.

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LOG OF BORING SB12

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT AND BASE ROCK
				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (N 3/), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 5% debris (brick and wood fragments), (15% gravel, 30% sand, 55% fines)
2.1				Sample ID: SB12-2.0
				VERY DARK GRAY CLAYEY SAND WITH GRAVEL (SC) (N 3/), moist, stiff, very fine to medium sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 5% debris (brick fragments), (15% gravel, 55% sand, 30% fines) Concrete debris at 3 feet
1.3		5		Sample ID: SB12-5.0
0.7				
		10		Increase in debris up to 20% (brick and glass fragments) at 9.75 feet Sample ID: SB12-10.0
			▽	Wet at 12 feet, Increase in debris up to 30% (brick, wood and glass fragments) at 12 feet
9.1				
15		15		Up to 85% debris (wood) from 15 to 16 feet
				DARK GREENISH GRAY SAND (SP) (10GY 4/1), wet, very fine to medium sand, (0% gravel, 95% sand, 5% fines)
1.4				DARK GREENISH GRAY SANDY CLAY (CL) (106Y 4/1), wet, stiff, very fine to fine sand, low plasticity, (0% gravel, 30% sand, 70% fines)
				Shell fragments present from 19 to 20 feet
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/8/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/8/13

PLATE

C-12

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING SB13

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT AND BASE ROCK
1.3				VERY DARK GRAY SANDY CLAY WITH GRAVEL (CL) (N 3/), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 5% debris (brick fragments), (15% gravel, 30% sand, 55% fines) Sample ID: SB13-1.5 Concrete debris at 2 to 2.5 feet
1.2		5		VERY DARK GRAY CLAYEY SAND WITH GRAVEL (SC) (N 3/), moist, stiff, very fine to medium sand, sub-angular to angular gravel up to 1.5-inch diameter, less than 5% debris (brick and wood fragments), (15% gravel, 55% sand, 30% fines) Sample ID: SB13-5.0
2.0				Increase in debris up to 20% (brick, wood, metal, ceramic, and glass fragments) at 8.5 feet
		10		Sample ID: SB13-10.0
2.1			▽	Wet at 12 feet; increase in debris up to 40% (ceramic, wood, metal, and glass fragments) at 12 feet
		15		VERY DARK GRAY CLAY (CH) (N 3/), wet, soft, very fine sand, (0% gravel, 10% sand, 90% fines)
4.0				
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/8/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/8/13

PLATE

C-13

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING SB14

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				ASPHALT AND BASE ROCK
0.9				OLIVE BROWN SANDY CLAY WITH GRAVEL (CL) (2.5Y 4/4), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, (15% gravel, 30% sand, 55% fines)
				Sample ID: SB14-3.5
1.1		5		
				Change in color to VERY DARK GRAY (N 3/) at 8 feet, increase in debris to up to 5% (brick and wood fragments)
				Sample ID: SB14-8.5
1.2		10		
				Increase in debris to up to 40% (brick, glass, metal, asphalt and concrete fragments)
				▽ Sample ID: SB14-11.5
				BLACK CLAYEY SAND WITH GRAVEL (SC) (N 2.5/1), wet, very fine to coarse sand, sub-angular to angular gravel up to 5-inch diameter, up to 15% debris (brick, wood and glass fragments), (15% gravel, 60% sand, 25% fines)
4.7				Increase in clay content to (15% gravel, 30% sand, 35% fines) at 13.5 feet
		15		
				Decrease in clay content to (15% gravel, 60% sand, 25% fines) at 16 feet Up to 25% debris (brick, metal, concrete, glass, and wood debris)
20.6				
				BLACK SANDY CLAY WITH GRAVEL (CL) (N 2.5/1), wet, medium stiff, very fine to fine sand, sub-angular to angular gravel up to 1-inch diameter, up to 5% debris (wood, metal, and glass fragments), (15% gravel, 25% sand, 60% fines)
				VERY DARK GRAY CLAY WITH SAND (CH) (N 3/1), wet, soft, very fine sand, (0% gravel, 10% sand, 90% fines) Gravel and concrete debris at 19 to 19.5 feet
6.4		20		
		25		Bottom of boring at 25 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	25 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/9/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/9/13

PLATE
C-14

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING SB15

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				CONCRETE AND BASE ROCK
				OLIVE BROWN SANDY CLAY WITH GRAVEL (CL) (2.5Y 4/4), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, (15% gravel, 30% sand, 55% fines), up to 10% debris (brick, asphalt, and wood fragments)
0.3				Sample ID: SB15-2.5
				Change in color to VERY DARK GRAY (N 3/) at 3.5 feet
		5		
1.2				Increase in debris to up to 10% (brick, wood, and concrete fragments)
				Sample ID: SB15-7.5
0.7				
		10		
			▽	Sample ID: SB15-11.5 Wet at 11.75 feet Change in color to BLACK (N 2.5/1), up to 10% debris (glass, brick, and wood fragments)
1.0				
		15		
1.5				BLACK CLAYEY SAND WITH GRAVEL (SC) (N 2.5/1), wet, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 15% debris (brick, wood and glass fragments), (15% gravel, 55% sand, 30% fines)
2.8				VERY DARK GRAY CLAY (CH) (N 3/), wet, soft, high plasticity, (0% gravel, 5% sand, 95% fines)
				DARK GREENISH GRAY SANDY SILT (ML) (5GY 4/1), wet, soft, very fine to fine sand, (0% gravel, 30% sand, 70% fines)
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/9/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/9/13

PLATE

C-15

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING SB16

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				CONCRETE AND BASE ROCK
				OLIVE BROWN SANDY CLAY WITH GRAVEL (CL) (2.5Y 4/4), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, (15% gravel, 30% sand, 55% fines)
1.0				Sample ID: SB16-2.5
		5		Change in color to VERY DARK GRAY (N 3/) at 4.5 feet
				BLACK CLAYEY SAND WITH GRAVEL (SC) (N 2.5/1), moist, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 15% debris (wood, metal, concrete, and glass fragments), (15% gravel, 60% sand, 25% fines)
				Sample ID: SB16-7.5
0.6				
		10		
				Sample ID: SB16-10.5
			▽	Wet at 11 feet
1.3				
				Increase in clay content to (15% gravel, 45% sand, 40% fines) at 13 feet Increase in debris to up to 25% (wood, brick, metal, and glass fragments)
		15		
2.5				VERY DARK GRAY CLAYEY GRAVEL WITH SAND (GC) (N 3/), wet, soft, sub-angular to angular gravel up to 3-inch diameter, up to 20% debris (clay pipe and wood fragments), (70% gravel, 15% sand, 15% fines)
				VERY DARK GREENISH GRAY CLAY (CH) (5GY 3/1), wet, soft, high plasticity, (0% gravel, 0% sand, 100% fines)
0.9				
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/9/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/9/13

PLATE

C-16

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING SB17

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				CONCRETE AND BASE ROCK
				OLIVE BROWN SANDY CLAY WITH GRAVEL (CL) (2.5Y 4/4), moist, stiff, very fine to coarse sand, sub-angular to angular gravel up to 2-inch diameter, up to 10% debris (brick, wood, and glass fragments), (15% gravel, 30% sand, 55% fines) Sample ID: SB17-2.0
1.0				
		5		Sample ID: SB17-5.0
				Increase in debris to up to 20% (large brick fragments, glass and wood debris)
0.3				Sample ID: SB17-9.5
		10		Abundant brick fragments at 10 feet
0.5				DARK OLIVE GRAY SANDY CLAY (CL) (5Y 3/6), wet, medium stiff, very fine to coarse sand, sub-angular to angular gravel, up to 1.5-inch diameter, up to 15% debris (asphalt, wood and brick fragments), (15% gravel, 20% sand, 65% fines)
1.2		15		BLACK CLAYEY SAND WITH GRAVEL (SC) (N 2.5/1), wet, very fine to coarse sand, sub-angular to angular gravel, up to 1.5-inch diameter, up to 10% debris (glass, wood and brick fragments), (15% gravel, 60% sand, 25% fines)
1.9				DARK OLIVE GRAY CLAY WITH SAND (CL) (5Y 3/8), wet, soft, very fine to fine sand, sub-angular to angular gravel, up to 1.5-inch diameter, black marbling present, (0% gravel, 15% sand, 85% fines)
				DARK GREENISH GRAY SANDY CLAY (CL) (5GY 4/1), wet, very fine to fine sand, (0% gravel, 30% sand, 70% fines)
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/9/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/9/13

PLATE

C-17

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING SB18

PID (ppm)	Blows/6-in.	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				CONCRETE AND BASE ROCK
0.4				OLIVE BROWN CLAYEY GRAVEL WITH SAND (GC) (2.5Y 4/1), dry, stiff, very fine to coarse sand, sub-angular to angular gravel up to 2.5-inch diameter, up to 10% debris (brick, wood, concrete, and glass fragments), (50% gravel, 25% sand, 25% fines) Sample ID: SB18-2.0 Abundant concrete debris at 2 feet
0.5				DARK GREENISH GRAY SANDY CLAY WITH GRAVEL (CL) (5GY 4/1), MOIST, stiff, very fine to coarse sand, sub-angular to angular gravel up to 1.5-inch diameter, up to 5% debris (brick, asphalt, and concrete fragments), (15% gravel, 30% sand, 55% fines) Abundant asphalt debris from 3 to 4 feet
		5		Sample ID: SB18-5.0
0.7				Change in color to VERY DARK GRAY (N 3/) Increase in debris to up to 10% (wood and brick fragments)
0.8				BLACK CLAYEY SAND WITH GRAVEL (SC) (N 2.5/1), moist, very fine to coarse sand, sub-angular to angular gravel, up to 1.5-inch diameter, up to 20% debris (brick, glass, wood and metal fragments), (15% gravel, 45% sand, 40% fines)
		10		Sample ID: SB18-10.0
1.0			▽	VERY DARK GRAY CLAYEY GRAVEL WITH SAND (GC) (N 3/), wet, very fine to coarse sand, sub-angular to angular gravel, up to 3-inch diameter, up to 10% debris (brick and wood fragments), (50% gravel, 25% sand, 25% fines)
		15		
1.3				VERY DARK GREENISH GRAY CLAY (CH) (5GY 3/1), wet, soft, very fine sand, high plasticity, (0% gravel, 10% sand, 90% fines)
		20		Bottom of boring at 20 feet bgs. Boring backfilled with neat cement grout.

PROJECT	6701 Shellmound Street	REVIEWED BY	GDT
LOCATION	Emeryville, CA	DIAMETER OF HOLE	3.5
JOB NUMBER	1386.001.01.005	TOTAL DEPTH OF HOLE	20 feet
LOGGED BY	Mitch Buttress	DATE STARTED	11/9/13
DRILL RIG	Geoprobe 8040 DT	DATE COMPLETED	11/9/13

PLATE

C-18

APPENDIX D

GROUNDWATER SAMPLING FORMS

WELL GAUGING DATA

Project # 131111-PC Date 11/11/13 Client PES

Site 6701 Shellmound St., Emeryville

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
GGW1	0850	3/4					11.87	20.05		
GGW2	0940	3/4					12.69	20.10		
GGW3	1030	3/4					12.28	20.11		
GGW4	1122	3/4					13.49	20.10		
GGW5	1200	3/4					13.42	20.12		
GGW6	1255	3/4					10.79	20.10		

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 670 Shellmound, Emeryville				PROJECT NUMBER 13111-PC1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. C	INITIALS
YSI ProPlus	12J017 02	11/11/13 0910	DO→100%	99.2	Y	18.1	PC
			4/7/10 pH	4.00/7.02/10.02	Y	18.5	
			3900 µs	3904	Y	18.8	
			237.5 mV @ 20°C	231.1	Y	18.8	

WELL MONITORING DATA SHEET

Project #: 131111-PC1	Site: 6701 Shellmound St., Emeryville
Sampler: PC	Date: 11/11/13
Well I.D.: GGW-1	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 20.05	Depth to Water (DTW): 11.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.51	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- X Other Peri. Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- X Other: New Tubing

Flow Rate= 0.11 gpm Tubing Intake: 16'

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0905	19.2	9.14	3774	>1000	0.18	-90.9	0.1	brown light sheen
0907	19.3	9.23	3868	>1000	0.13	-91.1	0.2	" " "
0910	19.2	9.26	3870	669	0.12	-141.7	0.3	cloudy brown "
0912	19.1	9.21	3852	327	0.12	-116.0	0.4	" " "
0914	19.2	9.25	3863	521	0.11	-104.4	0.5	" " "
0917	19.2	9.23	3845	216	0.10	-101.0	0.6	cloudy
		per client, continue purge for turbidity drop.						

Did well dewater? Yes (No) Gallons actually evacuated: 1

Sampling Date: 11/11/13 Sampling Time: Depth to Water: 11.91

Sample I.D.: GGW-1 Laboratory: CET

Analyzed for: Title 22 Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 131111-PC1	Site: 6701 Shellmound St., Emeryville
Sampler: PC	Date: 11/11/13
Well I.D. GGW1	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 20.05	Depth to Water (DTW): 11.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.51	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- X Other Peri Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- X Other: Peri. Pump w/ New Tubing

Flow Rate= 0.1 gpm

1 Case Volume		Specified Volumes		Calculated Volume	
0.2	(Gals.) X	3	=	0.6	Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°C) (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0920	19.1	9.20	3865	169	0.09	-98.0	0.7	
0923	19.1	9.19	3862	134	0.08	-100.2	0.8	
0925	19.1	9.22	3902	157	0.09	-107.0	0.9	
0926	19.2	9.15	3866	123	0.08	-110.7	1.0	

Did well dewater? Yes (No) Gallons actually evacuated: 1

Sampling Date: 11/11/13 Sampling Time: 0926 Depth to Water: 11.91

Sample I.D.: GGW1 Laboratory: CET

Analyzed for: Title 22 Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 131111-Rel	Site: 6701 Shellmound St., Emeryville
Sampler: PC	Date: 11/11/13
Well I.D.: GGW2	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 20.10	Depth to Water (DTW): 12.69
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.17	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- X Other Peri. Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- X Other: New Tubing

Flow Rate= 0.08 gpm Tubing Intake: 16'

0.2 (Gals.) X	3	= 0.6 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
0947	20.2	9.15	2155	>1000	0.07	-104.3	0.1	dark brown.
0949	20.1	9.16	2156	>1000	0.06	-107.9	0.2	" "
0952	20.0	9.16	2161	>1000	0.07	-111.6	0.3	" "
0956	19.9	9.15	2164	>1000	0.06	-111.4	0.4	"
0958	19.9	9.14	2168	>1000	0.06	-113.8	0.5	"
1001	20.0	9.13	2169	>1000	0.06	-113.6	0.6	"
		Per client, continue purge to see if turbidity drops						

Did well dewater? Yes (No) Gallons actually evacuated: 1.6

Sampling Date: 11/11/13 Sampling Time: 1035 Depth to Water: 12.78

Sample I.D.: GGW2 Laboratory: C&T

Analyzed for: Title 22 Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 131111-PC1	Site: 6701 Shellmound St, Emeryville
Sampler: PC	Date: 11/11/13
Well I.D.: GGW-2	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 20.10	Depth to Water (DTW): 12.69
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.17	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- X Other Peristaltic Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- X Other: New Tubing

Flow Rate= 0.08 gpm

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1004	19.9	9.12	2174	>1000	0.06	-112.7	0.7	brown
1008	19.8	9.08	2180	879	0.09	-112.6	0.8	"
1011	19.8	9.08	2177	788	0.06	-111.6	0.9	"
1014	19.9	9.08	2175	700	0.06	-109.9	1.0	"
1016	19.9	9.08	2176	594	0.06	-111.3	1.1	"
1019	19.9	9.08	2180	558	0.06	-115.5	1.2	"
1022	19.8	9.09	2181	530	0.06	-109.7	1.3	"

Did well dewater? Yes (No) Gallons actually evacuated: 1.6

Sampling Date: 11/11/13 Sampling Time: 1035 Depth to Water: 12.78

Sample I.D.: GGW-2 Laboratory: CAT

Analyzed for: TPHd22 Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 131111-PC1	Site: 6701 Shellmound St., Emeryville
Sampler: PC	Date: 11/11/13
Well I.D.: GGW-2	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 20.10	Depth to Water (DTW): 12.69
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.17	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- (X) Other Peri. Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- (X) Other: New Tubing

Flow Rate= 0.08 gpm

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1025	19.8	9.08	2180	490	0.07	-105.7	1.4	lightbrown
1028	19.6	9.08	2180	439	0.06	-103.5	1.5	" "
1031	19.5	9.07	2178	420	0.06	-112.2	1.6	" "

Did well dewater? Yes (No) Gallons actually evacuated: 1.6

Sampling Date: 11/11/13 Sampling Time: 1035 Depth to Water: 12.78

Sample I.D.: GGW-2 Laboratory: C&T

Analyzed for: Title 22 Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 131111-PC1	Site: 6701 Shellmound St., Emeryville
Sampler: PC	Date: 11/11/13
Well I.D.: GGW3	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 20.11	Depth to Water (DTW): 12.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI ProPlus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.85	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- X Other Peri. Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- X Other: New Tubing

Flow Rate= 0.08 gpm Tubing Intake: 16'

1 Case Volume	(Gals.) X	Specified Volumes	=	Calculated Volume	Gals.
0.2		3		0.6	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1044	21.3	10.13	2148	71000	0.08	-55.3	0.1	black
1047	21.5	9.45	1898	678	0.06	-60.0	0.2	grey, cloudy
1050	21.3	9.37	1802	532	0.07	-63.5	0.3	" "
1053	21.2	9.27	1748	534	0.07	-62.6	0.4	" "
1056	21.2	9.24	1712	457	0.07	-62.3	0.5	" "
1059	20.7	9.16	1643	413	0.08	-63.4	0.6	" "
1102	21.1	9.12	1567	402	0.07	-66.8	0.7	" "
1105	21.4	9.09	1496	545	0.07	-64.1	0.8	" "

Did well dewater? Yes (No)		Gallons actually evacuated: 0.8	
Sampling Date: 11/11/13	Sampling Time: 1109	Depth to Water: 12.28	
Sample I.D.: GGW3		Laboratory: C&T	
Analyzed for: Title 22		Other:	
EB I.D. (if applicable):	@ Time	Duplicate I.D. (if applicable):	
FB I.D. (if applicable):	@ Time	Analyzed for:	
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 131111-PC	Site: 670 Shellmound St., Emeryville
Sampler: PC	Date: 11/11/13
Well I.D.: GGLW4	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 20.10	Depth to Water (DTW): 13.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI ProPlus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.81	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- X Other Peri. Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- X Other: New Tubing

Flow Rate= 0.08 gpm Pump Intake:

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1134	18.7	7.54	2062	71000	0.28	-50.0	0.1	grey
1137	18.7	7.51	2139	651	0.22	-71.7	0.2	"
1140	18.6	7.50	2164	183	0.20	-52.2	0.3	cloudy
1143	18.6	7.49	2181	51	0.18	-49.7	0.4	"
1146	18.7	7.49	2190	29	0.17	-52.2	0.5	"
1149	18.6	7.48	2172	23	0.20	-57.2	0.6	clear
1152	18.7	7.48	2191	27	0.20	-53.3	0.7	"
1155	18.7	7.48	2193	23	0.25	-54.4	0.8	"
1158								

Did well dewater?	Yes	(No)	Gallons actually evacuated:	0.8
Sampling Date: 11/11/13	Sampling Time: 1200		Depth to Water:	13.50
Sample I.D.: GGLW4	Laboratory: CET			
Analyzed for: Title 22	Other:			
EB I.D. (if applicable):	@ Time	Duplicate I.D. (if applicable):		
FB I.D. (if applicable):	@ Time	Analyzed for:		
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L	
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV	

WELL MONITORING DATA SHEET

Project #: 131111-PC1	Site: 670 Shellmound St., Emeryville
Sampler: PC	Date: 11/11/13
Well I.D.: GGW-5	Well Diameter: 2 3 4 6 8 (3/4")
Total Well Depth (TD): 20.12	Depth to Water (DTW): 13.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI ProPlus
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.76	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- X Other Peri. Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- X Other: New Tubing

Flow Rate= 0.08 gpm Tubing Intake: 16.5'

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°C) (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1215	17.9	7.71	5198	>1000	0.10	-86.6	0.1	grey
1218	17.8	7.58	4261	>1000	0.09	-89.8	0.2	"
1221	18.0	7.52	4001	>1000	0.11	-91.5	0.3	"
1224	17.8	7.50	3893	>1000	0.12	-88.8	0.4	"
1227	17.9	7.49	3822	706	0.45	-83.5	0.5	"
1230	18.0	7.49	3765	503	0.61	-83.1	0.6	"
1233	17.8	7.48	3736	357	0.54	-80.0	0.7	light grey
1235	17.8	7.47	3705	275	0.46	-77.1	0.8	" "
1238	17.8	7.46	3649	196	0.44	-75.6	0.9	" "
1240	17.7	7.46	3654	151	0.42	-75.7	1.0	" "
1243	17.7	7.46	3632	119	0.39	-73.4	1.1	cloudy
1246	17.7	7.47	3631	125	0.37	-73.1	1.2	"

Did well dewater? Yes (No) Gallons actually evacuated: 1.2

Sampling Date: 11/11/13 Sampling Time: 1250 Depth to Water: 13.50

Sample I.D.: GGW-5 Laboratory: CET

Analyzed for: Title 22 Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 13111-PC1	Site: 6701 Shellmound St., Emeryville
Sampler: PC	Date: 11/11/13
Well I.D.: GGLW-6	Well Diameter: 2 3 4 6 8 (3/4)
Total Well Depth (TD): 20.10	Depth to Water (DTW): 10.79
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type:
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.65	

Purge Method:
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- 2" Rediflo pump
- Extraction Pump
- X Other: Peri. Pump

Sampling Method:
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- X Other: New Tubing

Flow Rate= 0.08 gpm Tubing Intake: 16'

0.2 (Gals.) X 3 = 0.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°C) (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1304	19.5	7.63	2394	>1000	0.14	-521.8	0.1	grey
1307	19.5	7.62	2389	>1000	0.14	-535.1	0.2	"
1310	19.4	7.61	2388	>1000	0.15	-542.6	0.3	"
1312	19.6	7.60	2384	>1000	0.31	-542.2	0.4	"
1315	19.5	7.57	2381	>1000	0.45	-536.8	0.5	"
1318	19.6	7.56	2384	580	0.34	-531.3	0.6	cloudy
1320	19.5	7.55	2389	418	0.30	-524.7	0.7	"
1323	19.6	7.55	2388	381	0.28	-516.4	0.8	"
1326	19.60	7.54	2387	412	0.26	-516.3	0.9	"
1329	19.6	7.53	2388	408	0.25	-513.9	1.0	"

Did well dewater? Yes (No) Gallons actually evacuated: 1.0

Sampling Date: 11/11/13 Sampling Time: 1334 Depth to Water: 10.80

Sample I.D.: GGLW-6 Laboratory: C&T

Analyzed for: Title 22 Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

APPENDIX E

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION FOR SOIL AND GROUNDWATER SAMPLES


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 250703
ANALYTICAL REPORT

PES Environmental, Inc.
1682 Novato Boulevard
Novato, CA 94947

Project : 1386.001.01.003
Location : 6701 Shellmound, Emeryville
Level : II

Sample ID	Lab ID
GGW-1	250703-001
GGW-2	250703-002
GGW-3	250703-003
GGW-4	250703-004
GGW-5	250703-005
GGW-6	250703-006

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: Will Rice Date: 11/12/2013

Will S Rice
Project Manager
will.rice@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**250703**
Client:	**PES Environmental, Inc.**
Project:	**1386.001.01.003**
Location:	**6701 Shellmound, Emeryville**
Request Date:	**11/11/13**
Samples Received:	**11/11/13**

This data package contains sample and QC results for six water samples, requested for the above referenced project on 11/11/13. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7470A):
Lead was detected between the MDL and the RL in the method blank for batch 204944. No other analytical problems were encountered.

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD 250703

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C+T

SAMPLERS: M. Buttress, P. Cornish

JOB NUMBER: 1386.001.01.003

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K. Flory

RECORDER: M. Buttress

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX: Vapor	Water	Soil	Sedim't	# of Containers & Preservatives: Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13 11	11		0926	GGW-1		X			1			1		
2				1035	GGW-2		X			1			1		
3				1109	GGW-3		X			1			1		
4				1200	GGW-4		X			1			1		
5				1250	GGW-5		X			1			1		
6				1334	GGW-6		X			1			1		

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Title 22 Metals (6010/7471)*
							X	X
							X	
							X	
							X	
							X	
							X	

NOTES

Turn Around Time: 24-hour

*: dissolved metals. samples filtered in field. use HNO_3 preserved container, unpreserved container is back-up.

Page 1 of 1

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	11/11/13	1700

METHOD OF SHIPMENT:

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 250703 Date Received 11/11/13 Number of coolers 1
Client YES Project 6701 Stellmond

Date Opened 11/11 By (print) M (sign) M
Date Logged in b By (print) b (sign) b

1. Did cooler come with a shipping slip (airbill, etc) ____ YES (NO)
Shipping info ____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many ____ Name ____ Date ____
2B. Were custody seals intact upon arrival? ____ YES NO (N/A)
3. Were custody papers dry and intact when received? ____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? ____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ____ (YES) NO
6. Indicate the packing in cooler: (if other, describe) ____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) ____

☒ Samples Received on ice & cold without a temperature blank; ~~temp. taken with IR gun~~

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ YES (NO)
If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ (YES) 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? ____ (YES) NO
15. Are the samples appropriately preserved? ____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? ____ (YES) NO N/A
17. Did you document your preservative check? ____ (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? ____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? ____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? ____ YES (NO)
If YES, Who was called? ____ By ____ Date: ____

COMMENTS
17) -VOS Neil w pH >2 added 1mL HNO3 (Lot# 37901) to 17 to pH <2

Curtis & Tompkins Sample Preservation for 250703

Sample	pH: <2	>9	>12	Other
-001a	[✓]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
-002a	[✓]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
-003a	[✓]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
-004a	[✓]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
-005a	[✓]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____
-006a	[✓]	[ ]	[ ]	_____
b	[ ]	[ ]	[ ]	_____

Analyst: MM

Date: 11/11/13

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	250703	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	GGW-1	Diln Fac:	1.000
Lab ID:	250703-001	Sampled:	11/11/13
Matrix:	Filtrate	Received:	11/11/13
Units:	ug/L	Analyzed:	11/12/13

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Arsenic	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Barium	250	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Beryllium	ND	2.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cadmium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Chromium	8.9	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cobalt	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Copper	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Lead	59	5.0	0.85	204944	11/11/13	EPA 3010A	EPA 6010B
Mercury	0.28	0.20		204971	11/12/13	METHOD	EPA 7470A
Molybdenum	10	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Nickel	5.4	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Selenium	27	10		204944	11/11/13	EPA 3010A	EPA 6010B
Silver	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Thallium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Vanadium	71	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Zinc	210	20		204944	11/11/13	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	250703	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	GGW-2	Diln Fac:	1.000
Lab ID:	250703-002	Sampled:	11/11/13
Matrix:	Filtrate	Received:	11/11/13
Units:	ug/L	Analyzed:	11/12/13

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Arsenic	6.4	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Barium	280	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Beryllium	ND	2.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cadmium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Chromium	8.0	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cobalt	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Copper	9.1	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Lead	190	5.0	0.85	204944	11/11/13	EPA 3010A	EPA 6010B
Mercury	0.41	0.20		204971	11/12/13	METHOD	EPA 7470A
Molybdenum	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Nickel	8.5	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Selenium	26	10		204944	11/11/13	EPA 3010A	EPA 6010B
Silver	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Thallium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Vanadium	22	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Zinc	360	20		204944	11/11/13	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	250703	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	GGW-3	Diln Fac:	1.000
Lab ID:	250703-003	Sampled:	11/11/13
Matrix:	Filtrate	Received:	11/11/13
Units:	ug/L	Analyzed:	11/12/13

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Arsenic	32	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Barium	340	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Beryllium	ND	2.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cadmium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Chromium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cobalt	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Copper	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Lead	17	5.0	0.85	204944	11/11/13	EPA 3010A	EPA 6010B
Mercury	ND	0.20		204971	11/12/13	METHOD	EPA 7470A
Molybdenum	8.7	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Nickel	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Selenium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Silver	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Thallium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Vanadium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Zinc	29	20		204944	11/11/13	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	250703	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	GGW-4	Diln Fac:	1.000
Lab ID:	250703-004	Sampled:	11/11/13
Matrix:	Filtrate	Received:	11/11/13
Units:	ug/L	Analyzed:	11/12/13

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Arsenic	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Barium	200	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Beryllium	ND	2.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cadmium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Chromium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cobalt	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Copper	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Lead	1.3 J	5.0	0.85	204944	11/11/13	EPA 3010A	EPA 6010B
Mercury	ND	0.20		204971	11/12/13	METHOD	EPA 7470A
Molybdenum	10	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Nickel	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Selenium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Silver	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Thallium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Vanadium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Zinc	ND	20		204944	11/11/13	EPA 3010A	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	250703	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	GGW-5	Diln Fac:	1.000
Lab ID:	250703-005	Sampled:	11/11/13
Matrix:	Filtrate	Received:	11/11/13
Units:	ug/L	Analyzed:	11/12/13

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Arsenic	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Barium	350	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Beryllium	ND	2.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cadmium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Chromium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cobalt	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Copper	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Lead	9.9	5.0	0.85	204944	11/11/13	EPA 3010A	EPA 6010B
Mercury	0.21	0.20		204971	11/12/13	METHOD	EPA 7470A
Molybdenum	6.6	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Nickel	6.4	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Selenium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Silver	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Thallium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Vanadium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Zinc	23	20		204944	11/11/13	EPA 3010A	EPA 6010B

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Dissolved California Title 22 Metals

Lab #:	250703	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	GGW-6	Diln Fac:	1.000
Lab ID:	250703-006	Sampled:	11/11/13
Matrix:	Filtrate	Received:	11/11/13
Units:	ug/L	Analyzed:	11/12/13

Analyte	Result	RL	MDL	Batch#	Prepared	Prep	Analysis
Antimony	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Arsenic	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Barium	94	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Beryllium	ND	2.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cadmium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Chromium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Cobalt	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Copper	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Lead	3.1 J	5.0	0.85	204944	11/11/13	EPA 3010A	EPA 6010B
Mercury	ND	0.20		204971	11/12/13	METHOD	EPA 7470A
Molybdenum	5.9	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Nickel	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Selenium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Silver	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Thallium	ND	10		204944	11/11/13	EPA 3010A	EPA 6010B
Vanadium	ND	5.0		204944	11/11/13	EPA 3010A	EPA 6010B
Zinc	ND	20		204944	11/11/13	EPA 3010A	EPA 6010B

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	250703	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC715684	Batch#:	204944
Matrix:	Filtrate	Prepared:	11/11/13
Units:	ug/L	Analyzed:	11/12/13

Analyte	Result	RL	MDL
Antimony	ND	10	
Arsenic	ND	5.0	
Barium	ND	5.0	
Beryllium	ND	2.0	
Cadmium	ND	5.0	
Chromium	ND	5.0	
Cobalt	ND	5.0	
Copper	ND	5.0	
Lead	2.1 J	5.0	0.85
Molybdenum	ND	5.0	
Nickel	ND	5.0	
Selenium	ND	10	
Silver	ND	5.0	
Thallium	ND	10	
Vanadium	ND	5.0	
Zinc	ND	20	

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	250703	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	204944
Units:	ug/L	Prepared:	11/11/13
Diln Fac:	1.000	Analyzed:	11/12/13

Type: BS Lab ID: QC715685

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	487.4	97	75-120
Arsenic	100.0	98.71	99	78-120
Barium	2,000	1,937	97	80-120
Beryllium	50.00	50.91	102	80-120
Cadmium	50.00	52.38	105	80-120
Chromium	200.0	194.0	97	80-120
Cobalt	500.0	478.0	96	79-120
Copper	250.0	232.8	93	77-120
Lead	100.0	98.37	98	78-120
Molybdenum	400.0	391.7	98	80-120
Nickel	500.0	487.6	98	80-120
Selenium	100.0	100.7	101	75-120
Silver	50.00	48.68	97	77-120
Thallium	100.0	103.9	104	79-120
Vanadium	500.0	489.5	98	80-120
Zinc	500.0	505.5	101	80-120

Type: BSD Lab ID: QC715686

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	490.2	98	75-120	1	20
Arsenic	100.0	100.8	101	78-120	2	22
Barium	2,000	1,970	98	80-120	2	20
Beryllium	50.00	51.73	103	80-120	2	20
Cadmium	50.00	52.50	105	80-120	0	20
Chromium	200.0	197.4	99	80-120	2	20
Cobalt	500.0	487.4	97	79-120	2	20
Copper	250.0	237.7	95	77-120	2	20
Lead	100.0	98.12	98	78-120	0	20
Molybdenum	400.0	393.8	98	80-120	1	20
Nickel	500.0	496.4	99	80-120	2	20
Selenium	100.0	102.5	102	75-120	2	25
Silver	50.00	48.45	97	77-120	0	20
Thallium	100.0	105.1	105	79-120	1	23
Vanadium	500.0	499.5	100	80-120	2	20
Zinc	500.0	514.9	103	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	250703	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	204944
MSS Lab ID:	250590-001	Sampled:	11/06/13
Matrix:	Filtrate	Received:	11/06/13
Units:	ug/L	Prepared:	11/11/13
Diln Fac:	1.000	Analyzed:	11/12/13

Type: MS Lab ID: QC715687

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.771	500.0	493.9	98	74-120
Arsenic	1.079	100.0	102.6	101	74-130
Barium	38.87	2,000	1,946	95	75-120
Beryllium	<0.1508	50.00	49.90	100	80-123
Cadmium	<0.2578	50.00	48.30	97	72-121
Chromium	<0.6859	200.0	187.5	94	74-120
Cobalt	0.6756	500.0	468.2	93	73-120
Copper	1.818	250.0	231.4	92	73-121
Lead	<0.8472	100.0	95.24	95	68-120
Molybdenum	9.208	400.0	398.0	97	78-120
Nickel	2.923	500.0	473.7	94	73-120
Selenium	<3.205	100.0	102.6	103	67-129
Silver	0.5238	50.00	42.81	85	62-124
Thallium	<2.337	100.0	93.54	94	67-120
Vanadium	4.632	500.0	482.4	96	80-120
Zinc	<2.612	500.0	503.0	101	72-123

Type: MSD Lab ID: QC715688

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	506.2	101	74-120	2	20
Arsenic	100.0	106.9	106	74-130	4	23
Barium	2,000	1,971	97	75-120	1	23
Beryllium	50.00	51.33	103	80-123	3	20
Cadmium	50.00	50.22	100	72-121	4	20
Chromium	200.0	193.4	97	74-120	3	20
Cobalt	500.0	480.3	96	73-120	3	20
Copper	250.0	239.2	95	73-121	3	21
Lead	100.0	97.15	97	68-120	2	24
Molybdenum	400.0	406.5	99	78-120	2	20
Nickel	500.0	490.7	98	73-120	4	20
Selenium	100.0	106.8	107	67-129	4	39
Silver	50.00	42.11	83	62-124	2	20
Thallium	100.0	97.18	97	67-120	4	24
Vanadium	500.0	497.1	98	80-120	3	20
Zinc	500.0	520.6	104	72-123	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	250703	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC715689	Batch#:	204944
Matrix:	Filtrate	Prepared:	11/11/13
Units:	ug/L	Analyzed:	11/12/13

Analyte	Result	RL	MDL
Antimony	ND	10	
Arsenic	ND	5.0	
Barium	ND	5.0	
Beryllium	ND	2.0	
Cadmium	ND	5.0	
Chromium	ND	5.0	
Cobalt	ND	5.0	
Copper	ND	5.0	
Lead	ND	5.0	0.85
Molybdenum	ND	5.0	
Nickel	ND	5.0	
Selenium	ND	10	
Silver	ND	5.0	
Thallium	ND	10	
Vanadium	ND	5.0	
Zinc	ND	20	

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	250703	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	204971
Matrix:	Water	Prepared:	11/12/13
Units:	ug/L	Analyzed:	11/12/13
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC715784	2.500	2.715	109	80-120		
BSD	QC715785	2.500	2.688	108	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	250703	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	204971
Field ID:	ZZZZZZZZZZ	Sampled:	10/29/13
MSS Lab ID:	250443-003	Received:	11/01/13
Matrix:	Water	Prepared:	11/12/13
Units:	ug/L	Analyzed:	11/12/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC715786	0.1436	2.500	2.716	103	62-124		
MSD	QC715787		2.500	2.723	103	62-124	0	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved California Title 22 Metals

Lab #:	250703	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	204971
Lab ID:	QC715789	Prepared:	11/12/13
Matrix:	Filtrate	Analyzed:	11/12/13
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 250732
ANALYTICAL REPORT

PES Environmental, Inc.	Project : 1386.001.01.003
1682 Novato Boulevard	Location : 6701 Shellmound, Emeryville
Novato, CA 94947	Level : II

Sample ID	Lab ID
SB14-11.5	250732-001
SB14-8.5	250732-002
SB14-3.5	250732-003
SB15-11.5	250732-004
SB15-7.5	250732-005
SB15-2.5	250732-006
SB16-10.5	250732-007
SB16-7.5	250732-008
SB16-2.5	250732-009
SB17-9.5	250732-010
SB17-5.0	250732-011
SB17-2.0	250732-012
SB18-10.0	250732-013
SB18-5.0	250732-014
SB18-2.0	250732-015

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: Will Rice Date: 12/02/2013

Will S Rice
Project Manager
will.rice@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**250732**
Client:	**PES Environmental, Inc.**
Project:	**1386.001.01.003**
Location:	**6701 Shellmound, Emeryville**
Request Date:	**11/15/13**
Samples Received:	**11/12/13**

This data package contains sample and QC results for fifteen soil samples, requested for the above referenced project on 11/15/13. The samples were received cold and intact. Revised 12/02/13 to include full list of PCB aroclors.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. High response was observed for Aroclor-1016 in the CCV analyzed 11/20/13 03:45; affected data was qualified with "b". No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A) Soil:
Low recovery was observed for barium in the MS of SB14-11.5 (lab # 250732-001); the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for lead in the MS/MSD of SB14-11.5 (lab # 250732-001); the BS/BSD were within limits, and the associated RPD was within limits. High recovery was observed for mercury in the MSD of SB14-3.5 (lab # 250732-003); the BS/BSD were within limits. High RPD was also observed for mercury in the MS/MSD of SB14-3.5 (lab # 250732-003); the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

Metals (EPA 6010B) TCLP Leachate:
No analytical problems were encountered.

Metals (EPA 6010B) WET Leachate:
No analytical problems were encountered.

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

250732

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C+T
SAMPLERS: M. Butters
JOB NUMBER: 138e.00.01.003
NAME / LOCATION: 6701 Shellmound, Emeryville
PROJECT MANAGER: K. Flory
RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	09	1000	SB14-11.5			X		1					
2				1015	SB14-8.5			X		1					
3				1030	SB14-3.5			X		1					
4				1100	SB15-11.5			X		1					
5				1110	SB15-7.5			X		1					
6				1120	SB15-2.5			X		1					
7				1130	SB16-10.5			X		1					
8				1140	SB16-7.5			X		1					
9				1150	SB16-2.5			X		1					
10				1040	SB17-1.5			X		1					
11				1045	SB17-5.0			X		1					
12				1050	SB17-2.0			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Field
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X

NOTES

Turn Around Time:

Page 1 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	970
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Tyna Karkar	11/12/13	1215
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME

METHOD OF SHIPMENT:

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PES Environmental, Inc.
Engineering & Environmental Services

250732

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T

SAMPLERS: M. Buttress

JOB NUMBER: 1386 001-01.003

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K. Flory

RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
13	13	11	07	1200	SB18-10.0			X		1					
14				1210	SB18-5.0			X		1					
15				1220	SB18-2.0			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)
							X
							X
							X

NOTES

Turn Around Time:

Page 2 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Tina Rakka	11/12/13	1205
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

intact on ice cold RL

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

250732

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C+T
JOB NUMBER: 1380.001.01.003
NAME / LOCATION: 6701 Shellmound, Emeryville
PROJECT MANAGER: K. Fay
SAMPLERS: U Butterer
RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sed/m't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	09	1000	SB14-11.5			X		1					
2				1015	SB14-8.5			X		1					
3				0730	SB14-3.5			X		1					
4				1000	SB15-11.5			X		1					
5				1110	SB15-7.5			X		1					
6				1120	SB15-2.5			X		1					
7				1130	SB16-10.5			X		1					
8				1140	SB16-7.5			X		1					
9				1150	SB16-2.5			X		1					
10				1040	SB17-9.5			X		1					
11				1045	SB17-5.0			X		1					
12				1050	SB17-2.0			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Hold	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B**	Title 22 Metals** by 6010B/7471A
								X	X				
								X		X			
								X			X		
								X				X	
								X					X
								X					X
								X					X
								X					X
								X					X
								X					X
								X					X
								Y					X
								Y					X

NOTES

Turn Around Time: *24-Hour TAT for Lead Analysis
**72-Hour TAT for remaining analyses

Page 1 of 2

CHAIN OF CUSTODY RECORD

	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)		11/8/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Uma Rarkia	11/12/13	1215
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

analyst on receipt pl

request received 11/12/13

PES Environmental, Inc.
Engineering & Environmental Services

250732

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T

SAMPLERS: M. Britcss

JOB NUMBER: 1386 001.01.003

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K Flory

RECORDER: MJ

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
13	13	11	07	1200	SB18-10.0			X							
14				1210	SB18-5.0			X		1					
15				1220	SB18-2.0			X		1					

ANALYSIS REQUESTED

	EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B*	Title 22 metals by 6010B/7471A**
13								X				X	
14								X				X	
15								X				X	

13
14
15

NOTES

Turn Around Time: * 24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 2 of 2

CHAIN OF CUSTODY RECORD

	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)		11/7/13	930
RELINQUISHED BY: (Signature)	Tina Rocha	11/12/13	1245
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

intact & ice cold RC

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

250732

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C+T
SAMPLERS: M Butterer
JOB NUMBER: 138.001.01.003
NAME / LOCATION: 6701 Shellmound, Emeryville
PROJECT MANAGER: K. Flynn
RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	09	1000	SB14-1.5			X		1					
2				1015	SB14-4.5			X		1					
3				0930	SB14-3.5			X		1					
4				1000	SB15-1.5			X		1					
5				1110	SB15-7.5			X		1					
6				1120	SB15-2.5			X		1					
7				1130	SB16-10.5			X		1					
8				1140	SB16-7.5			X		1					
9				1150	SB16-2.5			X		1					
10				1040	SB17-9.5			X		1					
11				1045	SB17-5.0			X		1					
12				1050	SB17-2.0			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Hold	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B**	Title 22 Metals** by 6010B/7471A	STLC Lead	TCLP Lead
								X				⊗			
								X				⊗			
								X			⊗	⊗			
								X				⊗			
								X					⊗		
								X				⊗			
								X					⊗		
								X				⊗		X	X
								X				⊗			
								X				⊗			
								X				⊗			
								X					⊗		

NOTES

Turn Around Time: * 24-Hour TAT for Lead Analysis
** 72-Hour TAT for remaining analyses

Page 1 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Lina Rarkia	11/12/13	1215
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME

METHOD OF SHIPMENT:

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

Received 11/20

Received 11/20

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 250732 Date Received 11/12/13 Number of coolers 2
Client PES Project 6701 SHELLMOUND (1386.001.01.003)

Date Opened 11/12/13 By (print) YR (sign) Tina Ravka
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.8, 5.1

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) 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? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

Rev 10, 11/11

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Field ID:	SB14-3.5	Batch#:	205200
Matrix:	Soil	Sampled:	11/09/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Diln Fac:	1.000	Analyzed:	11/19/13

Type: SAMPLE Lab ID: 250732-003

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	13	12
Aroclor-1262	ND	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	95	66-142
Decachlorobiphenyl	74	43-139

Type: BLANK Lab ID: QC716687

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12
Aroclor-1262	ND	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	97	66-142
Decachlorobiphenyl	78	43-139

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC716688	Batch#:	205200
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	167.8	177.2	106	64-143
Aroclor-1260	167.8	175.0	104	58-146

Surrogate	%REC	Limits
TCMX	102	66-142
Decachlorobiphenyl	83	43-139

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Field ID:	SB14-3.5	Batch#:	205200
MSS Lab ID:	250732-003	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Type: MS Lab ID: QC716689

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.942	164.1	172.5 b	105	58-155
Aroclor-1260	12.74	164.1	214.3	123	35-159

Surrogate	%REC	Limits
TCMX	110	66-142
Decachlorobiphenyl	83	43-139

Type: MSD Lab ID: QC716690

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.7	176.6 b	106	58-155	1	44
Aroclor-1260	166.7	192.9	108	35-159	12	53

Surrogate	%REC	Limits
TCMX	106	66-142
Decachlorobiphenyl	84	43-139

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205158
Matrix:	Soil	Sampled:	11/09/13
Units:	mg/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/16/13
Diln Fac:	1.000	Analyzed:	11/18/13

Field ID	Type	Lab ID	Result	RL
SB14-11.5	SAMPLE	250732-001	250	0.26
SB14-8.5	SAMPLE	250732-002	100	0.24
SB15-11.5	SAMPLE	250732-004	130	0.23
SB15-2.5	SAMPLE	250732-006	8.2	0.26
SB16-7.5	SAMPLE	250732-008	280	0.27
SB16-2.5	SAMPLE	250732-009	19	0.24
SB17-9.5	SAMPLE	250732-010	150	0.25
SB17-5.0	SAMPLE	250732-011	27	0.24
SB18-5.0	SAMPLE	250732-014	34	0.27
SB18-2.0	SAMPLE	250732-015	30	0.26
	BLANK	QC716520	ND	0.25

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250732	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB14-3.5	Basis:	as received
Lab ID:	250732-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/09/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.46	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	7.7	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Barium	170	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.54	0.093	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.67	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	140	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	19	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Copper	33	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Lead	11	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.060	0.018	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	ND	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	190	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	4.5	0.46	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.46	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	53	0.23	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	63	0.93	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250732	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB15-7.5	Basis:	as received
Lab ID:	250732-005	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.8	0.50	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	4.6	0.25	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Barium	250	0.25	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.27	0.099	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	13	0.25	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	43	0.25	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	6.6	0.25	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Copper	450	0.26	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Lead	870	2.5	10.00	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.14	0.015	1.000	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	0.43	0.25	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	48	0.25	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	40	2.5	10.00	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	1,700	9.9	10.00	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250732	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB16-10.5	Basis:	as received
Lab ID:	250732-007	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/09/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	1.4	0.52	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	11	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Barium	180	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.34	0.10	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.89	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	53	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	6.7	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Copper	51	0.27	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Lead	210	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.24	0.018	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	ND	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	34	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	3.4	0.52	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.52	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	41	0.26	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	510	1.0	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250732	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB17-2.0	Basis:	as received
Lab ID:	250732-012	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/09/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.47	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	7.8	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Barium	150	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.46	0.094	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.61	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	41	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	12	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Copper	32	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Lead	54	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.12	0.015	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	ND	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	43	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.47	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.47	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	53	0.24	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	87	0.94	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250732	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB18-10.0	Basis:	as received
Lab ID:	250732-013	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.48	1.000	205158	11/16/13	11/20/13	EPA 3050B	EPA 6010B
Arsenic	49	0.24	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Barium	640	24	100.0	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.47	0.096	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	5.5	0.24	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	43	0.24	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	13	0.24	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Copper	450	24	100.0	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Lead	650	24	100.0	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.41	0.015	1.000	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	5.1	0.24	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	190	0.24	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	2.8	0.48	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.24	1.000	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.48	1.000	205158	11/16/13	11/20/13	EPA 3050B	EPA 6010B
Vanadium	11,000	24	100.0	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	2,500	96	100.0	205158	11/16/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716520	Batch#:	205158
Matrix:	Soil	Prepared:	11/16/13
Units:	mg/Kg	Analyzed:	11/18/13

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	SB14-11.5	Batch#:	205158
MSS Lab ID:	250732-001	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/16/13
Basis:	as received	Analyzed:	11/18/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC716521		100.0	98.58	99	80-120		
BSD	QC716522		100.0	99.71	100	80-120	1	22
MS	QC716523	248.3	96.15	387.3	145 *	52-120		
MSD	QC716524		101.0	391.1	141 *	52-120	0	51

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	205158
Units:	mg/Kg	Prepared:	11/16/13
Diln Fac:	1.000	Analyzed:	11/18/13

Type: BS Lab ID: QC716521

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	98.81	99	80-120
Arsenic	50.00	49.95	100	80-120
Barium	100.0	99.76	100	80-120
Beryllium	2.500	2.365	95	80-120
Cadmium	10.00	10.21	102	80-120
Chromium	100.0	98.54	99	80-120
Cobalt	25.00	24.83	99	80-120
Copper	12.50	12.41	99	80-120
Lead	100.0	98.58	99	80-120
Molybdenum	20.00	19.97	100	80-120
Nickel	25.00	25.16	101	80-120
Selenium	50.00	49.54	99	80-120
Silver	10.00	9.609	96	80-120
Thallium	50.00	49.15	98	80-120
Vanadium	25.00	24.52	98	80-120
Zinc	25.00	25.11	100	80-120

Type: BSD Lab ID: QC716522

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.3	100	80-120	1	20
Arsenic	50.00	50.63	101	80-120	1	20
Barium	100.0	101.0	101	80-120	1	20
Beryllium	2.500	2.408	96	80-120	2	20
Cadmium	10.00	10.32	103	80-120	1	20
Chromium	100.0	99.41	99	80-120	1	20
Cobalt	25.00	24.94	100	80-120	0	20
Copper	12.50	12.55	100	80-120	1	20
Lead	100.0	99.71	100	80-120	1	22
Molybdenum	20.00	20.22	101	80-120	1	20
Nickel	25.00	25.35	101	80-120	1	20
Selenium	50.00	50.15	100	80-120	1	20
Silver	10.00	9.637	96	80-120	0	20
Thallium	50.00	49.63	99	80-120	1	20
Vanadium	25.00	24.70	99	80-120	1	20
Zinc	25.00	25.40	102	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Field ID:	SB14-11.5	Batch#:	205158
MSS Lab ID:	250732-001	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/16/13
Basis:	as received	Analyzed:	11/18/13
Diln Fac:	1.000		

Type: MS Lab ID: QC716523

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	1.324	96.15	52.48	53	8-120
Arsenic	48.71	48.08	105.3	118	71-121
Barium	215.4	96.15	255.3	41 *	48-133
Beryllium	0.2371	2.404	2.327	87	78-120
Cadmium	1.702	9.615	10.12	88	69-120
Chromium	60.76	96.15	162.6	106	60-122
Cobalt	8.581	24.04	28.11	81	61-120
Copper	881.1	12.02	1,272 >LR	3249 NM	44-151
Lead	248.3	96.15	387.3	145 *	52-120
Molybdenum	2.395	19.23	19.29	88	67-120
Nickel	45.56	24.04	65.84	84	45-134
Selenium	<0.1492	48.08	44.75	93	67-120
Silver	<0.07628	9.615	7.427	77	66-120
Thallium	<0.1664	48.08	37.40	78	62-120
Vanadium	32.29	24.04	47.24	62	55-137
Zinc	724.8	24.04	708.6 >LR	-67 NM	38-146

Type: MSD Lab ID: QC716524

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	101.0	56.99	55	8-120	3	29
Arsenic	50.51	103.5	108	71-121	4	34
Barium	101.0	264.1	48	48-133	2	45
Beryllium	2.525	2.494	89	78-120	2	20
Cadmium	10.10	10.68	89	69-120	1	23
Chromium	101.0	154.7	93	60-122	8	34
Cobalt	25.25	29.95	85	61-120	3	37
Copper	12.63	1,065 >LR	1453 NM	44-151	NC	35
Lead	101.0	391.1	141 *	52-120	0	51
Molybdenum	20.20	20.18	88	67-120	0	20
Nickel	25.25	65.95	81	45-134	2	38
Selenium	50.51	49.04	97	67-120	4	27
Silver	10.10	8.217	81	66-120	5	30
Thallium	50.51	40.79	81	62-120	4	20
Vanadium	25.25	50.94	74	55-137	5	30
Zinc	25.25	676.8 >LR	-190 NM	38-146	NC	36

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	205271
Lab ID:	QC716952	Prepared:	11/20/13
Matrix:	Soil	Analyzed:	11/20/13
Units:	mg/Kg		

Result	RL
ND	0.017

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	205271
Matrix:	Soil	Prepared:	11/20/13
Units:	mg/Kg	Analyzed:	11/20/13
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC716953	0.2083	0.2012	97	80-120		
BSD	QC716954	0.2083	0.2047	98	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	SB14-3.5	Batch#:	205271
MSS Lab ID:	250732-003	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/20/13
Basis:	as received	Analyzed:	11/20/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC716955	0.06011	0.2016	0.2371	88	72-135		
MSD	QC716956		0.2049	0.3893	161 *	72-135	47 *	42

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205380
Field ID:	SB16-7.5	Sampled:	11/09/13
Matrix:	TCLP Leachate	Received:	11/12/13
Units:	ug/L	Prepared:	11/21/13
Diln Fac:	10.00	Analyzed:	11/22/13

Type	Lab ID	Result	RL
SAMPLE	250732-008	1,800	50
BLANK	QC717362	ND	50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205380
Field ID:	SB16-7.5	Sampled:	11/09/13
MSS Lab ID:	250732-008	Received:	11/12/13
Matrix:	TCLP Leachate	Prepared:	11/21/13
Units:	ug/L	Analyzed:	11/22/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC717363		2,000	2,062	103	78-120			1.000
BSD	QC717364		2,000	2,056	103	78-120	0	20	1.000
MS	QC717365	1,840	2,000	4,024	109	68-120			10.00
MSD	QC717366		2,000	4,042	110	68-120	0	24	10.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	WET
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205421
Field ID:	SB16-7.5	Sampled:	11/09/13
Matrix:	WET Leachate	Received:	11/12/13
Units:	ug/L	Prepared:	11/22/13
Diln Fac:	10.00	Analyzed:	11/22/13

Type	Lab ID	Result	RL
SAMPLE	250732-008	14,000	250
BLANK	QC717527	ND	250

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250732	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	WET
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205421
Field ID:	ZZZZZZZZZZ	Sampled:	11/07/13
MSS Lab ID:	250978-001	Received:	11/07/13
Matrix:	WET Leachate	Prepared:	11/22/13
Units:	ug/L	Analyzed:	11/22/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC717528		2,000	1,930	97	78-120			1.000
BSD	QC717529		2,000	1,961	98	78-120	2	20	1.000
MS	QC717530	13,640	10,000	23,020	94	68-120			10.00
MSD	QC717531		10,000	22,360	87	68-120	3	24	10.00

RPD= Relative Percent Difference


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 250733
ANALYTICAL REPORT

PES Environmental, Inc.
1682 Novato Boulevard
Novato, CA 94947

Project : 1386.001.01.003
Location : 6701 Shellmound, Emeryville
Level : II

Sample ID	Lab ID
SB1-11.75	250733-001
SB1-1.0	250733-002
SB1-5.5	250733-003
SB2-10.75	250733-004
SB2-7.5	250733-005
SB2-4.0	250733-006
SB3-11.0	250733-007
SB3-7.5	250733-008
SB3-1.5	250733-009
SB4-10.0	250733-010
SB4-5.0	250733-011
SB4-1.5	250733-012
SB5-11.5	250733-013
SB5-8.0	250733-014
SB5-3.0	250733-015
SB6-10.0	250733-016
SB6-8.0	250733-017
SB6-4.0	250733-018

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: Will Rice Date: 11/25/2013

Will S Rice
Project Manager
will.rice@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**250733**
Client:	**PES Environmental, Inc.**
Project:	**1386.001.01.003**
Location:	**6701 Shellmound, Emeryville**
Request Date:	**11/15/13**
Samples Received:	**11/12/13**

This data package contains sample and QC results for eighteen soil samples, requested for the above referenced project on 11/15/13. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
Low recoveries were observed for pyrene in the MS/MSD of SB2-7.5 (lab # 250733-005); the LCS was within limits, and the associated RPD was within limits. SB2-7.5 (lab # 250733-005) and SB6-4.0 (lab # 250733-018) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. High response was observed for Aroclor-1016 in the CCV analyzed 11/20/13 03:45; affected data was qualified with "b". Low surrogate recoveries were observed for decachlorobiphenyl in a number of samples; the corresponding TCMX surrogate recoveries were within limits. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A) Soil:
Low recoveries were observed for barium and beryllium in the MS/MSD of SB4-1.5 (lab # 250733-012); the BS/BSD were within limits, and the associated RPDs were within limits. High recovery was observed for copper in the MS of SB4-1.5 (lab # 250733-012); the BS/BSD were within limits, and the associated RPD was within limits. High recovery was observed for mercury in the MSD of SB14-3.5 (lab # 250732-003); the BS/BSD were within limits. High RPD was also observed for mercury in the MS/MSD of SB14-3.5 (lab # 250732-003); the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

Metals (EPA 6010B) TCLP Leachate:
No analytical problems were encountered.

Metals (EPA 6010B) WET Leachate:
No analytical problems were encountered.

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

250732

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T
SAMPLERS: M. Bottoms
JOB NUMBER: 1386.001.003
NAME / LOCATION: 6701 Shellmound, Emeryville
PROJECT MANAGER: K. Flory
RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	07	0930	SB1-11.75			X		1					
2				0945	SB1-1.0			X		1					
3				0950	SB1-5.5			X		1					
4				1130	SB2-10.75			X		1					
5				1140	SB2-7.5			X		1					
6				1150	SB2-4.0			X		1					
7				1315	SB3-11.0			X		1					
8				1320	SB3-7.5			X		1					
9				1330	SB3-1.5			X		1					
10				1430	SB4-10.0			X		1					
11				1445	SB4-5.0			X		1					
12				1500	SB4-1.5			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	HOLD
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X

NOTES

Turn Around Time:

Page 1 of 2

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE 11/12/13 TIME 930
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature) Tina Rourke	DATE 11/12/13 TIME 1245
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE TIME
DISPATCHED BY: (Signature)	DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

Intact on ice cold RC

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

250-732

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C+T

SAMPLERS: M. Butters

JOB NUMBER: 1386.001.01.003

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K. Flory

RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
13	13	11	07	1600	SB5-11.5			X		1					
14				1610	SB5-8.0			X		1					
15				1615	SB5-3.0			X		1					
16				1630	SB6-10.0			X		1					
17				1645	SB6-8.0			X		1					
18				1700	SB6-4.0			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	HOLD
								X
								X
								X
								X
								X
								X

NOTES

Turn Around Time:

Page 2 of 2

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE 11/12/13	TIME 930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Silvia Rankin	DATE 11/12/13	TIME 1245
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

start on ice cold RC

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

250732

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T

SAMPLERS: M Sullivan

JOB NUMBER: 138.0001.003

NAME / LOCATION: 5701 Redwood Emeryville

PROJECT MANAGER: K Fleming

RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	12	0730	SB1-11.75			X		1					
2				0945	SB1-1.0			X		1					
3				0750	SB1-5.5			X		1					
4				1130	SB2-10.75			X		1					
5				1140	SB2-7.5			X		1					
6				1150	SB2-4.0			X		1					
7				1315	SB3-11.0			X		1					
8				1320	SB3-7.5			X		1					
9				1530	SB3-1.5			X		1					
10				1430	SB4-10.0			X		1					
11				1445	SB4-5.0			X		1					
12				1500	SB4-1.5			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Hold	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B*	Title 22 metals by 6010B/7471A**
								X				⊗	
								X					⊗
								X				⊗	
								X				⊗	
								X	⊗	⊗	⊗	⊗	
								X	⊗	⊗	⊗		⊗
								X				⊗	
								X				⊗	
								X					⊗
								X				⊗	
								X				⊗	
								X				⊗	

Analysis Requested
Turnaround Time
Received 11/5/13

NOTES

Turn Around Time: * 24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 1 of 2

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	11/7/13	930
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature) Tina Ronkin	11/12/13	1245
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature)	DATE / TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:				

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

Must on re cold RC

PES Environmental, Inc.
Engineering & Environmental Services

250-732

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C+T

JOB NUMBER: 1386.001.01.003

NAME / LOCATION: 6701 Shellmound Emeryville

PROJECT MANAGER: K. Flory

SAMPLERS: M. Butters

RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
13	13	11	07	1600	SB5-11.5			X		1					
14				1610	SB5-8.0			X		1					
15				1615	SB5-3.0			X		1					
16				1630	SB6-10.0			X		1					
17				1645	SB6-8.0			X		1					
18				1700	SB6-4.0			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	
							X	Hold
							X	VOCs by 8260B**
							X	SVOCs by 8270C**
							X	PCBs by 8082**
							X	Lead by 6010B**
							X	TTLC Metals** by 6010B/7471A

NOTES

Turn Around Time: *24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 2 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Silvia Rankin	11/12/13	1245
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

start on ice cold PC

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

250732

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T

SAMPLERS: M Bottorff

JOB NUMBER: 138 ccinl.003

NAME / LOCATION: 6701 Shellmound Emeryville

PROJECT MANAGER: K Fahey

RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	07	0930	SB1-1'-7.5			X		1					
2				0945	SB1-1.0			X		1					
3				0950	SB1-5.5			X		1					
4				1130	SB2-10.5			X		1					
5				1140	SB2-7.5			X		1					
6				1150	SB2-4.0			X		1					
7				1315	SB3-11.0			X		1					
8				1320	SB3-7.5			X		1					
9				1330	SB3-1.5			X		1					
10				1430	SB4-10.0			X		1					
11				1445	SB4-5.0			X		1					
12				1500	SB4-1.5			X		1					

ANALYSIS REQUESTED *

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	HOLD	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B*	Title 22 metals** by 6010B/7471A	STLC Lead	TCLP Lead
							X					⊗			X
							X						⊗		
							X					⊗			X
							X					⊗		X	
							X		⊗	⊗	⊗	⊗			
							X		⊗	⊗	⊗	⊗			
							X					⊗		X	X
							X					⊗			
							X					⊗		X	X
							X					⊗			
							X					⊗			X
							X					⊗		X	

received 11/20

Received 11/26

NOTES

Turn Around Time: * 24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 1 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Ilinca Ronica	11/12/13	1345
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

waiting on ice cold RC

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

250-732

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C+T
JOB NUMBER: 1386.001.01.003
NAME / LOCATION: 6701 Hollmond, Emeryville
PROJECT MANAGER: K. Flory
SAMPLERS: M. Butzer
RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
13	13	11	07	1600	SB5-11.5			X		1					
14				1610	SB5-8.0			X		1					
15				1615	SB5-3.0			X		1					
16				1630	SB6-10.0			X		1					
17				1645	SB6-8.0			X		1					
18				1700	SB6-4.0			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Hold	VOCs by 8260B ***	SVOCs by 8270C **	PCBs by 8082 **	Lead by 6010B **	TPH 22 Metals ** by 6010B/7471A	STLC Lead	TCLP Lead
								X							X
								X							
								X						X	X
								X							
								X							
								X							

received 11/12

received 11/12

NOTES

Turn Around Time: * 24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 2 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Tina Rankin	11/12/13	1245
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)		
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

start on ice cold RC

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 250733 Date Received 11/12/13 Number of coolers 2
Client PES Project 6701 SHELLMOUND (1386.001.01.003)

Date Opened 11/12/13 By (print) IR (sign) Tina Ranica
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.8, 5.1

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) 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? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

Rev 10, 11/11

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1386.001.01.003	Analysis:	EPA 8260B
Field ID:	SB2-7.5	Diln Fac:	0.9488
Lab ID:	250733-005	Batch#:	205234
Matrix:	Soil	Sampled:	11/07/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Analyzed:	11/19/13

Analyte	Result	RL
Freon 12	ND	9.5
Chloromethane	ND	9.5
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Chloroethane	ND	9.5
Trichlorofluoromethane	ND	4.7
Acetone	35	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1386.001.01.003	Analysis:	EPA 8260B
Field ID:	SB2-7.5	Diln Fac:	0.9488
Lab ID:	250733-005	Batch#:	205234
Matrix:	Soil	Sampled:	11/07/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Analyzed:	11/19/13

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-124
1,2-Dichloroethane-d4	110	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	97	79-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1386.001.01.003	Analysis:	EPA 8260B
Field ID:	SB2-4.0	Diln Fac:	0.9940
Lab ID:	250733-006	Batch#:	205234
Matrix:	Soil	Sampled:	11/07/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Analyzed:	11/19/13

Analyte	Result	RL
Freon 12	ND	9.9
Chloromethane	ND	9.9
Vinyl Chloride	ND	9.9
Bromomethane	ND	9.9
Chloroethane	ND	9.9
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	9.9
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	9.9
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	9.9
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1386.001.01.003	Analysis:	EPA 8260B
Field ID:	SB2-4.0	Diln Fac:	0.9940
Lab ID:	250733-006	Batch#:	205234
Matrix:	Soil	Sampled:	11/07/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Analyzed:	11/19/13

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-124
1,2-Dichloroethane-d4	112	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	101	79-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1386.001.01.003	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716823	Batch#:	205234
Matrix:	Soil	Analyzed:	11/19/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1386.001.01.003	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716823	Batch#:	205234
Matrix:	Soil	Analyzed:	11/19/13
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	101	79-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1386.001.01.003	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	205234
Units:	ug/Kg	Analyzed:	11/19/13
Diln Fac:	1.000		

Type: BS Lab ID: QC716824

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	22.55	113	67-132
Benzene	20.00	22.53	113	77-126
Trichloroethene	20.00	23.07	115	76-127
Toluene	20.00	22.86	114	76-124
Chlorobenzene	20.00	23.44	117	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	108	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	103	79-127

Type: BSD Lab ID: QC716825

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	19.71	99	67-132	13	27
Benzene	20.00	20.25	101	77-126	11	20
Trichloroethene	20.00	19.68	98	76-127	16	22
Toluene	20.00	20.66	103	76-124	10	26
Chlorobenzene	20.00	20.17	101	76-120	15	21

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	99	79-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB2-7.5	Batch#:	205211
Lab ID:	250733-005	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	2.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	660
Phenol	ND	660
bis(2-Chloroethyl)ether	ND	660
2-Chlorophenol	ND	660
1,3-Dichlorobenzene	ND	660
1,4-Dichlorobenzene	ND	660
Benzyl alcohol	ND	660
1,2-Dichlorobenzene	ND	660
2-Methylphenol	ND	660
bis(2-Chloroisopropyl) ether	ND	660
4-Methylphenol	ND	660
N-Nitroso-di-n-propylamine	ND	660
Hexachloroethane	ND	660
Nitrobenzene	ND	660
Isophorone	ND	660
2-Nitrophenol	ND	1,300
2,4-Dimethylphenol	ND	660
Benzoic acid	ND	3,300
bis(2-Chloroethoxy)methane	ND	660
2,4-Dichlorophenol	ND	660
1,2,4-Trichlorobenzene	ND	660
Naphthalene	ND	130
4-Chloroaniline	ND	660
Hexachlorobutadiene	ND	660
4-Chloro-3-methylphenol	ND	660
2-Methylnaphthalene	ND	130
Hexachlorocyclopentadiene	ND	1,300
2,4,6-Trichlorophenol	ND	660
2,4,5-Trichlorophenol	ND	660
2-Chloronaphthalene	ND	660
2-Nitroaniline	ND	1,300
Dimethylphthalate	ND	660
Acenaphthylene	270	130
2,6-Dinitrotoluene	ND	660
3-Nitroaniline	ND	1,300
Acenaphthene	ND	130
2,4-Dinitrophenol	ND	1,300
4-Nitrophenol	ND	1,300
Dibenzofuran	ND	660
2,4-Dinitrotoluene	ND	660
Diethylphthalate	ND	660
Fluorene	210	130
4-Chlorophenyl-phenylether	ND	660
4-Nitroaniline	ND	1,300
4,6-Dinitro-2-methylphenol	ND	1,300
N-Nitrosodiphenylamine	ND	660
Azobenzene	ND	660
4-Bromophenyl-phenylether	ND	660
Hexachlorobenzene	ND	660
Pentachlorophenol	ND	1,300
Phenanthrene	2,400	130
Anthracene	630	130
Di-n-butylphthalate	ND	660

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB2-7.5	Batch#:	205211
Lab ID:	250733-005	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	2.000		

Analyte	Result	RL
Fluoranthene	2,100	130
Pyrene	2,300	130
Butylbenzylphthalate	ND	660
3,3'-Dichlorobenzidine	ND	1,300
Benzo(a)anthracene	1,200	130
Chrysene	1,400	130
bis(2-Ethylhexyl)phthalate	ND	660
Di-n-octylphthalate	ND	660
Benzo(b)fluoranthene	970	130
Benzo(k)fluoranthene	360	130
Benzo(a)pyrene	970	130
Indeno(1,2,3-cd)pyrene	340	130
Dibenz(a,h)anthracene	ND	130
Benzo(g,h,i)perylene	330	130

Surrogate	%REC	Limits
2-Fluorophenol	64	35-120
Phenol-d5	65	39-120
2,4,6-Tribromophenol	89	39-120
Nitrobenzene-d5	73	49-120
2-Fluorobiphenyl	99	52-120
Terphenyl-d14	86	48-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB2-4.0	Batch#:	205211
Lab ID:	250733-006	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	67
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	67
Hexachlorocyclopentadiene	ND	670
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	67
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	67
2,4-Dinitrophenol	ND	670
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	67
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	670
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	67
Anthracene	ND	67
Di-n-butylphthalate	ND	330

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB2-4.0	Batch#:	205211
Lab ID:	250733-006	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Analyte	Result	RL
Fluoranthene	ND	67
Pyrene	ND	67
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67

Surrogate	%REC	Limits
2-Fluorophenol	52	35-120
Phenol-d5	54	39-120
2,4,6-Tribromophenol	76	39-120
Nitrobenzene-d5	57	49-120
2-Fluorobiphenyl	78	52-120
Terphenyl-d14	72	48-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB6-10.0	Batch#:	205211
Lab ID:	250733-016	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	67
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	67
Hexachlorocyclopentadiene	ND	670
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	67
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	67
2,4-Dinitrophenol	ND	670
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	67
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	670
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	67
Anthracene	ND	67
Di-n-butylphthalate	ND	330

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB6-10.0	Batch#:	205211
Lab ID:	250733-016	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Analyte	Result	RL
Fluoranthene	ND	67
Pyrene	ND	67
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67

Surrogate	%REC	Limits
2-Fluorophenol	49	35-120
Phenol-d5	52	39-120
2,4,6-Tribromophenol	77	39-120
Nitrobenzene-d5	54	49-120
2-Fluorobiphenyl	75	52-120
Terphenyl-d14	68	48-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB6-4.0	Batch#:	205211
Lab ID:	250733-018	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	10.00		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	3,300
Phenol	ND	3,300
bis(2-Chloroethyl)ether	ND	3,300
2-Chlorophenol	ND	3,300
1,3-Dichlorobenzene	ND	3,300
1,4-Dichlorobenzene	ND	3,300
Benzyl alcohol	ND	3,300
1,2-Dichlorobenzene	ND	3,300
2-Methylphenol	ND	3,300
bis(2-Chloroisopropyl) ether	ND	3,300
4-Methylphenol	ND	3,300
N-Nitroso-di-n-propylamine	ND	3,300
Hexachloroethane	ND	3,300
Nitrobenzene	ND	3,300
Isophorone	ND	3,300
2-Nitrophenol	ND	6,600
2,4-Dimethylphenol	ND	3,300
Benzoic acid	ND	17,000
bis(2-Chloroethoxy)methane	ND	3,300
2,4-Dichlorophenol	ND	3,300
1,2,4-Trichlorobenzene	ND	3,300
Naphthalene	2,900	660
4-Chloroaniline	ND	3,300
Hexachlorobutadiene	ND	3,300
4-Chloro-3-methylphenol	ND	3,300
2-Methylnaphthalene	ND	660
Hexachlorocyclopentadiene	ND	6,600
2,4,6-Trichlorophenol	ND	3,300
2,4,5-Trichlorophenol	ND	3,300
2-Chloronaphthalene	ND	3,300
2-Nitroaniline	ND	6,600
Dimethylphthalate	ND	3,300
Acenaphthylene	ND	660
2,6-Dinitrotoluene	ND	3,300
3-Nitroaniline	ND	6,600
Acenaphthene	ND	660
2,4-Dinitrophenol	ND	6,600
4-Nitrophenol	ND	6,600
Dibenzofuran	ND	3,300
2,4-Dinitrotoluene	ND	3,300
Diethylphthalate	ND	3,300
Fluorene	810	660
4-Chlorophenyl-phenylether	ND	3,300
4-Nitroaniline	ND	6,600
4,6-Dinitro-2-methylphenol	ND	6,600
N-Nitrosodiphenylamine	ND	3,300
Azobenzene	ND	3,300
4-Bromophenyl-phenylether	ND	3,300
Hexachlorobenzene	ND	3,300
Pentachlorophenol	ND	6,600
Phenanthrene	5,500	660
Anthracene	1,200	660

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB6-4.0	Batch#:	205211
Lab ID:	250733-018	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	10.00		

Analyte	Result	RL
Di-n-butylphthalate	ND	3,300
Fluoranthene	4,400	660
Pyrene	4,500	660
Butylbenzylphthalate	ND	3,300
3,3'-Dichlorobenzidine	ND	6,600
Benzo(a)anthracene	2,400	660
Chrysene	2,900	660
bis(2-Ethylhexyl)phthalate	ND	3,300
Di-n-octylphthalate	ND	3,300
Benzo(b)fluoranthene	3,700	660
Benzo(k)fluoranthene	1,500	660
Benzo(a)pyrene	3,000	660
Indeno(1,2,3-cd)pyrene	1,300	660
Dibenz(a,h)anthracene	ND	660
Benzo(g,h,i)perylene	1,400	660

Surrogate	%REC	Limits
2-Fluorophenol	DO	35-120
Phenol-d5	DO	39-120
2,4,6-Tribromophenol	DO	39-120
Nitrobenzene-d5	DO	49-120
2-Fluorobiphenyl	DO	52-120
Terphenyl-d14	DO	48-120

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716731	Batch#:	205211
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
Fluoranthene	ND	66

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716731	Batch#:	205211
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Result	RL
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	56	35-120
Phenol-d5	57	39-120
2,4,6-Tribromophenol	68	39-120
Nitrobenzene-d5	61	49-120
2-Fluorobiphenyl	80	52-120
Terphenyl-d14	81	48-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC716732	Batch#:	205211
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Spiked	Result	%REC	Limits
Phenol	2,653	2,176	82	48-120
2-Chlorophenol	2,653	2,098	79	51-120
1,4-Dichlorobenzene	2,653	2,122	80	54-120
N-Nitroso-di-n-propylamine	2,653	1,892	71	35-120
1,2,4-Trichlorobenzene	2,653	2,403	91	56-120
4-Chloro-3-methylphenol	2,653	2,304	87	61-120
Acenaphthene	995.0	828.6	83	57-120
4-Nitrophenol	2,653	2,350	89	54-120
2,4-Dinitrotoluene	2,653	2,427	91	58-120
Pentachlorophenol	2,653	2,139	81	42-120
Pyrene	995.0	988.8	99	60-120

Surrogate	%REC	Limits
2-Fluorophenol	75	35-120
Phenol-d5	78	39-120
2,4,6-Tribromophenol	100	39-120
Nitrobenzene-d5	74	49-120
2-Fluorobiphenyl	80	52-120
Terphenyl-d14	86	48-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB2-7.5	Batch#:	205211
MSS Lab ID:	250733-005	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	2.000		

Type: MS Lab ID: QC716733

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<13.95	2,664	2,094	79	51-120
2-Chlorophenol	<14.52	2,664	1,998	75	52-120
1,4-Dichlorobenzene	<15.20	2,664	1,811	68	55-120
N-Nitroso-di-n-propylamine	<15.52	2,664	2,062	77	45-120
1,2,4-Trichlorobenzene	<15.58	2,664	2,321	87	57-120
4-Chloro-3-methylphenol	<16.45	2,664	2,240	84	60-120
Acenaphthene	35.29	999.0	800.5	77	58-120
4-Nitrophenol	<140.7	2,664	2,158	81	49-120
2,4-Dinitrotoluene	<18.98	2,664	2,248	84	58-120
Pentachlorophenol	<252.4	2,664	1,753	66	23-120
Pyrene	2,286	999.0	1,257	-103 *	53-122

Surrogate	%REC	Limits
2-Fluorophenol	63	35-120
Phenol-d5	69	39-120
2,4,6-Tribromophenol	86	39-120
Nitrobenzene-d5	69	49-120
2-Fluorobiphenyl	82	52-120
Terphenyl-d14	81	48-120

Type: MSD Lab ID: QC716734

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,704	2,032	75	51-120	4	32
2-Chlorophenol	2,704	1,967	73	52-120	3	32
1,4-Dichlorobenzene	2,704	1,622	60	55-120	12	35
N-Nitroso-di-n-propylamine	2,704	1,998	74	45-120	5	35
1,2,4-Trichlorobenzene	2,704	2,191	81	57-120	7	31
4-Chloro-3-methylphenol	2,704	2,210	82	60-120	3	30
Acenaphthene	1,014	768.9	72	58-120	5	36
4-Nitrophenol	2,704	2,054	76	49-120	6	39
2,4-Dinitrotoluene	2,704	2,137	79	58-120	7	28
Pentachlorophenol	2,704	1,293	48	23-120	32	47
Pyrene	1,014	1,344	-93 *	53-122	6	44

Surrogate	%REC	Limits
2-Fluorophenol	63	35-120
Phenol-d5	69	39-120
2,4,6-Tribromophenol	79	39-120
Nitrobenzene-d5	67	49-120
2-Fluorobiphenyl	79	52-120
Terphenyl-d14	80	48-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/07/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Field ID:	SB5-11.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250733-013		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12
Aroclor-1262	140	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	113	66-142
Decachlorobiphenyl	30 *	43-139

Field ID:	SB5-8.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250733-014		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12
Aroclor-1262	180	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	96	66-142
Decachlorobiphenyl	42 *	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/07/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Field ID:	SB5-3.0	Diln Fac:	20.00
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250733-015		

Analyte	Result	RL
Aroclor-1016	ND	170
Aroclor-1221	ND	330
Aroclor-1232	ND	170
Aroclor-1242	ND	170
Aroclor-1248	ND	170
Aroclor-1254	ND	170
Aroclor-1260	10,000	170
Aroclor-1262	ND	170
Aroclor-1268	ND	170

Surrogate	%REC	Limits
TCMX	DO	66-142
Decachlorobiphenyl	DO	43-139

Field ID:	SB6-10.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250733-016		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12
Aroclor-1262	48	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	108	66-142
Decachlorobiphenyl	34 *	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/07/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Field ID: SB6-8.0
Type: SAMPLE
Lab ID: 250733-017

Diln Fac: 1.000
Analyzed: 11/20/13

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12
Aroclor-1262	160	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	87	66-142
Decachlorobiphenyl	41 *	43-139

Field ID: SB6-4.0
Type: SAMPLE
Lab ID: 250733-018

Diln Fac: 1.000
Analyzed: 11/19/13

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	570	12
Aroclor-1262	ND	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	91	66-142
Decachlorobiphenyl	53	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/07/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716687	Analyzed:	11/19/13

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12
Aroclor-1262	ND	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	97	66-142
Decachlorobiphenyl	78	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC716688	Batch#:	205200
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	167.8	177.2	106	64-143
Aroclor-1260	167.8	175.0	104	58-146

Surrogate	%REC	Limits
TCMX	102	66-142
Decachlorobiphenyl	83	43-139

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Field ID:	SB14-3.5	Batch#:	205200
MSS Lab ID:	250732-003	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Type: MS Lab ID: QC716689

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.942	164.1	172.5 b	105	58-155
Aroclor-1260	12.74	164.1	214.3	123	35-159

Surrogate	%REC	Limits
TCMX	110	66-142
Decachlorobiphenyl	83	43-139

Type: MSD Lab ID: QC716690

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.7	176.6 b	106	58-155	1	44
Aroclor-1260	166.7	192.9	108	35-159	12	53

Surrogate	%REC	Limits
TCMX	106	66-142
Decachlorobiphenyl	84	43-139

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/17/13
Basis:	as received	Analyzed:	11/18/13
Batch#:	205159		

Field ID	Type	Lab ID	Result	RL	Diln Fac
SB1-11.75	SAMPLE	250733-001	2,400	2.5	10.00
SB1-5.5	SAMPLE	250733-003	1,300	2.5	10.00
SB2-10.75	SAMPLE	250733-004	240	0.23	1.000
SB2-7.5	SAMPLE	250733-005	120	0.25	1.000
SB2-4.0	SAMPLE	250733-006	20	0.25	1.000
SB3-7.5	SAMPLE	250733-008	340	0.24	1.000
SB4-10.0	SAMPLE	250733-010	10,000	25	100.0
SB4-5.0	SAMPLE	250733-011	110	0.27	1.000
SB4-1.5	SAMPLE	250733-012	18	0.27	1.000
SB5-11.5	SAMPLE	250733-013	1,100	2.5	10.00
SB5-3.0	SAMPLE	250733-015	430	0.28	1.000
SB6-8.0	SAMPLE	250733-017	58	0.25	1.000
SB6-4.0	SAMPLE	250733-018	140	0.25	1.000
	BLANK	QC716525	ND	0.25	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250733	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB1-1.0	Basis:	as received
Lab ID:	250733-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/07/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.51	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	5.9	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	160	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.39	0.10	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.94	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	86	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	13	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	52	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	81	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.22	0.018	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	ND	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	100	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.51	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.51	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	51	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	190	1.0	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250733	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB3-11.0	Basis:	as received
Lab ID:	250733-007	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.3	0.50	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	7.5	0.25	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	810	2.5	10.00	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.39	0.10	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	4.3	0.25	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	46	0.25	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	10	0.25	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	170	0.26	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	460	2.5	10.00	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.17	0.015	1.000	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	4.6	0.25	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	38	0.25	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	42	0.25	1.000	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	920	10	10.00	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250733	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB3-1.5	Basis:	as received
Lab ID:	250733-009	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/07/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.46	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	3.4	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	150	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.59	0.093	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.44	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	16	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	6.9	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	16	0.24	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	14	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.39	0.015	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	ND	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	23	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.46	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.46	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	26	0.23	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	46	0.93	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250733	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB5-8.0	Basis:	as received
Lab ID:	250733-014	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/07/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.1	0.50	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	6.7	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	100	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.21	0.10	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.77	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	39	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	6.3	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	100	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	100	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.19	0.015	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	0.34	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	38	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.50	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.50	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	29	0.25	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	170	1.0	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250733	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB6-10.0	Basis:	as received
Lab ID:	250733-016	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/07/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	7.5	0.52	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	5.6	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	140	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	1.9	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	140	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	16	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	390	0.27	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	160	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.13	0.016	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	4.9	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	190	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	6.0	0.52	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.52	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	41	0.26	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	270	1.0	205159	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716525	Batch#:	205159
Matrix:	Soil	Prepared:	11/17/13
Units:	mg/Kg	Analyzed:	11/18/13

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	SB4-1.5	Batch#:	205159
MSS Lab ID:	250733-012	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/17/13
Basis:	as received	Analyzed:	11/18/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC716526		100.0	102.6	103	80-120		
BSD	QC716527		100.0	101.0	101	80-120	2	22
MS	QC716528	17.98	90.91	112.8	104	52-120		
MSD	QC716529		98.04	90.20	74	52-120	29	51

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	205159
Units:	mg/Kg	Prepared:	11/17/13
Diln Fac:	1.000	Analyzed:	11/18/13

Type: BS Lab ID: QC716526

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	102.9	103	80-120
Arsenic	50.00	51.87	104	80-120
Barium	100.0	103.9	104	80-120
Beryllium	2.500	2.475	99	80-120
Cadmium	10.00	10.65	107	80-120
Chromium	100.0	101.9	102	80-120
Cobalt	25.00	25.68	103	80-120
Copper	12.50	12.92	103	80-120
Lead	100.0	102.6	103	80-120
Molybdenum	20.00	20.54	103	80-120
Nickel	25.00	26.25	105	80-120
Selenium	50.00	51.37	103	80-120
Silver	10.00	9.895	99	80-120
Thallium	50.00	50.69	101	80-120
Vanadium	25.00	25.48	102	80-120
Zinc	25.00	26.65	107	80-120

Type: BSD Lab ID: QC716527

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.9	101	80-120	2	20
Arsenic	50.00	51.14	102	80-120	1	20
Barium	100.0	101.6	102	80-120	2	20
Beryllium	2.500	2.410	96	80-120	3	20
Cadmium	10.00	10.46	105	80-120	2	20
Chromium	100.0	99.67	100	80-120	2	20
Cobalt	25.00	25.09	100	80-120	2	20
Copper	12.50	12.63	101	80-120	2	20
Lead	100.0	101.0	101	80-120	2	22
Molybdenum	20.00	20.04	100	80-120	2	20
Nickel	25.00	25.67	103	80-120	2	20
Selenium	50.00	50.61	101	80-120	1	20
Silver	10.00	9.741	97	80-120	2	20
Thallium	50.00	49.65	99	80-120	2	20
Vanadium	25.00	25.03	100	80-120	2	20
Zinc	25.00	26.03	104	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Field ID:	SB4-1.5	Batch#:	205159
MSS Lab ID:	250733-012	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/17/13
Basis:	as received	Analyzed:	11/18/13
Diln Fac:	1.000		

Type: MS Lab ID: QC716528

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1746	90.91	32.09	35	8-120
Arsenic	3.505	45.45	41.80	84	71-121
Barium	235.9	90.91	268.2	36 *	48-133
Beryllium	0.6852	2.273	2.489	79	78-120
Cadmium	0.3272	9.091	8.479	90	69-120
Chromium	14.58	90.91	92.09	85	60-122
Cobalt	7.653	22.73	25.99	81	61-120
Copper	16.17	11.36	33.65	154 *	44-151
Lead	17.98	90.91	112.8	104	52-120
Molybdenum	0.1276	18.18	15.17	83	67-120
Nickel	22.23	22.73	47.11	109	45-134
Selenium	<0.1607	45.45	37.26	82	67-120
Silver	<0.08215	9.091	6.727	74	66-120
Thallium	<0.1792	45.45	35.37	78	62-120
Vanadium	28.55	22.73	44.19	69	55-137
Zinc	43.57	22.73	66.80	102	38-146

Type: MSD Lab ID: QC716529

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	98.04	32.37	33	8-120	7	29
Arsenic	49.02	41.78	78	71-121	7	34
Barium	98.04	223.6	-13 *	48-133	20	45
Beryllium	2.451	2.508	74 *	78-120	5	20
Cadmium	9.804	8.667	85	69-120	5	23
Chromium	98.04	91.00	78	60-122	8	34
Cobalt	24.51	25.54	73	61-120	7	37
Copper	12.25	26.63	85	44-151	26	35
Lead	98.04	90.20	74	52-120	29	51
Molybdenum	19.61	15.43	78	67-120	6	20
Nickel	24.51	38.12	65	45-134	25	38
Selenium	49.02	37.63	77	67-120	7	27
Silver	9.804	7.405	76	66-120	2	30
Thallium	49.02	36.74	75	62-120	4	20
Vanadium	24.51	43.24	60	55-137	6	30
Zinc	24.51	53.57	41	38-146	25	36

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	205271
Lab ID:	QC716952	Prepared:	11/20/13
Matrix:	Soil	Analyzed:	11/20/13
Units:	mg/Kg		

Result	RL
ND	0.017

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	205271
Matrix:	Soil	Prepared:	11/20/13
Units:	mg/Kg	Analyzed:	11/20/13
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC716953	0.2083	0.2012	97	80-120		
BSD	QC716954	0.2083	0.2047	98	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	SB14-3.5	Batch#:	205271
MSS Lab ID:	250732-003	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/20/13
Basis:	as received	Analyzed:	11/20/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC716955	0.06011	0.2016	0.2371	88	72-135		
MSD	QC716956		0.2049	0.3893	161 *	72-135	47 *	42

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	11/07/13
Matrix:	TCLP Leachate	Received:	11/12/13
Units:	ug/L	Prepared:	11/21/13
Diln Fac:	10.00	Analyzed:	11/22/13
Batch#:	205380		

Field ID	Type	Lab ID	Result	RL
SB1-11.75	SAMPLE	250733-001	750	50
SB1-5.5	SAMPLE	250733-003	6,100	50
SB3-7.5	SAMPLE	250733-008	1,100	50
SB4-10.0	SAMPLE	250733-010	2,400	50
SB5-11.5	SAMPLE	250733-013	1,000	50
SB5-3.0	SAMPLE	250733-015	270	50
	BLANK	QC717362	ND	50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205380
Field ID:	SB16-7.5	Sampled:	11/09/13
MSS Lab ID:	250732-008	Received:	11/12/13
Matrix:	TCLP Leachate	Prepared:	11/21/13
Units:	ug/L	Analyzed:	11/22/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC717363		2,000	2,062	103	78-120			1.000
BSD	QC717364		2,000	2,056	103	78-120	0	20	1.000
MS	QC717365	1,840	2,000	4,024	109	68-120			10.00
MSD	QC717366		2,000	4,042	110	68-120	0	24	10.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	WET
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	11/07/13
Matrix:	WET Leachate	Received:	11/12/13
Units:	ug/L	Prepared:	11/22/13
Diln Fac:	10.00	Analyzed:	11/22/13
Batch#:	205421		

Field ID	Type	Lab ID	Result	RL
SB2-7.5	SAMPLE	250733-005	2,700	250
SB3-7.5	SAMPLE	250733-008	1,800	250
SB4-5.0	SAMPLE	250733-011	7,500	250
SB5-3.0	SAMPLE	250733-015	7,700	250
	BLANK	QC717527	ND	250

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250733	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	WET
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205421
Field ID:	ZZZZZZZZZZ	Sampled:	11/07/13
MSS Lab ID:	250978-001	Received:	11/07/13
Matrix:	WET Leachate	Prepared:	11/22/13
Units:	ug/L	Analyzed:	11/22/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC717528		2,000	1,930	97	78-120			1.000
BSD	QC717529		2,000	1,961	98	78-120	2	20	1.000
MS	QC717530	13,640	10,000	23,020	94	68-120			10.00
MSD	QC717531		10,000	22,360	87	68-120	3	24	10.00

RPD= Relative Percent Difference


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 250734
ANALYTICAL REPORT

PES Environmental, Inc.
1682 Novato Boulevard
Novato, CA 94947

Project : 1386.001.01.003
Location : 6701 Shellmound, Emeryville
Level : II

Sample ID	Lab ID
SB7-12.5	250734-001
SB7-8.0	250734-002
SB7-2.5	250734-003
SB8-12.0	250734-004
SB8-8.0	250734-005
SB8-3.5	250734-006
SB9-10.0	250734-007
SB9-4.5	250734-008
SB10-10.0	250734-009
SB10-5.0	250734-010
SB10-2.0	250734-011
SB11-11.5	250734-012
SB11-5.5	250734-013
SB11-2.0	250734-014
SB12-10.0	250734-015
SB12-5.0	250734-016
SB12-2.0	250734-017
SB13-10.0	250734-018
SB13-5.0	250734-019
SB13-1.5	250734-020

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: Will Rice Date: 11/25/2013

Will S Rice
Project Manager
will.rice@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**250734**
Client:	**PES Environmental, Inc.**
Project:	**1386.001.01.003**
Location:	**6701 Shellmound, Emeryville**
Request Date:	**11/15/13**
Samples Received:	**11/12/13**

This data package contains sample and QC results for twenty soil samples, requested for the above referenced project on 11/15/13. The samples were received cold and intact.

Semivolatile Organics by GC/MS (EPA 8270C):
Low recoveries were observed for pyrene in the MS/MSD of SB2-7.5 (lab # 250733-005); the LCS was within limits, and the associated RPD was within limits. SB11-5.5 (lab # 250734-013), SB11-2.0 (lab # 250734-014), and SB13-10.0 (lab # 250734-018) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. High response was observed for Aroclor-1016 in the CCV analyzed 11/20/13 03:45; affected data was qualified with "b". Low surrogate recoveries were observed for decachlorobiphenyl in SB11-2.0 (lab # 250734-014), SB12-5.0 (lab # 250734-016), and SB13-1.5 (lab # 250734-020); the corresponding TCMX surrogate recoveries were within limits. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A) Soil:
High recovery was observed for mercury in the MSD of SB14-3.5 (lab # 250732-003); the BS/BSD were within limits. High RPD was also observed for mercury in the MS/MSD of SB14-3.5 (lab # 250732-003); the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

Metals (EPA 6010B) TCLP Leachate:
No analytical problems were encountered.

Metals (EPA 6010B) WET Leachate:
No analytical problems were encountered.

PES Environmental, Inc.
Engineering & Environmental Services

250734

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T

SAMPLERS: M. Batterer

JOB NUMBER: 1386.001 0.003

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K. Flory

RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	08	0900	SB7-1 2.5			X		1					
2				0715	SB7-8.0			X		1					
3				0730	SB7-2.5			X		1					
4				1100	SB8-12.0			X		1					
5				1115	SB8-8.0			X		1					
6				1130	SB8-3.5			X		1					
7				1330	SB9-10.0			X		1					
8				1245	SB9-4.5			X		1					
9				1500	SB10-10.0			X		1					
10				1510	SB10-5.0			X		1					
11				1520	SB10-2.0			X		1					
12				1545	SB11-11.5			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Hold
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X
								X

NOTES

Turn Around Time:

Page 1 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Tina Ranka	11/12/13	1245
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME

METHOD OF SHIPMENT:

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

intact on ice cold AL

PES Environmental, Inc.
Engineering & Environmental Services

250734

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T

SAMPLERS: M. Butler

JOB NUMBER: 1336.001.01.003

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K. Flory

RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
13	13	11	08	1600	SB11-5.5			X		1					
14				1610	SB11-20			X		1					
15				1620	SB12-10.0			X		1					
16				1630	SB12-5.0			X		1					
17				1640	SB12-2.0			X		1					
18				1650	SB13-10.5			X		1					
19				1700	SB13-5.0			X		1					
20				1710	SB13-1.5			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Hold
								X
								X
								X
								X
								X
								X
								X
								X

NOTES

Turn Around Time:

Page 2 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	970
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Tania Rankin	11/12/13	1045
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME

METHOD OF SHIPMENT:

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

Instruct on ice cold AC

PES Environmental, Inc.
Engineering & Environmental Services

250734

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T

SAMPLERS: M. Batters

JOB NUMBER: 1386.001.01.003

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K. Flory

RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	08	0900	SB7-12.5			Y		1					
2				0915	SB7-8.0			Y		1					
3				0930	SB7-2.5			X		1					
4				1100	SB8-12.0			Y		1					
5				1115	SB8-8.0			X		1					
6				1130	SB8-3.5			X		1					
7				1330	SB9-10.0			Y		1					
8				1245	SB9-4.5			Y		1					
9				1500	SB10-10.0			X		1					
10				1510	SB10-5.0			Y		1					
11				1520	SB10-1.0			X		1					
12				1545	SB11-11.5			X		1					

ANALYSIS REQUESTED

	EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Hold	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B*	Title 22 Metals by 6010B/7471A
1									X				⊗	
2									X		⊗	⊗	⊗	
3									X		⊗	⊗		⊗
4									X				⊗	
5									X					⊗
6									X				⊗	
7									X				⊗	
8									X					⊗
9									X				⊗	
10									X				⊗	
11									X					⊗
12									X				⊗	

1 2 3 4 5 6 7 8 9 10 11 12

NOTES

Turn Around Time: * 24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 1 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Irma Ranka	11/12/13	1245
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

intact on ice cold pk

Rec'd rec'd 11/13/13

PES Environmental, Inc.
Engineering & Environmental Services

250734

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C T

JOB NUMBER: 1386 coi. 01 vo3

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K. Flora

SAMPLERS: M. Burgess

RECORDER: MS

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sediment	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
13	13	11	08	1600	SB11-5.5			X		1					
14				1610	SB11-2.0			X		1					
15				1620	SB12-10.0			X		1					
16				1630	SB12-5.0			X		1					
17				1640	SB12-2.0			X		1					
18				1650	SB13-10.0			X		1					
19				1700	SB13-5.0			X		1					
20				1710	SB13-1.5			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	Hold	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B**	Title 22 Metals by 6010B/7471A	
								X	X	X	X	X		13
								X	X	X	X			14
								X	X			X	X	15
								X	X					16
								X	X					17
								X	X	X	X			18
								X	X			X	X	19
								X	X	X	X			20

NOTES

Turn Around Time: * 24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 2 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	970
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Tina Rankin	11/12/13	1045
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

Write on ice cold RC

PES Environmental, Inc.
Engineering & Environmental Services

250734

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C + T
SAMPLERS: M. Batters
JOB NUMBER: 386.001 01.003
NAME / LOCATION: 6701 Shellmound, Emeryville
PROJECT MANAGER: K. Flory
RECORDER: MB

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
1	13	11	08	0900	SB7-1-2.5			X		1					
2				0915	SB7-3.0			X		1					
3				0930	SB7-2.5			X		1					
4				1100	SB8-1-2.0			X		1					
5				1115	SB8-8.0			X		1					
6				1130	SB8-3.5			X		1					
7				1330	SB9-1-2.0			X		1					
8				1245	SB7-4.5			X		1					
9				1500	SB1-0-1.0			X		1					
10				1510	SB10-5.0			X		1					
11				1530	SB11-2.0			X		1					
12				1545	SB11-1.5			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)	HOLD	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B**	T.Ale 22 Metals by 6010B/7471A	STLC Lead	TCLP Lead
								X				X			
								X	X	X	X			X	
								X	X	X		X			
								X				X			
								X				X			
								X				X			
								X				X			
								X				X			
								X				X			
								X				X			
								X				X			
								X				X			

Received 11/20

NOTES

Turn Around Time: * 24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 1 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	930
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Tina Ranka	11/12/13	1345
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

intact on ice cold PC

PES Environmental, Inc.
Engineering & Environmental Services

250734

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C+T

SAMPLERS: M. Bittner

JOB NUMBER: 1386.001.003

NAME / LOCATION: 6701 Shellmound, Emeryville

PROJECT MANAGER: K. Flory

RECORDER: MS

	DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	MATRIX Vapor	Water	Soil	Sedim't	# of Containers & Preservatives Unpres.	EnCore	H_2SO_4	HNO_3	HCl	DEPTH IN FEET
13	13	11	08	1600	SB11-5.5			X		1					
14				1610	SB14-2.0			X		1					
15				1620	SB12-10.0			X		1					
16				1630	SB12-5.0			X		1					
17				1640	SB12-2.0			X		1					
18				1650	SB13-10.0			X		1					
19				1700	SB13-5.0			X		1					
20				1710	SB13-1.5			X		1					

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Paramaters (see notes)	HOLD	VOCs by 8260B**	SVOCs by 8270C**	PCBs by 8082**	Lead by 6010B**	Title 22 Metals by 6010B/7471A	STLC Lead	TCLP Lead
								X	X	X	X	X	X		
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X	X	X	X
								X	X	X	X	X			
								X	X	X	X	X			
								X	X	X	X	X			

Received 11/12

NOTES

Turn Around Time: * 24-Hour TAT for Lead analysis
** 72-Hour TAT for remaining analyses

Page 2 of 2

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	11/12/13	970
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) Tonia Rankin	11/12/13	1045
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

Want on ice cold RC

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 250734 Date Received 11/12/13 Number of coolers 2
Client PES Project 6701 SHELLMOUND (1386.001.01.0003)

Date Opened 11/12/13 By (print) TR (sign) Tina Ranker
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☒ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.8, 5.1

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) 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? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

Rev 10, 11/11

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB7-8.0	Batch#:	205211
Lab ID:	250734-002	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received		

Analyte	Result	RL	Diln Fac	Analyzed
N-Nitrosodimethylamine	ND	1,600	5.000	11/19/13
Phenol	ND	1,600	5.000	11/19/13
bis(2-Chloroethyl)ether	ND	1,600	5.000	11/19/13
2-Chlorophenol	ND	1,600	5.000	11/19/13
1,3-Dichlorobenzene	ND	1,600	5.000	11/19/13
1,4-Dichlorobenzene	ND	1,600	5.000	11/19/13
Benzyl alcohol	ND	1,600	5.000	11/19/13
1,2-Dichlorobenzene	ND	1,600	5.000	11/19/13
2-Methylphenol	ND	1,600	5.000	11/19/13
bis(2-Chloroisopropyl) ether	ND	1,600	5.000	11/19/13
4-Methylphenol	ND	1,600	5.000	11/19/13
N-Nitroso-di-n-propylamine	ND	1,600	5.000	11/19/13
Hexachloroethane	ND	1,600	5.000	11/19/13
Nitrobenzene	ND	1,600	5.000	11/19/13
Isophorone	ND	1,600	5.000	11/19/13
2-Nitrophenol	ND	3,300	5.000	11/19/13
2,4-Dimethylphenol	ND	1,600	5.000	11/19/13
Benzoic acid	ND	8,200	5.000	11/19/13
bis(2-Chloroethoxy)methane	ND	1,600	5.000	11/19/13
2,4-Dichlorophenol	ND	1,600	5.000	11/19/13
1,2,4-Trichlorobenzene	ND	1,600	5.000	11/19/13
Naphthalene	28,000	1,300	20.00	11/20/13
4-Chloroaniline	ND	1,600	5.000	11/19/13
Hexachlorobutadiene	ND	1,600	5.000	11/19/13
4-Chloro-3-methylphenol	ND	1,600	5.000	11/19/13
2-Methylnaphthalene	9,200	330	5.000	11/19/13
Hexachlorocyclopentadiene	ND	3,300	5.000	11/19/13
2,4,6-Trichlorophenol	ND	1,600	5.000	11/19/13
2,4,5-Trichlorophenol	ND	1,600	5.000	11/19/13
2-Chloronaphthalene	ND	1,600	5.000	11/19/13
2-Nitroaniline	ND	3,300	5.000	11/19/13
Dimethylphthalate	ND	1,600	5.000	11/19/13
Acenaphthylene	ND	330	5.000	11/19/13
2,6-Dinitrotoluene	ND	1,600	5.000	11/19/13
3-Nitroaniline	ND	3,300	5.000	11/19/13
Acenaphthene	500	330	5.000	11/19/13
2,4-Dinitrophenol	ND	3,300	5.000	11/19/13
4-Nitrophenol	ND	3,300	5.000	11/19/13
Dibenzofuran	ND	1,600	5.000	11/19/13
2,4-Dinitrotoluene	ND	1,600	5.000	11/19/13
Diethylphthalate	ND	1,600	5.000	11/19/13
Fluorene	680	330	5.000	11/19/13
4-Chlorophenyl-phenylether	ND	1,600	5.000	11/19/13
4-Nitroaniline	ND	3,300	5.000	11/19/13
4,6-Dinitro-2-methylphenol	ND	3,300	5.000	11/19/13
N-Nitrosodiphenylamine	1,700	1,600	5.000	11/19/13
Azobenzene	ND	1,600	5.000	11/19/13
4-Bromophenyl-phenylether	ND	1,600	5.000	11/19/13
Hexachlorobenzene	ND	1,600	5.000	11/19/13
Pentachlorophenol	ND	3,300	5.000	11/19/13
Phenanthrene	2,400	330	5.000	11/19/13
Anthracene	340	330	5.000	11/19/13
Di-n-butylphthalate	ND	1,600	5.000	11/19/13
Fluoranthene	1,100	330	5.000	11/19/13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB7-8.0	Batch#:	205211
Lab ID:	250734-002	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received		

Analyte	Result	RL	Diln Fac	Analyzed
Pyrene	1,100	330	5.000	11/19/13
Butylbenzylphthalate	ND	1,600	5.000	11/19/13
3,3'-Dichlorobenzidine	ND	3,300	5.000	11/19/13
Benzo(a)anthracene	340	330	5.000	11/19/13
Chrysene	470	330	5.000	11/19/13
bis(2-Ethylhexyl)phthalate	ND	1,600	5.000	11/19/13
Di-n-octylphthalate	ND	1,600	5.000	11/19/13
Benzo(b)fluoranthene	ND	330	5.000	11/19/13
Benzo(k)fluoranthene	ND	330	5.000	11/19/13
Benzo(a)pyrene	ND	330	5.000	11/19/13
Indeno(1,2,3-cd)pyrene	ND	330	5.000	11/19/13
Dibenz(a,h)anthracene	ND	330	5.000	11/19/13
Benzo(g,h,i)perylene	ND	330	5.000	11/19/13

Surrogate	%REC	Limits	Diln Fac	Analyzed
2-Fluorophenol	65	35-120	5.000	11/19/13
Phenol-d5	65	39-120	5.000	11/19/13
2,4,6-Tribromophenol	82	39-120	5.000	11/19/13
Nitrobenzene-d5	71	49-120	5.000	11/19/13
2-Fluorobiphenyl	92	52-120	5.000	11/19/13
Terphenyl-d14	84	48-120	5.000	11/19/13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB7-2.5	Batch#:	205211
Lab ID:	250734-003	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received		

Analyte	Result	RL	Diln Fac	Analyzed
N-Nitrosodimethylamine	ND	1,700	5.000	11/19/13
Phenol	ND	1,700	5.000	11/19/13
bis(2-Chloroethyl)ether	ND	1,700	5.000	11/19/13
2-Chlorophenol	ND	1,700	5.000	11/19/13
1,3-Dichlorobenzene	ND	1,700	5.000	11/19/13
1,4-Dichlorobenzene	ND	1,700	5.000	11/19/13
Benzyl alcohol	ND	1,700	5.000	11/19/13
1,2-Dichlorobenzene	ND	1,700	5.000	11/19/13
2-Methylphenol	ND	1,700	5.000	11/19/13
bis(2-Chloroisopropyl) ether	ND	1,700	5.000	11/19/13
4-Methylphenol	10,000	3,300	10.00	11/20/13
N-Nitroso-di-n-propylamine	ND	1,700	5.000	11/19/13
Hexachloroethane	ND	1,700	5.000	11/19/13
Nitrobenzene	ND	1,700	5.000	11/19/13
Isophorone	ND	1,700	5.000	11/19/13
2-Nitrophenol	ND	3,300	5.000	11/19/13
2,4-Dimethylphenol	ND	1,700	5.000	11/19/13
Benzoic acid	ND	8,300	5.000	11/19/13
bis(2-Chloroethoxy)methane	ND	1,700	5.000	11/19/13
2,4-Dichlorophenol	ND	1,700	5.000	11/19/13
1,2,4-Trichlorobenzene	ND	1,700	5.000	11/19/13
Naphthalene	1,500	330	5.000	11/19/13
4-Chloroaniline	ND	1,700	5.000	11/19/13
Hexachlorobutadiene	ND	1,700	5.000	11/19/13
4-Chloro-3-methylphenol	ND	1,700	5.000	11/19/13
2-Methylnaphthalene	ND	330	5.000	11/19/13
Hexachlorocyclopentadiene	ND	3,300	5.000	11/19/13
2,4,6-Trichlorophenol	ND	1,700	5.000	11/19/13
2,4,5-Trichlorophenol	ND	1,700	5.000	11/19/13
2-Chloronaphthalene	ND	1,700	5.000	11/19/13
2-Nitroaniline	ND	3,300	5.000	11/19/13
Dimethylphthalate	ND	1,700	5.000	11/19/13
Acenaphthylene	ND	330	5.000	11/19/13
2,6-Dinitrotoluene	ND	1,700	5.000	11/19/13
3-Nitroaniline	ND	3,300	5.000	11/19/13
Acenaphthene	ND	330	5.000	11/19/13
2,4-Dinitrophenol	ND	3,300	5.000	11/19/13
4-Nitrophenol	ND	3,300	5.000	11/19/13
Dibenzofuran	ND	1,700	5.000	11/19/13
2,4-Dinitrotoluene	ND	1,700	5.000	11/19/13
Diethylphthalate	ND	1,700	5.000	11/19/13
Fluorene	ND	330	5.000	11/19/13
4-Chlorophenyl-phenylether	ND	1,700	5.000	11/19/13
4-Nitroaniline	ND	3,300	5.000	11/19/13
4,6-Dinitro-2-methylphenol	ND	3,300	5.000	11/19/13
N-Nitrosodiphenylamine	ND	1,700	5.000	11/19/13
Azobenzene	ND	1,700	5.000	11/19/13
4-Bromophenyl-phenylether	ND	1,700	5.000	11/19/13
Hexachlorobenzene	ND	1,700	5.000	11/19/13
Pentachlorophenol	ND	3,300	5.000	11/19/13
Phenanthrene	450	330	5.000	11/19/13
Anthracene	ND	330	5.000	11/19/13
Di-n-butylphthalate	ND	1,700	5.000	11/19/13
Fluoranthene	ND	330	5.000	11/19/13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB7-2.5	Batch#:	205211
Lab ID:	250734-003	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received		

Analyte	Result	RL	Diln Fac	Analyzed
Pyrene	ND	330	5.000	11/19/13
Butylbenzylphthalate	ND	1,700	5.000	11/19/13
3,3'-Dichlorobenzidine	ND	3,300	5.000	11/19/13
Benzo(a)anthracene	ND	330	5.000	11/19/13
Chrysene	ND	330	5.000	11/19/13
bis(2-Ethylhexyl)phthalate	ND	1,700	5.000	11/19/13
Di-n-octylphthalate	ND	1,700	5.000	11/19/13
Benzo(b)fluoranthene	ND	330	5.000	11/19/13
Benzo(k)fluoranthene	ND	330	5.000	11/19/13
Benzo(a)pyrene	ND	330	5.000	11/19/13
Indeno(1,2,3-cd)pyrene	ND	330	5.000	11/19/13
Dibenz(a,h)anthracene	ND	330	5.000	11/19/13
Benzo(g,h,i)perylene	ND	330	5.000	11/19/13

Surrogate	%REC	Limits	Diln Fac	Analyzed
2-Fluorophenol	63	35-120	5.000	11/19/13
Phenol-d5	62	39-120	5.000	11/19/13
2,4,6-Tribromophenol	88	39-120	5.000	11/19/13
Nitrobenzene-d5	73	49-120	5.000	11/19/13
2-Fluorobiphenyl	100	52-120	5.000	11/19/13
Terphenyl-d14	86	48-120	5.000	11/19/13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB11-5.5	Batch#:	205211
Lab ID:	250734-013	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	10.00		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	3,300
Phenol	ND	3,300
bis(2-Chloroethyl)ether	ND	3,300
2-Chlorophenol	ND	3,300
1,3-Dichlorobenzene	ND	3,300
1,4-Dichlorobenzene	ND	3,300
Benzyl alcohol	ND	3,300
1,2-Dichlorobenzene	ND	3,300
2-Methylphenol	ND	3,300
bis(2-Chloroisopropyl) ether	ND	3,300
4-Methylphenol	ND	3,300
N-Nitroso-di-n-propylamine	ND	3,300
Hexachloroethane	ND	3,300
Nitrobenzene	ND	3,300
Isophorone	ND	3,300
2-Nitrophenol	ND	6,700
2,4-Dimethylphenol	ND	3,300
Benzoic acid	ND	17,000
bis(2-Chloroethoxy)methane	ND	3,300
2,4-Dichlorophenol	ND	3,300
1,2,4-Trichlorobenzene	ND	3,300
Naphthalene	ND	670
4-Chloroaniline	ND	3,300
Hexachlorobutadiene	ND	3,300
4-Chloro-3-methylphenol	ND	3,300
2-Methylnaphthalene	ND	670
Hexachlorocyclopentadiene	ND	6,700
2,4,6-Trichlorophenol	ND	3,300
2,4,5-Trichlorophenol	ND	3,300
2-Chloronaphthalene	ND	3,300
2-Nitroaniline	ND	6,700
Dimethylphthalate	ND	3,300
Acenaphthylene	ND	670
2,6-Dinitrotoluene	ND	3,300
3-Nitroaniline	ND	6,700
Acenaphthene	ND	670
2,4-Dinitrophenol	ND	6,700
4-Nitrophenol	ND	6,700
Dibenzofuran	ND	3,300
2,4-Dinitrotoluene	ND	3,300
Diethylphthalate	ND	3,300
Fluorene	ND	670
4-Chlorophenyl-phenylether	ND	3,300
4-Nitroaniline	ND	6,700
4,6-Dinitro-2-methylphenol	ND	6,700
N-Nitrosodiphenylamine	ND	3,300
Azobenzene	ND	3,300
4-Bromophenyl-phenylether	ND	3,300
Hexachlorobenzene	ND	3,300
Pentachlorophenol	ND	6,700
Phenanthrene	750	670
Anthracene	ND	670

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB11-5.5	Batch#:	205211
Lab ID:	250734-013	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	10.00		

Analyte	Result	RL
Di-n-butylphthalate	ND	3,300
Fluoranthene	1,800	670
Pyrene	2,300	670
Butylbenzylphthalate	ND	3,300
3,3'-Dichlorobenzidine	ND	6,700
Benzo(a)anthracene	ND	670
Chrysene	820	670
bis(2-Ethylhexyl)phthalate	ND	3,300
Di-n-octylphthalate	ND	3,300
Benzo(b)fluoranthene	990	670
Benzo(k)fluoranthene	ND	670
Benzo(a)pyrene	900	670
Indeno(1,2,3-cd)pyrene	ND	670
Dibenz(a,h)anthracene	ND	670
Benzo(g,h,i)perylene	ND	670

Surrogate	%REC	Limits
2-Fluorophenol	DO	35-120
Phenol-d5	DO	39-120
2,4,6-Tribromophenol	DO	39-120
Nitrobenzene-d5	DO	49-120
2-Fluorobiphenyl	DO	52-120
Terphenyl-d14	DO	48-120

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB11-2.0	Batch#:	205211
Lab ID:	250734-014	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	20.00		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	6,600
Phenol	ND	6,600
bis(2-Chloroethyl)ether	ND	6,600
2-Chlorophenol	ND	6,600
1,3-Dichlorobenzene	ND	6,600
1,4-Dichlorobenzene	ND	6,600
Benzyl alcohol	ND	6,600
1,2-Dichlorobenzene	ND	6,600
2-Methylphenol	ND	6,600
bis(2-Chloroisopropyl) ether	ND	6,600
4-Methylphenol	ND	6,600
N-Nitroso-di-n-propylamine	ND	6,600
Hexachloroethane	ND	6,600
Nitrobenzene	ND	6,600
Isophorone	ND	6,600
2-Nitrophenol	ND	13,000
2,4-Dimethylphenol	ND	6,600
Benzoic acid	ND	33,000
bis(2-Chloroethoxy)methane	ND	6,600
2,4-Dichlorophenol	ND	6,600
1,2,4-Trichlorobenzene	ND	6,600
Naphthalene	ND	1,300
4-Chloroaniline	ND	6,600
Hexachlorobutadiene	ND	6,600
4-Chloro-3-methylphenol	ND	6,600
2-Methylnaphthalene	ND	1,300
Hexachlorocyclopentadiene	ND	13,000
2,4,6-Trichlorophenol	ND	6,600
2,4,5-Trichlorophenol	ND	6,600
2-Chloronaphthalene	ND	6,600
2-Nitroaniline	ND	13,000
Dimethylphthalate	ND	6,600
Acenaphthylene	ND	1,300
2,6-Dinitrotoluene	ND	6,600
3-Nitroaniline	ND	13,000
Acenaphthene	ND	1,300
2,4-Dinitrophenol	ND	13,000
4-Nitrophenol	ND	13,000
Dibenzofuran	ND	6,600
2,4-Dinitrotoluene	ND	6,600
Diethylphthalate	ND	6,600
Fluorene	ND	1,300
4-Chlorophenyl-phenylether	ND	6,600
4-Nitroaniline	ND	13,000
4,6-Dinitro-2-methylphenol	ND	13,000
N-Nitrosodiphenylamine	ND	6,600
Azobenzene	ND	6,600
4-Bromophenyl-phenylether	ND	6,600
Hexachlorobenzene	ND	6,600
Pentachlorophenol	ND	13,000
Phenanthrene	ND	1,300
Anthracene	ND	1,300

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB11-2.0	Batch#:	205211
Lab ID:	250734-014	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	20.00		

Analyte	Result	RL
Di-n-butylphthalate	ND	6,600
Fluoranthene	ND	1,300
Pyrene	1,300	1,300
Butylbenzylphthalate	ND	6,600
3,3'-Dichlorobenzidine	ND	13,000
Benzo(a)anthracene	ND	1,300
Chrysene	ND	1,300
bis(2-Ethylhexyl)phthalate	ND	6,600
Di-n-octylphthalate	ND	6,600
Benzo(b)fluoranthene	ND	1,300
Benzo(k)fluoranthene	ND	1,300
Benzo(a)pyrene	ND	1,300
Indeno(1,2,3-cd)pyrene	ND	1,300
Dibenz(a,h)anthracene	ND	1,300
Benzo(g,h,i)perylene	ND	1,300

Surrogate	%REC	Limits
2-Fluorophenol	DO	35-120
Phenol-d5	DO	39-120
2,4,6-Tribromophenol	DO	39-120
Nitrobenzene-d5	DO	49-120
2-Fluorobiphenyl	DO	52-120
Terphenyl-d14	DO	48-120

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB13-10.0	Batch#:	205211
Lab ID:	250734-018	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/20/13
Diln Fac:	25.00		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	8,300
Phenol	ND	8,300
bis(2-Chloroethyl)ether	ND	8,300
2-Chlorophenol	ND	8,300
1,3-Dichlorobenzene	ND	8,300
1,4-Dichlorobenzene	ND	8,300
Benzyl alcohol	ND	8,300
1,2-Dichlorobenzene	ND	8,300
2-Methylphenol	ND	8,300
bis(2-Chloroisopropyl) ether	ND	8,300
4-Methylphenol	ND	8,300
N-Nitroso-di-n-propylamine	ND	8,300
Hexachloroethane	ND	8,300
Nitrobenzene	ND	8,300
Isophorone	ND	8,300
2-Nitrophenol	ND	17,000
2,4-Dimethylphenol	ND	8,300
Benzoic acid	ND	42,000
bis(2-Chloroethoxy)methane	ND	8,300
2,4-Dichlorophenol	ND	8,300
1,2,4-Trichlorobenzene	ND	8,300
Naphthalene	2,100	1,700
4-Chloroaniline	ND	8,300
Hexachlorobutadiene	ND	8,300
4-Chloro-3-methylphenol	ND	8,300
2-Methylnaphthalene	2,000	1,700
Hexachlorocyclopentadiene	ND	17,000
2,4,6-Trichlorophenol	ND	8,300
2,4,5-Trichlorophenol	ND	8,300
2-Chloronaphthalene	ND	8,300
2-Nitroaniline	ND	17,000
Dimethylphthalate	ND	8,300
Acenaphthylene	ND	1,700
2,6-Dinitrotoluene	ND	8,300
3-Nitroaniline	ND	17,000
Acenaphthene	ND	1,700
2,4-Dinitrophenol	ND	17,000
4-Nitrophenol	ND	17,000
Dibenzofuran	ND	8,300
2,4-Dinitrotoluene	ND	8,300
Diethylphthalate	ND	8,300
Fluorene	ND	1,700
4-Chlorophenyl-phenylether	ND	8,300
4-Nitroaniline	ND	17,000
4,6-Dinitro-2-methylphenol	ND	17,000
N-Nitrosodiphenylamine	ND	8,300
Azobenzene	ND	8,300
4-Bromophenyl-phenylether	ND	8,300
Hexachlorobenzene	ND	8,300
Pentachlorophenol	ND	17,000
Phenanthrene	7,500	1,700
Anthracene	ND	1,700

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB13-10.0	Batch#:	205211
Lab ID:	250734-018	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/20/13
Diln Fac:	25.00		

Analyte	Result	RL
Di-n-butylphthalate	ND	8,300
Fluoranthene	4,200	1,700
Pyrene	4,000	1,700
Butylbenzylphthalate	ND	8,300
3,3'-Dichlorobenzidine	ND	17,000
Benzo(a)anthracene	2,000	1,700
Chrysene	2,100	1,700
bis(2-Ethylhexyl)phthalate	ND	8,300
Di-n-octylphthalate	ND	8,300
Benzo(b)fluoranthene	1,800	1,700
Benzo(k)fluoranthene	ND	1,700
Benzo(a)pyrene	ND	1,700
Indeno(1,2,3-cd)pyrene	ND	1,700
Dibenz(a,h)anthracene	ND	1,700
Benzo(g,h,i)perylene	ND	1,700

Surrogate	%REC	Limits
2-Fluorophenol	DO	35-120
Phenol-d5	DO	39-120
2,4,6-Tribromophenol	DO	39-120
Nitrobenzene-d5	DO	49-120
2-Fluorobiphenyl	DO	52-120
Terphenyl-d14	DO	48-120

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB13-1.5	Batch#:	205211
Lab ID:	250734-020	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	260	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	92	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB13-1.5	Batch#:	205211
Lab ID:	250734-020	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Analyte	Result	RL
Fluoranthene	ND	66
Pyrene	79	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	55	35-120
Phenol-d5	55	39-120
2,4,6-Tribromophenol	78	39-120
Nitrobenzene-d5	62	49-120
2-Fluorobiphenyl	79	52-120
Terphenyl-d14	71	48-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716731	Batch#:	205211
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
Fluoranthene	ND	66

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716731	Batch#:	205211
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Result	RL
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	56	35-120
Phenol-d5	57	39-120
2,4,6-Tribromophenol	68	39-120
Nitrobenzene-d5	61	49-120
2-Fluorobiphenyl	80	52-120
Terphenyl-d14	81	48-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC716732	Batch#:	205211
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Spiked	Result	%REC	Limits
Phenol	2,653	2,176	82	48-120
2-Chlorophenol	2,653	2,098	79	51-120
1,4-Dichlorobenzene	2,653	2,122	80	54-120
N-Nitroso-di-n-propylamine	2,653	1,892	71	35-120
1,2,4-Trichlorobenzene	2,653	2,403	91	56-120
4-Chloro-3-methylphenol	2,653	2,304	87	61-120
Acenaphthene	995.0	828.6	83	57-120
4-Nitrophenol	2,653	2,350	89	54-120
2,4-Dinitrotoluene	2,653	2,427	91	58-120
Pentachlorophenol	2,653	2,139	81	42-120
Pyrene	995.0	988.8	99	60-120

Surrogate	%REC	Limits
2-Fluorophenol	75	35-120
Phenol-d5	78	39-120
2,4,6-Tribromophenol	100	39-120
Nitrobenzene-d5	74	49-120
2-Fluorobiphenyl	80	52-120
Terphenyl-d14	86	48-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8270C
Field ID:	SB2-7.5	Batch#:	205211
MSS Lab ID:	250733-005	Sampled:	11/07/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	2.000		

Type: MS Lab ID: QC716733

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<13.95	2,664	2,094	79	51-120
2-Chlorophenol	<14.52	2,664	1,998	75	52-120
1,4-Dichlorobenzene	<15.20	2,664	1,811	68	55-120
N-Nitroso-di-n-propylamine	<15.52	2,664	2,062	77	45-120
1,2,4-Trichlorobenzene	<15.58	2,664	2,321	87	57-120
4-Chloro-3-methylphenol	<16.45	2,664	2,240	84	60-120
Acenaphthene	35.29	999.0	800.5	77	58-120
4-Nitrophenol	<140.7	2,664	2,158	81	49-120
2,4-Dinitrotoluene	<18.98	2,664	2,248	84	58-120
Pentachlorophenol	<252.4	2,664	1,753	66	23-120
Pyrene	2,286	999.0	1,257	-103 *	53-122

Surrogate	%REC	Limits
2-Fluorophenol	63	35-120
Phenol-d5	69	39-120
2,4,6-Tribromophenol	86	39-120
Nitrobenzene-d5	69	49-120
2-Fluorobiphenyl	82	52-120
Terphenyl-d14	81	48-120

Type: MSD Lab ID: QC716734

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,704	2,032	75	51-120	4	32
2-Chlorophenol	2,704	1,967	73	52-120	3	32
1,4-Dichlorobenzene	2,704	1,622	60	55-120	12	35
N-Nitroso-di-n-propylamine	2,704	1,998	74	45-120	5	35
1,2,4-Trichlorobenzene	2,704	2,191	81	57-120	7	31
4-Chloro-3-methylphenol	2,704	2,210	82	60-120	3	30
Acenaphthene	1,014	768.9	72	58-120	5	36
4-Nitrophenol	2,704	2,054	76	49-120	6	39
2,4-Dinitrotoluene	2,704	2,137	79	58-120	7	28
Pentachlorophenol	2,704	1,293	48	23-120	32	47
Pyrene	1,014	1,344	-93 *	53-122	6	44

Surrogate	%REC	Limits
2-Fluorophenol	63	35-120
Phenol-d5	69	39-120
2,4,6-Tribromophenol	79	39-120
Nitrobenzene-d5	67	49-120
2-Fluorobiphenyl	79	52-120
Terphenyl-d14	80	48-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/08/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Field ID:	SB7-8.0	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-002		

Analyte	Result	RL
Aroclor-1016	ND	42
Aroclor-1221	ND	84
Aroclor-1232	ND	42
Aroclor-1242	ND	42
Aroclor-1248	ND	42
Aroclor-1254	ND	42
Aroclor-1260	ND	42
Aroclor-1262	1,500	42
Aroclor-1268	ND	42

Surrogate	%REC	Limits
TCMX	79	66-142
Decachlorobiphenyl	43	43-139

Field ID:	SB7-2.5	Diln Fac:	10.00
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-003		

Analyte	Result	RL
Aroclor-1016	ND	82
Aroclor-1221	ND	160
Aroclor-1232	ND	82
Aroclor-1242	ND	82
Aroclor-1248	ND	82
Aroclor-1254	ND	82
Aroclor-1260	1,900	82
Aroclor-1262	ND	82
Aroclor-1268	ND	82

Surrogate	%REC	Limits
TCMX	DO	66-142
Decachlorobiphenyl	DO	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/08/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Field ID:	SB11-5.5	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-013		

Analyte	Result	RL
Aroclor-1016	ND	42
Aroclor-1221	ND	83
Aroclor-1232	ND	42
Aroclor-1242	ND	42
Aroclor-1248	ND	42
Aroclor-1254	ND	42
Aroclor-1260	1,200	42
Aroclor-1262	ND	42
Aroclor-1268	1,400	42

Surrogate	%REC	Limits
TCMX	73	66-142
Decachlorobiphenyl	50	43-139

Field ID:	SB11-2.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/19/13
Lab ID:	250734-014		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	380	12
Aroclor-1262	ND	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	98	66-142
Decachlorobiphenyl	42 *	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/08/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Field ID:	SB12-10.0	Diln Fac:	10.00
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-015		

Analyte	Result	RL
Aroclor-1016	ND	83
Aroclor-1221	ND	170
Aroclor-1232	ND	83
Aroclor-1242	ND	83
Aroclor-1248	ND	83
Aroclor-1254	ND	83
Aroclor-1260	ND	83
Aroclor-1262	6,500	83
Aroclor-1268	ND	83

Surrogate	%REC	Limits
TCMX	DO	66-142
Decachlorobiphenyl	DO	43-139

Field ID:	SB12-5.0	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-016		

Analyte	Result	RL
Aroclor-1016	ND	41
Aroclor-1221	ND	82
Aroclor-1232	ND	41
Aroclor-1242	ND	41
Aroclor-1248	ND	41
Aroclor-1254	ND	41
Aroclor-1260	ND	41
Aroclor-1262	1,200	41
Aroclor-1268	ND	41

Surrogate	%REC	Limits
TCMX	79	66-142
Decachlorobiphenyl	39 *	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/08/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Field ID:	SB12-2.0	Diln Fac:	5.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-017		

Analyte	Result	RL
Aroclor-1016	ND	42
Aroclor-1221	ND	85
Aroclor-1232	ND	42
Aroclor-1242	ND	42
Aroclor-1248	ND	42
Aroclor-1254	ND	42
Aroclor-1260	2,000	42
Aroclor-1262	ND	42
Aroclor-1268	ND	42

Surrogate	%REC	Limits
TCMX	115	66-142
Decachlorobiphenyl	97	43-139

Field ID:	SB13-10.0	Diln Fac:	10.00
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-018		

Analyte	Result	RL
Aroclor-1016	ND	84
Aroclor-1221	ND	170
Aroclor-1232	ND	84
Aroclor-1242	ND	84
Aroclor-1248	ND	84
Aroclor-1254	ND	84
Aroclor-1260	3,300	84
Aroclor-1262	ND	84
Aroclor-1268	1,900	84

Surrogate	%REC	Limits
TCMX	DO	66-142
Decachlorobiphenyl	DO	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/08/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Field ID:	SB13-5.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-019		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	18	12
Aroclor-1262	ND	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	118	66-142
Decachlorobiphenyl	108	43-139

Field ID:	SB13-1.5	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	11/20/13
Lab ID:	250734-020		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	270	12
Aroclor-1262	ND	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	93	66-142
Decachlorobiphenyl	37 *	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	11/08/13
Units:	ug/Kg	Received:	11/12/13
Basis:	as received	Prepared:	11/18/13
Batch#:	205200		

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716687	Analyzed:	11/19/13

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12
Aroclor-1262	ND	12
Aroclor-1268	ND	12

Surrogate	%REC	Limits
TCMX	97	66-142
Decachlorobiphenyl	78	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC716688	Batch#:	205200
Matrix:	Soil	Prepared:	11/18/13
Units:	ug/Kg	Analyzed:	11/19/13

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	167.8	177.2	106	64-143
Aroclor-1260	167.8	175.0	104	58-146

Surrogate	%REC	Limits
TCMX	102	66-142
Decachlorobiphenyl	83	43-139

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1386.001.01.003	Analysis:	EPA 8082
Field ID:	SB14-3.5	Batch#:	205200
MSS Lab ID:	250732-003	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	ug/Kg	Prepared:	11/18/13
Basis:	as received	Analyzed:	11/19/13
Diln Fac:	1.000		

Type: MS Lab ID: QC716689

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.942	164.1	172.5 b	105	58-155
Aroclor-1260	12.74	164.1	214.3	123	35-159

Surrogate	%REC	Limits
TCMX	110	66-142
Decachlorobiphenyl	83	43-139

Type: MSD Lab ID: QC716690

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	166.7	176.6 b	106	58-155	1	44
Aroclor-1260	166.7	192.9	108	35-159	12	53

Surrogate	%REC	Limits
TCMX	106	66-142
Decachlorobiphenyl	84	43-139

b= See narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/17/13
Basis:	as received	Analyzed:	11/18/13
Batch#:	205160		

Field ID	Type	Lab ID	Result	RL	Diln Fac
SB7-12.5	SAMPLE	250734-001	2.1	0.25	1.000
SB7-8.0	SAMPLE	250734-002	250	0.24	1.000
SB8-12.0	SAMPLE	250734-004	3.0	0.24	1.000
SB8-3.5	SAMPLE	250734-006	200	0.26	1.000
SB9-10.0	SAMPLE	250734-007	50	0.26	1.000
SB10-10.0	SAMPLE	250734-009	21	0.27	1.000
SB10-5.0	SAMPLE	250734-010	49	0.28	1.000
SB11-11.5	SAMPLE	250734-012	1.7	0.24	1.000
SB11-2.0	SAMPLE	250734-014	28	0.24	1.000
SB12-5.0	SAMPLE	250734-016	320	0.27	1.000
SB12-2.0	SAMPLE	250734-017	130	0.28	1.000
SB13-10.0	SAMPLE	250734-018	3,300	2.4	10.00
SB13-1.5	SAMPLE	250734-020	68	0.24	1.000
	BLANK	QC716530	ND	0.25	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250734	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB7-2.5	Basis:	as received
Lab ID:	250734-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/08/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.75	0.47	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	5.0	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	160	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.25	0.093	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	1.2	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	34	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	9.0	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	74	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	120	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.19	0.015	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	0.69	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	49	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	0.66	0.47	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.47	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	35	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	220	0.93	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250734	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB8-8.0	Basis:	as received
Lab ID:	250734-005	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/08/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.51	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	2.3	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	32	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	ND	0.10	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	33	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	4.4	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	4.7	0.26	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	3.1	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	ND	0.016	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	ND	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	24	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.51	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.51	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	26	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	19	1.0	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250734	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB9-4.5	Basis:	as received
Lab ID:	250734-008	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/08/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.49	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	5.4	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	120	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.32	0.097	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.81	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	45	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	10	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	46	0.25	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	41	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.12	0.016	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	1.5	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	38	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.49	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.49	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	36	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	110	0.97	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250734	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB10-2.0	Basis:	as received
Lab ID:	250734-011	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.47	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	6.9	0.23	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	550	2.3	10.00	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.33	0.093	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.58	0.23	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	38	0.23	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	6.9	0.23	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	27	2.4	10.00	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	45	2.3	10.00	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.15	0.017	1.000	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	0.61	0.23	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	36	0.23	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.47	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.23	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.47	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	34	0.23	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	90	0.93	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250734	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB11-5.5	Basis:	as received
Lab ID:	250734-013	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/08/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.62	0.54	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	9.2	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	140	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.26	0.11	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	1.2	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	160	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	10	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	260	0.28	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	170	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.17	0.018	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	21	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	170	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.54	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.54	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	36	0.27	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	300	1.1	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250734	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB12-10.0	Basis:	as received
Lab ID:	250734-015	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.49	1.000	205160	11/17/13	11/19/13	EPA 3050B	EPA 6010B
Arsenic	5.9	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	210	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.27	0.098	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	1.3	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	31	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	6.6	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	44	2.5	10.00	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	290	2.5	10.00	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.18	0.016	1.000	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	0.28	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	29	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	ND	0.49	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.49	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	30	0.25	1.000	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	1,900	9.8	10.00	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	250734	Project#:	1386.001.01.003
Client:	PES Environmental, Inc.	Location:	6701 Shellmound, Emeryville
Field ID:	SB13-5.0	Basis:	as received
Lab ID:	250734-019	Diln Fac:	1.000
Matrix:	Soil	Sampled:	11/08/13
Units:	mg/Kg	Received:	11/12/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.47	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Arsenic	8.4	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Barium	270	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Beryllium	0.42	0.093	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cadmium	0.70	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Chromium	23	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Cobalt	26	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Copper	30	0.24	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Lead	54	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Mercury	0.070	0.018	205271	11/20/13	11/20/13	METHOD	EPA 7471A
Molybdenum	0.37	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Nickel	27	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Selenium	1.6	0.47	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Silver	ND	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Thallium	ND	0.47	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Vanadium	45	0.23	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B
Zinc	100	0.93	205160	11/17/13	11/18/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC716530	Batch#:	205160
Matrix:	Soil	Prepared:	11/17/13
Units:	mg/Kg	Analyzed:	11/18/13

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	SB7-12.5	Batch#:	205160
MSS Lab ID:	250734-001	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/17/13
Basis:	as received	Analyzed:	11/18/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC716531		100.0	100.6	101	80-120		
BSD	QC716532		100.0	99.84	100	80-120	1	22
MS	QC716533	2.081	106.4	97.49	90	52-120		
MSD	QC716534		104.2	96.30	90	52-120	1	51

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	205160
Units:	mg/Kg	Prepared:	11/17/13
Diln Fac:	1.000	Analyzed:	11/18/13

Type: BS Lab ID: QC716531

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	103.6	104	80-120
Arsenic	50.00	52.27	105	80-120
Barium	100.0	103.1	103	80-120
Beryllium	2.500	2.429	97	80-120
Cadmium	10.00	10.63	106	80-120
Chromium	100.0	101.2	101	80-120
Cobalt	25.00	25.51	102	80-120
Copper	12.50	12.97	104	80-120
Lead	100.0	100.6	101	80-120
Molybdenum	20.00	20.81	104	80-120
Nickel	25.00	26.02	104	80-120
Selenium	50.00	51.44	103	80-120
Silver	10.00	9.800	98	80-120
Thallium	50.00	50.35	101	80-120
Vanadium	25.00	25.22	101	80-120
Zinc	25.00	26.16	105	80-120

Type: BSD Lab ID: QC716532

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	101.8	102	80-120	2	20
Arsenic	50.00	51.45	103	80-120	2	20
Barium	100.0	103.2	103	80-120	0	20
Beryllium	2.500	2.434	97	80-120	0	20
Cadmium	10.00	10.65	106	80-120	0	20
Chromium	100.0	101.4	101	80-120	0	20
Cobalt	25.00	25.49	102	80-120	0	20
Copper	12.50	12.97	104	80-120	0	20
Lead	100.0	99.84	100	80-120	1	22
Molybdenum	20.00	20.51	103	80-120	1	20
Nickel	25.00	26.10	104	80-120	0	20
Selenium	50.00	50.62	101	80-120	2	20
Silver	10.00	9.799	98	80-120	0	20
Thallium	50.00	49.58	99	80-120	2	20
Vanadium	25.00	25.20	101	80-120	0	20
Zinc	25.00	26.33	105	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Field ID:	SB7-12.5	Batch#:	205160
MSS Lab ID:	250734-001	Sampled:	11/08/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/17/13
Basis:	as received	Analyzed:	11/18/13
Diln Fac:	1.000		

Type: MS Lab ID: QC716533

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.2139	106.4	71.11	67	8-120
Arsenic	2.167	53.19	53.09	96	71-121
Barium	36.47	106.4	129.5	87	48-133
Beryllium	0.1016	2.660	2.391	86	78-120
Cadmium	0.1963	10.64	10.26	95	69-120
Chromium	33.59	106.4	130.2	91	60-122
Cobalt	4.758	26.60	28.45	89	61-120
Copper	4.566	13.30	17.34	96	44-151
Lead	2.081	106.4	97.49	90	52-120
Molybdenum	<0.05505	21.28	19.82	93	67-120
Nickel	28.68	26.60	51.09	84	45-134
Selenium	<0.1434	53.19	47.97	90	67-120
Silver	<0.07329	10.64	9.149	86	66-120
Thallium	<0.1598	53.19	45.92	86	62-120
Vanadium	25.83	26.60	49.21	88	55-137
Zinc	18.04	26.60	48.74	115	38-146

Type: MSD Lab ID: QC716534

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	104.2	65.66	63	8-120	6	29
Arsenic	52.08	52.62	97	71-121	1	34
Barium	104.2	130.2	90	48-133	2	45
Beryllium	2.604	2.379	87	78-120	2	20
Cadmium	10.42	10.27	97	69-120	2	23
Chromium	104.2	134.1	96	60-122	5	34
Cobalt	26.04	28.38	91	61-120	2	37
Copper	13.02	17.92	103	44-151	5	35
Lead	104.2	96.30	90	52-120	1	51
Molybdenum	20.83	19.69	94	67-120	1	20
Nickel	26.04	52.36	91	45-134	3	38
Selenium	52.08	47.37	91	67-120	1	27
Silver	10.42	9.176	88	66-120	2	30
Thallium	52.08	45.29	87	62-120	1	20
Vanadium	26.04	48.99	89	55-137	1	30
Zinc	26.04	42.33	93	38-146	13	36

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	205271
Lab ID:	QC716952	Prepared:	11/20/13
Matrix:	Soil	Analyzed:	11/20/13
Units:	mg/Kg		

Result	RL
ND	0.017

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	205271
Matrix:	Soil	Prepared:	11/20/13
Units:	mg/Kg	Analyzed:	11/20/13
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC716953	0.2083	0.2012	97	80-120		
BSD	QC716954	0.2083	0.2047	98	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1386.001.01.003	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	SB14-3.5	Batch#:	205271
MSS Lab ID:	250732-003	Sampled:	11/09/13
Matrix:	Soil	Received:	11/12/13
Units:	mg/Kg	Prepared:	11/20/13
Basis:	as received	Analyzed:	11/20/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC716955	0.06011	0.2016	0.2371	88	72-135		
MSD	QC716956		0.2049	0.3893	161 *	72-135	47 *	42

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205380
Field ID:	SB12-2.0	Sampled:	11/08/13
Matrix:	TCLP Leachate	Received:	11/12/13
Units:	ug/L	Prepared:	11/21/13
Diln Fac:	10.00	Analyzed:	11/22/13

Type	Lab ID	Result	RL
SAMPLE	250734-017	1,100	50
BLANK	QC717362	ND	50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	EPA 3010A
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205380
Field ID:	SB16-7.5	Sampled:	11/09/13
MSS Lab ID:	250732-008	Received:	11/12/13
Matrix:	TCLP Leachate	Prepared:	11/21/13
Units:	ug/L	Analyzed:	11/22/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC717363		2,000	2,062	103	78-120			1.000
BSD	QC717364		2,000	2,056	103	78-120	0	20	1.000
MS	QC717365	1,840	2,000	4,024	109	68-120			10.00
MSD	QC717366		2,000	4,042	110	68-120	0	24	10.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	WET
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	11/08/13
Matrix:	WET Leachate	Received:	11/12/13
Units:	ug/L	Prepared:	11/22/13
Diln Fac:	10.00	Analyzed:	11/22/13
Batch#:	205421		

Field ID	Type	Lab ID	Result	RL
SB7-8.0	SAMPLE	250734-002	39,000	250
SB12-2.0	SAMPLE	250734-017	12,000	250
	BLANK	QC717527	ND	250

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250734	Location:	6701 Shellmound, Emeryville
Client:	PES Environmental, Inc.	Prep:	WET
Project#:	1386.001.01.003	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	205421
Field ID:	ZZZZZZZZZZ	Sampled:	11/07/13
MSS Lab ID:	250978-001	Received:	11/07/13
Matrix:	WET Leachate	Prepared:	11/22/13
Units:	ug/L	Analyzed:	11/22/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC717528		2,000	1,930	97	78-120			1.000
BSD	QC717529		2,000	1,961	98	78-120	2	20	1.000
MS	QC717530	13,640	10,000	23,020	94	68-120			10.00
MSD	QC717531		10,000	22,360	87	68-120	3	24	10.00

RPD= Relative Percent Difference

DISTRIBUTION

SUPPLEMENTAL SUBSURFACE INVESTIGATION REPORT
6701, 6705, and 6707 SHELLMOUND STREET
EMERYVILLE, CALIFORNIA

JANUARY 13, 2014

COPY NO. ____

		Copy No.
4 Copies	AvalonBay Communities, Inc. 400 Race Street, Suite 200 San Jose, California 95126 Attention: Jeff White	1 – 4
2 Copies	PES Files	5 – 6
1 Copy	Unbound Original	7

LOS ANGELES
355 SOUTH GRAND AVENUE
LOS ANGELES, CALIFORNIA 90071
(213) 626-1717
FACSIMILE: (213) 625-5704

SAN JOSE
50 WEST SAN FERNANDO STREET
SAN JOSE, CALIFORNIA 95113
(408) 295-3210
FACSIMILE: (408) 295-2612

PETTIT & MARTIN
ATTORNEYS AT LAW
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS
101 CALIFORNIA STREET
SAN FRANCISCO, CALIFORNIA 94111-5881
(415) 434-4000
FACSIMILE: (415) 982-4608
TELEX: WU 330443 PEMLAWSFO

SENDER'S DIRECT DIAL NUMBER

NEWPORT BEACH
4695 MACARTHUR COURT
NEWPORT BEACH, CALIFORNIA 92660
(714) 476-7676
FACSIMILE: (714) 476-0117

WASHINGTON, D.C.
601 THIRTEENTH STREET, N.W.
WASHINGTON, D.C. 20005
(202) 637-3600
FACSIMILE: (202) 637-3699

February 1, 1995

HAZMAT
95 FEB -2 PM 3:14

Ms. Susan Hugo
Alameda County Health Care
Services Agency
Division of Hazardous Materials
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94501

Re: Recorded Deed Notice Pursuant to
Work Plan and Revised Request for "No Further Action"
Alternative Compliance Points Monitoring Program
6707 Bay Street
Emeryville, California

Dear Ms. Hugo:

Pursuant to the terms of the October 18, 1994 Work Plan and Revised Request for "No Further Action" ("Work Plan") for the above-referenced site and your December 30, 1994 letter to James McClay and Charles Tsou in response, I am providing you with a copy of the recorded deed notice signed by John Nady as owner. By copy of this letter I am also providing a copy of the recorded deed notice to the City of Emeryville Planning and Building Department as requested in your December 30, 1994 letter. The deed notice is in the form submitted on October 18, 1994 as part of the Work Plan.

Should you have any questions regarding the enclosed notice or any other aspect of the Work Plan's implementation,

please give Bill Rudolph or me a call. Thank you for your cooperation and assistance throughout the approval process.

Very truly yours,

Brian F. Berger

BFB:lk:7092B
Enclosure

cc: City of Emeryville
Planning and Building Department (with enclosure)
James J. McClay III (with enclosure)
John Nady (with enclosure)
William Rudolph (with enclosure)
John L. Boos, Esq. (without enclosure)
D. Kirk Jamieson, Esq. (without enclosure)

COPY OF DOCUMENT RECORDED
ON JAN 25 1995 AS NO. 95016143
HAS NOT BEEN COMPARED WITH ORIGINAL
ALAMEDA COUNTY RECORDER

When recorded send to:
Brian Berger
101 California Street, Suite 3500
San Francisco, California 94111

NOTICE

Re: 6707 Bay Street
Emeryville, California

NOTICE is hereby given that extensive environmental investigations have been conducted on the property commonly known as 6707 Bay Street, Emeryville, California, a legal description of which is attached as Exhibit A hereto. These investigations have included analyzing soil and groundwater for the presence of hazardous substances. The investigations indicated that a number of hazardous substances exist within soil and groundwater at the site due to (1) the fact that the site is a reclaimed portion of San Francisco Bay initially used as an uncontrolled landfill and (2) subsequent industrial use of the site which included the installation of underground storage tanks (removed in 1989) which apparently released some portion of their contents, including certain volatile organic compounds, into the surrounding soil and groundwater. Substances detected include heavy metals, volatile organic compounds, petroleum hydrocarbons and semi-volatile organic compounds. Complete summaries of the substances detected in soil and groundwater are presented in the following documents prepared by Subsurface Consultants, Inc. (SCI):

1. Summary of Environmental Investigation/Remediation, 6707 Bay Street, Emeryville, California, dated May 23, 1994.

2. Supplemental MIBK Contamination Assessment, 6707 Bay Street, Emeryville, California, SCI 820.001, dated September 21, 1994.

These documents are contained within the public record, and are on file at the Alameda County Health Care Services Agency Environmental Health Services Department. Because of the presence of these substances, the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board for the San Francisco Bay Region have imposed the following conditions and/or restrictions on the use of the property:

1. If soil is excavated, it may be considered hazardous waste under state and federal law;

2. Groundwater from the site is not usable for domestic, irrigation or industrial purposes.

3. If future construction includes structures extending below the groundwater level (that being approximately 7 to 10 feet), groundwater generated during dewatering operations will require treatment prior to discharge;

4. An approved Health and Safety Plan will be required by the Alameda County Health Care Services Agency (ACHCSA) prior to any work requiring significant subsurface excavations; and

5. An environmental risk assessment may be required by the ACHCSA if any significant change in land use is proposed.

Dated: Oct 20, 1994, 1994 By: John Nady
John Nady
OWNER

State of California)
) SS.
County of San Francisco)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

No. 5907

State of CALIFORNIA

County of ALAMEDA

On OCTOBER 20TH 1994 (DATE) before me, JOGINDER SINGH SOND NOTARY PUBLIC (NAME, TITLE OF OFFICER - E.G., "JANE DOE, NOTARY PUBLIC")

personally appeared JOHN NADY (NAME(S) OF SIGNER(S))

☐ personally known to me - **OR** - ☑ proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

OFFICIAL SEAL
Joginder Singh Sond
NOTARY PUBLIC - CALIFORNIA
ALAMEDA COUNTY
My Comm. Expires Jan. 17, 1995

WITNESS my hand and official seal.

Joginder Singh Sond

SIGNATURE OF NOTARY

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

☐ INDIVIDUAL
☐ CORPORATE OFFICER

TITLE(S)

☐ PARTNER(S) ☐ LIMITED ☐ GENERAL
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☒ OTHER: OWNER

SIGNER IS REPRESENTING:
NAME OF PERSON(S) OR ENTITY(IES)

DESCRIPTION OF ATTACHED DOCUMENT

ENVIRONMENTAL REMEDIATION NOTICE
TITLE OR TYPE OF DOCUMENT

NUMBER OF PAGES

10-20-94
DATE OF DOCUMENT

NONE
SIGNER(S) OTHER THAN NAMED ABOVE

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On this the __ day of October, 1994, before me, _____, the undersigned Notary Public, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged that he executed it.

WITNESS my hand and official seal.

_____

Notary's Signature

EXHIBIT A

ORDER NO. 101577

90070780

The land referred to in this report is situated in the state of California, County of ALAMEDA, and is described as follows:

CITY OF BERKELEY AND CITY OF EMERYVILLE

PARCEL 1:

COMMENCING AT A POINT ON THE WESTERN LINE OF BAY STREET, AS SAID STREET IS SHOWN ON THE MAP OF MAXWELL TRACT, FILED SEPTEMBER 19, 1872, MAP BOOK 5, PAGE 21, ALAMEDA COUNTY RECORDS, AT THE NORTHERN EXTREMITY OF THAT CERTAIN CURVE HAVING A RADIUS OF 32.00 FEET, WHICH CONNECTS THE SAID LINE OF BAY STREET WITH THE NORTHERN LINE OF 65TH STREET, AS SET FORTH IN THE DEED TO STATE OF CALIFORNIA, RECORDED DECEMBER 11, 1953, SERIES NO. AH/108?8, BOOK 7203 OFFICIAL RECORDS, PAGE 513, CONTAINING 4.589 ACRES; THENCE ALONG THE SAID LINE OF BAY STREET NORTH 10° 40' 15" WEST 395.18 FEET TO THE SOUTHERN EXTREMITY OF THAT CERTAIN COURSE DESIGNATED AS "SOUTH 10° 40' 15" EAST 297.16 FEET" IN SAID DEED TO THE STATE OF CALIFORNIA; THENCE ALONG THE EXTERIOR BOUNDARY LINE OF THE SAID 4.589 ACRE PARCEL OF LAND NORTHERLY ALONG THE ARC OF A CURVE TO THE LEFT, WITH A RADIUS OF 4970.00 FEET, FROM A TANGENT WHICH BEARS NORTH 10° 40' 15" WEST A DISTANCE OF 137.99 FEET TO A POINT ON A LINE DRAWN PARALLEL WITH THE NORTHERN BOUNDARY LINE OF THAT CERTAIN PARCEL OF LAND DESIGNATED AS PARCEL 1 IN DEED OF TRUST MADE BY HENRY SHAPIRO, ET AL., TO ALAMEDA COUNTY-EAST BAY TITLE INSURANCE COMPANY, A CORPORATION, TRUSTEE, RECORDED OCTOBER 26, 1956, SERIES NO. AL/112672, BOOK 8188 OFFICIAL RECORDS, PAGE 307, DISTANT 170.00 FEET NORTHERLY THEREFROM, MEASURED AT RIGHT ANGLES THERETO, SAID LAST MENTIONED POINT BEING THE ACTUAL POINT OF BEGINNING; THENCE ALONG THE EXTERIOR BOUNDARY LINE OF THE SAID 4.589 ACRE PARCEL OF LAND THE FIVE FOLLOWING COURSES AND DISTANCES: NORTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, WITH A RADIUS OF 4970.00 FEET, A DISTANCE OF 83.44 FEET, THENCE NORTH 13° 12' 53" WEST 184.31 FEET, THENCE NORTHERLY, NORTHWESTERLY AND WESTERLY ALONG THE ARC OF A CURVE TO THE LEFT, WITH A RADIUS OF 45.00 FEET, TANGENT TO THE SAID LAST MENTIONED COURSE, A DISTANCE OF 77.84 FEET, THENCE SOUTH 67° 40' 58" WEST 232.70 FEET, AND THENCE SOUTHWESTERLY ALONG THE ARC OF A CURVE TO THE LEFT, WITH A RADIUS OF 640.00 FEET, FROM A TANGENT WHICH BEARS SOUTH 54° 30' 18" WEST, A DISTANCE OF 267.23 FEET, TO A POINT ON SAID PARALLEL LINE SO DRAWN; THENCE ALONG THE SAID PARALLEL LINE SO DRAWN NORTH 88° 51' 33" EAST 516.63 FEET TO THE ACTUAL POINT OF BEGINNING.

PARCEL 2:

A NON-EXCLUSIVE, PERPETUAL EASEMENT, APPURTENANT TO AND FOR THE USE OF THE OWNER OR OWNERS OF PARCEL 1 HEREIN DESCRIBED, AND ANY SUBSEQUENT SUBDIVISION OR SUBDIVISIONS THEREOF, WITH THE RIGHT AND PRIVILEGE TO CONSTRUCT, REPAIR, REPLACE, MAINTAIN AND USE A SEWER

EXHIBIT A

ORDER NO. 101577

90070780

"CONTINUED"

OVER, ACROSS AND UNDER A STRIP OF LAND 5.00 FEET WIDE, TOGETHER WITH THE RIGHT OF INGRESS THERETO AND EGRESS THEREFROM, FOLLOWING DESCRIBED PARCEL OF LAND:

A PORTION OF THAT CERTAIN PARCEL OF LAND DESIGNATED AS PARCEL 1 IN DEED TO SARONI PROPERTIES, INC., A CORPORATION, RECORDED DECEMBER 4, 1958, SERIES NO. AP/127666, BOOK 8865 OFFICIAL RECORDS, PAGE 301, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWESTERN CORNER OF SAID PARCEL 1; THENCE ALONG THE NORTHWESTERN BOUNDARY LINE THEREOF THE TWO FOLLOWING COURSES AND DISTANCES: SOUTHWESTERLY ALONG THE ARC OF A CURVE TO THE LEFT WITH A RADIUS OF 640.00 FEET, FROM A TANGENT WHICH BEARS SOUTH 30° 34' 38" WEST, A DISTANCE OF 2.75 FEET, AND THENCE SOUTH 30° 20' WEST TANGENT TO THE SAID LAST MENTIONED ARC, 191.98 FEET TO A POINT ON THE SOUTHERN BOUNDARY LINE THEREOF; THENCE ALONG THE SAID LAST MENTIONED LINE SOUTH 88° 51' 33" EAST 5.72 FEET TO A POINT ON A LINE DRAWN PARALLEL WITH THE SAID NORTHWESTERN BOUNDARY LINE AND DISTANT 5.00 FEET SOUTHEASTERLY THEREFROM, MEASURED AT RIGHT ANGLES THERETO; THENCE ALONG THE SAID PARALLEL LINE SO DRAWN THE TWO FOLLOWING COURSES AND DISTANCES: NORTH 30° 20' EAST 189.19 FEET, AND THENCE NORTHEASTERLY ALONG THE ARC OF A CURVE TO THE RIGHT WITH RADIUS OF 635.00 FEET, TANGENT TO THE SAID LAST MENTIONED COURSE 5.04 FEET, MORE OR LESS, TO A POINT ON THE NORTHERN BOUNDARY LINE OF SAID PARCEL 1: THENCE ALONG THE SAID LAST MENTIONED LINE NORTH 88° 51' 33" WEST 5.72 FEET, MORE OR LESS, TO THE POINT OF BEGINNING.

ASSESSOR'S PARCEL NO. 049-1490-002

DRAFT

ENVIRONMENTAL ASSESSMENT
6707 BAY STREET
EMERYVILLE, CALIFORNIA

Prepared for:

392-5431

Mr. Robert P. Gates
Erskine and Tulley
580 Market Street
San Francisco, California
94104

Prepared by:

SCS Engineers
6761 Sierra Court
Suite D
Dublin, California
94568

January 30, 1990

File No. 0389058.00

90 AUG 21 AM 11:00

Environmental Consultants

6761 Sierra Court
Suite D
Dublin, CA 94568

415 829-0661
FAX 415 829-5493

SCS ENGINEERS

January 30,1990
File No. 0389058.00

Mr. Robert P. Gates
Erskine & Tulley
580 Market Street
San Francisco, California

Subject: Environmental Assessment
6707 Bay Street
Emeryville, California

Dear Mr. Gates:

SCS Engineers is pleased to provide this report of environmental services rendered at the 6707 Bay Street site in Emeryville, California (see Vicinity Map, Plate 1).

This report has been specifically prepared as a hazardous site investigation for Mr. Robert P. Gates of Erskine and Tulley, attorney for Mike Roberts Color Productions. Mr. Gates, Erskine & Tulley or Mike Roberts Color Productions shall not use this report for any purpose other than that for which this document was prepared. The report has been prepared with the care and skill generally exercised with reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

Attached is a copy of the report. If you have any questions, please contact either of the undersigned at (415) 829-0661.

Very truly yours,

Don McClenagan

J. Don McClenagan
Staff Geologist
SCS Engineers

John P. Cummings

John P. Cummings, Ph.D., R.E.A., R.E.P.
Office Director
SCS Engineers

JDM/JPC/sar

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I. INTRODUCTION

On December 15, 1989 SCS Engineers submitted a proposal to Robert Gates of Erskine and Tulley to perform a site investigation at 6707 Bay Street in Emeryville, California. The subject parcel was formerly occupied by Mike Robert's Color Production. Plate 1 is a vicinity map pinpointing the location of the subject site.

An off-site investigation consisting of a data review from private, local, state, and federal agencies was conducted in order to establish an environmental baseline of the site and surrounding area. Several visits to the site were made by SCS personnel. A site reconnaissance was conducted by John Cummings of SCS Engineers. The reconnaissance consisted of a walk around and through the entire parcel and surrounding area and a "windshield" survey of the streets within two blocks of the subject site. The physical characteristics of the site and surrounding were observed and noted.

SCS Engineers also conducted a subsurface investigation of the parcel consisting of the boring and installation of two monitoring wells, the advancement of five other soil borings, and the sampling of six groundwater monitoring wells on site. The field work for this investigation was performed from January 3 through January 10, 1990.

Summary

Contamination of both the vadose zone (the zone of aeration above the water table) and the groundwater is present beneath the subject parcel. All soil samples analyzed tested positive for oil and grease. Diesel and minor amounts of PCBs were detected in some of the soil samples. Analysis for the CAM metals detected metals in many of the soil samples. Low amounts of volatile or semi-volatile organic substances were found. Soil sample results are presented in Tables 1-5; laboratory reports are included in Appendix 2.

Water sample analyses detected little or no contamination in most of the wells. Exceptions were: MW7 contained some oil and grease contaminants, and MW8 contained high amounts of methyl isobutyl keytone (MIBK) and total petroleum hydrocarbons (TPH).

II. PRESENT USE OF THE SITE AND SURROUNDING LAND

The subject parcel consists of an office building with an adjoining warehouse, previously used for printing operations. Hazardous chemicals left over from printing operations are stored in 55-gallon drums on the west side of the property. The drum storage area is on asphalt that slopes toward the west property line. See Plate 1 for the location of the site.

These materials have been categorized and removed from the site for final disposal.

The office building and office space in the adjoining warehouse has what appears to be vinyl asbestos tile (VAT) and acoustical tile which may contain asbestos in the ceilings of the suspected office space. None of the material in the building was found to be friable. The suspected asbestos containing material (ACM) does not appear to be a health hazard. If the material is ACM, it would only present a health hazard during demolition or remodeling of the building. Otherwise, the building appears to be free of environmental hazards. The waste inks, oils, and solvents, as mentioned earlier, have been moved to the rear area. They were categorized as to the hazard risk and will be destroyed by proper disposal.

The subject parcel is bounded on the west and north by the Ashby Avenue off-ramp of northbound I-80, on the east by Bay Street, and on the south by a trucking company (Votainer, 6603 Bay Street). MRCP and Votainer are zoned C-O, for commercial/office uses. The Berkeley Aquatic Park is located immediately north of Ashby Avenue. East of the subject site, past Bay Street, is the Southern Pacific railroad easement, and beyond that, various warehousing facilities. Generally, areas surrounding the subject parcel are used for light and heavy industrial, newly constructed office space, and light residential.

Several properties within one mile of the subject parcel have documented hazardous materials releases that have adversely affected groundwater. Plate 1 illustrates the site vicinity as well as groundwater contamination cases within approximately one mile of the subject parcel.

III. ENVIRONMENTAL IMPACT LISTS REVIEW

Superfund Sites

The National Priorities List (NPL), derived from Superfund Sites listed under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) was reviewed for sites within one mile of the subject parcel. There were no sites on the NPL within one mile of the subject parcel.

Bond Expenditure Plan (BEP)

The BEP list was reviewed for sites within one mile of the subject parcel. None were found.

CERCLIS Sites

CERCLIS, an acronym for California Environmental Response Compensation and Liability Information System, is a list derived from the names of facilities from the NPL or facilities

which have been reported to the EPA by State Agencies as having a hazardous materials release. The following six (6) sites were found on the CERCLIS list and are within one mile of the subject parcel.

1. American Bitumals and Asphalt
   1520 Powell Street, Emeryville

2. Capitol Ref. Co.
   Foot of 64th Street, Emeryville

3. Emeryville Market Place
   Between 64th Street, Powell Street, I80 and the SP Railroad Tracks

   Companies Included:

   Pabco/Fiberboard Site
   NE Quadrangle of Eastshore Freeway
   Pacific Union Co. Site
   Westinghouse Emeryville

4. Baum Electrolab
   800 Bancroft Way, 2nd Floor, Berkeley

5. Berkeley Ind Court
   729 Heinz Avenue, Berkeley

6. Matrecon Inc.
   2424 4th Street, Berkeley

North Bay Toxics List

This list is provided by the Regional Water Quality Control Board (RWQCB) and includes groundwater contamination cases in the North Bay Area that are being handled by the San Francisco RWQCB and the California Department of Health Services (DHS). The following thirteen (13) sites within a mile of the subject parcel were noted in the North Bay Toxics List.

1. Carleton Business Center
   2700 7th Street, Berkeley

2. Chevron Asphalt Plant
   1520 Powell Street, Emeryville

3. Chevron Emeryville Terminal

Corner of Landregan and Powell Streets, Emeryville

4. Colgate Palmolive
Corner of 7th and Carleton Streets, Berkeley

5. Garrett Freight Lines
Corner of 64th and LaCoste Streets, Emeryville

6. Macaulay Foundry, Inc.
811 Carleton Street, Berkeley

7. Emeryville Market Place
Unknown, Emeryville

8. Meyer Sound
2832 San Pablo Avenue, Berkeley

9. Michel and Pelton
5743 Landregan Street, Emeryville

10. Pie Nationwide
5500 Eastshore Freeway, Emeryville

11. Temescal
2850 7th Street, Berkeley

12. J.C. Berkeley
Murray Street/Folger Avenue/7th Street, Berkeley

13. Westinghouse
5899 Peladeau, Berkeley

Cortese List Sites

The Cortese List is an inventory of identified hazardous waste and/or hazardous substance sites consolidated by the California State Office of Planning and Research (OPR) from data received from the State Department of Health Services, the State Water Resources Control Board and the California Waste Management Board pursuant to AB 3750 (Cortese) Government code Section 65940. The list is distributed to all county planning departments to assist in the development of properties within the county. The most recent Cortese List available (March 1989) was reviewed to identify sites within approximately one mile of the subject parcel. The following four (4) facilities on the Cortese List were

within one mile of the subject parcel.

1. Westinghouse
   5899 Peladeau Street, Emeryville

2. Auto Repair
   2378/2366 San Pablo Avenue, Berkeley

3. Warren Properties
   2900 5th Street, Berkeley

4. Warren Properties
   700 Heinz Avenue, Berkeley

SWIS List

A review of the California Waste Management Board (CWMB) Solid Waste Information Systems (SWIS) was performed to ascertain whether or not any landfills and/or transfer stations were within approximately one mile of the subject parcel. No active/inactive landfills or transfer stations within one mile of the subject parcel were in the SWIS list.

Hazardous Waste TSD Facilities

The California Department of Health Services, Toxic Substances Division, Hazardous Waste Information System, supplies information on companies that Treat, Store or Dispose (TSD) of hazardous wastes. The following business, within a mile of the subject parcel, was on the TSD list:

1. Pfizer Pigments, Inc.
   4650 Shellmound Street, Emeryville

Abandoned Site Program Information System (ASPIS)

Previously owned properties that may or may not contain some form of contamination are discovered by Rural County Surveys and reported to the DHS. Vacant lots and unoccupied buildings are commonly found on this list. The DHS supplies to the public a list (ASPIS list) containing the name, address and status of pertinent properties. The following facilities within a mile of the subject parcel were on the list.

1. Acutherm
   1800 Powell Street #930, Emeryville
   Status: NFA
2. American Manufacturing Co.
   5854 Hollis Street, Emeryville
   Status: NFA

3. Brass Beds
6290 Overland, Emeryville
Status: NFA

4. California Photo
5440 Hollis Streets, Emeryville
Status: NFA

5. Capitol Refining
Foot of 64th Street, Emeryville
Status: NFA

6. Chevron Emeryville Terminal
1520 Powell Street, Emeryville
Status: SIRH

7. Clearprint Paper Co.
1482 67th Street, Emeryville
Status: NFA

8. Curtis Pacific
1345 Powell Street, Emeryville
Status: NFA

9. Durlo Co.
1333 62nd Street, Emeryville
Status: NFA

10. East Coast Specialties
1601 63rd Street, Emeryville
Status: NFA

11. No Name, Bounded by:
Powell Street, Highway I80, 64th Street, SP Railroad Tracks, Emeryville
Status: NFA

12. Esselette Pendaflex
6701 Bay Street, Emeryville
Status: NFA

13. Falcon Explorations Co.
1900 Powell Street #530, Emeryville
Status: NFA

14. Fiberboard
1550 Powell Street, Emeryville
Status: NFA

15. Fisher Berkeley
5800 Christie Avenue, Emeryville
Status: NFA

16. George M. Martin
1250 67th Street, Emeryville
Status: PAL

17. H.B. Chapman
1400 53rd Street, Emeryville
Status: NFA

18. Industrial Hard Chrome
5701-5705 Hollis Street, Emeryville
Status: SIRL

19. Intermodal Transportation Service, Inc.
6901 Christie #405
Status: NFA

20. ITT Grinnell Property
6121 Hollis Street, Emeryville
Status: SIRM

21. Jason Products Co.
1260 53rd Street, Emeryville
Status: NFA

22. Karmichael Industries
5540 Doyle Street, Emeryville
Status: NFA

23. Maud M. Truckline
6245 Christie Avenue, Emeryville
Status: NFA

24. Market Place
Christie at Shellmound, Emeryville
Status: NFA

25. Metalco.
1475 67th Street, Emeryville
Status: NFA

26. Monarch Tool and Engineering Inc.
1483 67th Street, Emeryville
Status: NFA

27. Pfizer, Inc.
4650 Shellmound, Emeryville
Status: PDS

28. Pie/Nationwide Truck Facility
5500 Eastshore Freeway, Emeryville
Status: PDS

29. Provenzand and Associates
1303 Stanford Avenue, Emeryville
Status: PAL

30. Rix Industries
6460 Hollis Street, Emeryville
Status: NFA

31. Scientific Mfg. Industries
1399 64th Street, Emeryville
Status: NFA

32. Selective Automation, Inc.
1455 64th Street, Emeryville
Status: NFA

33. Sybron/Kerr
5770 Shellmound Street, Emeryville
Status: NFA

34. Utility Products, Inc.
1212 Powell Street, Emeryville
Status: NFA

35. Vacu-Dry Company
5801 Christie Avenue, Emeryville
Status: NFA

36. Westinghouse
5899 Peladeau Street, Emeryville
Status: SUPD

37. A.W. Tool And Development
2610 Ninth Street, Berkeley
Status: NFA

38. Airco Temescal
2850 7th Street, Berkeley
Status: NFA

39 Airway Trucking
840 Potter Street, Berkeley
Status: NFA

40. Amerpak
780 Heinz Avenue, Berkeley
Status: NFA

41. Barr Chemical Products, Inc.
2748 9th Street, Berkeley
Status: NFA

42. Berkeley Industrial Court
729 Heinz Avenue, Berkeley
Status: PDS

43. Colgate Palmolive Co.
2700 7th Street, Berkeley
Status: NFA

44. Counter Measure Systems
2612 8th Street, Berkeley
Status: NFA

45. Dura Belting
715 Heinz Avenue, Berkeley
Status: NFA

46. East Bay Steel Products
900 Murray Street, Berkeley
Status: NFA

47. Edward Koehn Co., Inc.
820 Folger Street, Berkeley
Status: NFA

48. Electrocoating, Inc. - Plant 21
893 Carleton Street, Berkeley
Status: SIRI

49. Emerald Packing
2821 10th Street, Berkeley
Status: NFA

50. Gibbs Plastics
2331 4th Street, Berkeley
Status: NFA

51. I & B Enterprises
890 Heinz Avenue, Berkeley
Status: NFA

52. I Chem Research
2470 5th Street, Berkeley
Status: NFA

53. Ignition Systems
2547 8th Street, Berkeley
Status: NFA

54. Kowal Mfg.
2414 6th Street, Berkeley
Status: NFA

55. Krunz Inc.
Ashby at 6th Street, Berkeley
Status: NFA

56. Lektra Lighting, Inc.
2455 4th Street, Berkeley
Status: NFA

57. Lesea Surveying Co., Inc.
2437 6th Street, Berkeley
Status: NFA

58. Macy Movers, Inc.
2865 7th Street, Berkeley
Status: NFA

59. Matrecon, Inc.
2424 4th Street, Berkeley
Status: NFA

60. Model Airplane Motors
2332 5th Street, Berkeley
Status: NFA

61 Pacific Coast Chemicals
2444 4th Street, Berkeley
Status: NFA

62 Proen Products Co.
2777 9th Street, Berkeley
Status: NFA

63. R W Scott & Co.
2320 5th Street, Berkeley
Status: NFA

64. Reliance Sheet and Strip Co.
722 Folger Avenue, Berkeley
Status: NFA

65. Rheodyne
2804 10th Street, Berkeley
Status: NFA

66. Tienson Engraving Co.
2816 8th Street, Berkeley
Status: NFA

67. Warehouse Properties
2900 5th Street, Berkeley
Status: SUPD

Status Explanation:

NFA - No Further Action required
SIRH - Site Investigation Required, High Priority
PAL - Preliminary Assessment, Low Priority
PDS - Pending Status
SUPD - On the Superfund NPL

Fuel Investigations

A review of the fuel release files at the Regional Water Quality Control Board (RWQCB) in Oakland, California was performed to determine the magnitude of fuel releases (i.e. leaks or spills) at facilities near the subject parcel. The files are not always up to date and occasionally files are unavailable. The following facilities on the RWQCB fuel release list were within approximately one mile of the subject parcel.

1. AC Transit
47th Street and San Pablo Avenue, Emeryville

A leaking Underground Storage Tank (UST) contaminated adjacent soil and groundwater with gasoline. Soil was excavated and a groundwater monitoring well installed. In January 1987 groundwater analyzed by a laboratory contained 0.06 mg/l benzene and less than 1 part per million (ppm) of Total Petroleum Hydrocarbons (TPH).

2. A & J Trucking
5600 Shellmound Emeryville

A leaking 1000-gallon gasoline tank was removed in March 1989, and laboratory analysis showed soil samples from the tank pit containing 20 ppm benzene.

3. Bay Export Service
7th and Potter Streets, Berkeley

A leaking UST contaminated groundwater with 4200 parts per billion (ppb) gasoline, 260 ppb benzene, and 1000 ppb ethylbenzene. The tank was removed in March 1988.

4. Berkeley Business Center
2900 San Pablo

A heavy fuel leaked from a UST piping system and contaminated adjacent soils with 1000 ppm of Total Petroleum Hydrocarbons (TPH). The three on-site groundwater monitoring wells showed no signs of gasoline contamination; however, an upgradient well showed 530

ppb of TCE. This implies that the on-site groundwater is not contaminated with petroleum hydrocarbons, and the TCE contamination may have originated off-site.

5. Berkeley Farms
1313 53rd Street, Emeryville

In March 1988 three gasoline USTs were removed and adjacent soil showed negligible amounts of gasoline contamination.

6. Berkeley Hydraulic Service
7th Street and Potter Street

A 2000-gallon gasoline UST was removed in April 1988. One monitoring well installed in the center of the tank pit backfill showed contaminant levels below action levels.

7. Berkeley Pump Project
Bancroft Way and 5th Street, Berkeley

An on-site monitoring well sampled in March 1989 contained 2300 ppb TPH and 1100 ppb kerosene.

8. Carleton Business Center
2700 7th Street, Berkeley

In March 1989 a 1000-gallon UST was removed after a leak contaminated the soil with 3600 ppm gasoline and 37 ppm (ppm or ppb) benzene. As per this file review it is undetermined if the groundwater was affected by this fuel release.

9. Chevron
2995 San Pablo Avenue, Berkeley

Chlorinated solvents were found in on-site soil and groundwater at maximum concentrations of 20,000 ppm in the soil and 13,000 ppm in the groundwater. The solvents discovered in groundwater monitoring wells include: Tetrachloroethylene (PCE), Trichloroethylene (TCE), Dichloroethylene (DCE) and Dichloroethane (DCA). In January 1989, 15 parts per billion (ppb) of 1, 2 DCA were discovered in on-site groundwater.

10. Chronicle Depot
2817 - 7th Street, Berkeley

One underground (UST) was removed in May 1989. The RWQCB file on this site did not have information describing whether or not the soil and groundwater was adversely affected.

11. Coburn Construction
1006 Pardee Street, Berkeley

An underground storage tank was removed in November 1986, and a subsequent consultants report in June 1987 showed groundwater containing 2900 ppb of Total Petroleum Hydrocarbons.

12. Durkee Wareham
700 Heinz Avenue, Berkeley

A report from a private consultant to Durkee Wareham showed that a black caustic liquid was discovered in a drainage pond on Southern Pacific easement, downgradient (southwest) of the Durkee parcel. The pre-mentioned report dated 2/27/86, had no data as to whether or not the caustic liquid has affected the groundwater. Low levels (less than DHS & RWQCB action levels) of PCB's, Diesel and Hydrocarbons were discovered in the groundwater beneath the adjacent parcel, located at 2900 5th Street.

13. Emeryville Bayfront Postal
1650 - 65th Street, Emeryville

Leaking gasoline from an UST was noticed on April 27, 1989, and a consultants report following the tank removal showed maximum groundwater contamination to be 33 Mg/L (ppm) of TPH.

14. Emeryville Market Plaza
64th Street & LaCoste Street, Emeryville

Groundwater contained 630 Mg/L of TPH as a result of leaking USTs. Four tanks (containing gasoline, diesel, waste oil and lube oil) were removed from the site.

15. Folger Murphy Property
1020 Murray Street, Berkeley

A leak in a UST was discovered on August 18, 1988, and the tank has since been removed. No other information was available on this site.

16. Garrett Freight Line
64th Street and LaCoste Street, Emeryville

This site had an unknown number of USTs and drums removed. No data was available as to whether or not the groundwater has been affected.

17. Gary Steel/Ducomman Metal
2560 - 7th Street, Berkeley

A leaking diesel tank, discovered on May 30, 1986, caused the soil and groundwater to be contaminated. Maximum soil concentration was 2200 ppm of TPH; however, the magnitude of groundwater contamination was not known at the time of file review.

18. Getzs Construction
1351 Ocean Avenue, Emeryville

An on-site monitoring well, sampled April 5, 1989, contained 120,000 ppb of diesel, as a result of a leaking 10,000-gallon UST. Remediation methods for soil and groundwater are being considered.

19. Henry Horn & Sons
1301 - 65th Street, Emeryville

Peterson Properties

As a result of leaking gasoline USTs, groundwater at this site has been contaminated with gasoline. A consultants report dated August 15, 1989, showed that the groundwater contained 1400 ppm TPH, 100 ppb 1,2-DCE, 52 ppb TCE and 21 ppb benzene.

20. HFH Limited
6400 Hollis Street, Emeryville

A 2000-gallon gasoline tank was removed and a subsequent laboratory report submitted in April 1986 showed levels of soil contamination to be less than the DHS action levels.

21. Hollis Street Project
6050 Hollis Street, Emeryville

A 200 gallon tank was removed in June 1987, and the presence of gasoline prompted the installation of a monitoring well. No data was available on the groundwater quality during this file review.

22. Leopard Trading Co.
6601 Bay Street, Emeryville

On August 23, 1989 a leak in a 6000 gallon diesel underground tank was discovered. The groundwater has been affected by the fuel released and a remediation plan is in the making.

23. Macaulay Foundry
Parker Street, Berkeley

A leaking gasoline tank noticed February 5, 1987 lead to the contamination of groundwater with 78 ppm gasoline. Paint thinner at 87 ppm was also in the groundwater.

24. MacBeath Hardware
930 Ashby Avenue, Berkeley

Three USTs were removed from this site in September 1987, and subsequent soil sample analysis showed no contamination.

25. Meadows, Elwood & Clara
1440 Ashby Avenue, Berkeley

On December 10, 1986 a private consultant submitted a report describing the presence of 1.5 ppb of an unknown substance in the groundwater. No other information was available on this site.

26. Mobil
1700 Powell Street, Emeryville

Soil contained a maximum concentration of 10,000 ppb TPH as a result of a tank leak. A groundwater monitoring program has been proposed for this site.

27. Moore Property
3155 Sacramento Street, Berkeley

Groundwater monitoring has been in progress as of May 1987 due to an unauthorized fuel release.

28. Nielson Property
5800 Shellmound Avenue, Emeryville

Soil on this site is contaminated as a result of a leaking 10,000-gallon tank. Whether or not the groundwater is affected has not been determined; however, the contaminated soil is presently being bio remediated on-site.

29. Nomura Brothers, Inc.
2720 San Pablo Avenue, Berkeley

On-site groundwater monitoring wells contained 1.5 ppm of TPH, which is less than the DHS action level.

30. Oliver and Co.
1035 Carleton Street, Berkeley

A tank was removed on April 10, 1987 and one monitoring well was installed May 1987 downgradient from the tank. Soil and groundwater contained non detectable levels of contamination.

31. Pahlmeyer
2700 San Pablo Avenue, Berkeley

A gasoline tank leak, noticed June 10, 1988 caused groundwater to be contaminated with 2.3 ppm of benzene. Consultants to Pahlmeyer reported in July 1989 that the groundwater monitoring wells showed non detectable levels of contamination.

32. Peterson Manufacturing
1600 - 63rd Street, Emeryville

Four USTs and two former UST areas exist on-site. Maximum concentration in soil was found to be 1,300 ppb of TPH. Groundwater status is undetermined as per this review.

33. Pfizer Pigments, Inc.
4650 Shellmound Street, Emeryville

Soil samples on-site ranged from 50 - 50,000 ppb of oil and grease, which originated from a waste oil UST leak. Groundwater contained only trace amounts of oil and grease.

34. P Q Corporation
801 Grayson Street, Berkeley

Two tanks on site were suspected of leaking; however, soil samples obtained near the tank showed no signs of contamination.

35. Schwabacker Frey
5733 Pelladeau, Emeryville

After removing a 2000-gallon tank, consultants found that soil samples obtained in the tank pit contained 270 - 540 ppm of gasoline. Whether or not the groundwater has been affected is undetermined as per this file review.

36. Shell
1800 Powell Street, Emeryville

Six groundwater monitoring wells were installed in September of 1982 due to an unexpected fuel release. Four additional wells were installed in August of 1983 to further define the plume. Consultants to Shell prepared a report dated October 27, 1989 describing 1.5 feet of floating product in an on-site well. As per this site review the installation of monitoring wells was proposed to further define the contamination plume.

37. Studio Complex
1025 Carleton Street, Berkeley

Paint thinner and gasoline USTs were removed on November 10, 1988, and a later lab analysis of adjacent soil showed 71 ppb of paint thinner. Soil samples analyzed December 1, 1988 were clear of contamination.

38. Texaco
840 Ashby Avenue, Berkeley

Soil samples analyzed due to a suspected diesel fuel released contained 100 - 480 ppm of TPH. No groundwater data was available during this file review.

39. U C Merchant Building
6701 San Pablo Avenue, Emeryville

Soil samples taken after three tanks were removed in July 1988 contained non-detectable levels of contamination.

40. Upright, Inc.
1013 Pardee Street, Berkeley

A 1000-gallon tank that had been out of service for at least 20 years was removed, and no contamination was noted in the adjacent soils.

41. Weatherford BMW
5903 Christie Avenue, Emeryville ✓ closed

An underground tank and adjacent soil containing a maximum of 1500 ppm total oil and grease were removed on May 2, 1989. The installation of groundwater monitoring wells is being considered as per this file review.

The files on the following fuel release facilities, within a mile of the subject parcel, were not available for review.

Bay Center Project
65th Street and Christie Avenue, Emeryville

Pie Nationwide Property
5500 Eastshore Freeway, Emeryville

Super 7
Ashby Avenue, Berkeley

IV. PAST USES OF THE SITE AND SURROUNDING LAND

Aerial photographs from Pacific Aerial Surveys were obtained to determine historic uses of the subject parcel and surrounding properties. Photographs from various years between 1947 and 1988 were available for review.

The 1947 photo shows the parcel bounded by Bay Street, 64th Street and the I-80 off-ramp, to be comprised of undeveloped land and saturated soil (or water). Analysis of this photograph suggests that the pre-mentioned parcel was previously all water and was gradually filled in with various landfill materials. The subject parcel in this photo is primarily mud or water, and the land immediately south, extending to 64th Street, was used from 1940 to the late 1950s as a municipal waste dumping ground. Surrounding areas are used for various industrial purposes, which may include railroad docking, warehousing and trucking. Mixed industrial/residential areas are evident east of Hollis Street, becoming mostly residential east of San Pablo Avenue.

The next available aerial photo, taken July 7, 1959, still shows the subject parcel to be vacant; however, the property is completely filled in and a trucking company to the immediate south is evident. The landfilling area south of various warehouse buildings, which means that the municipal landfilling operations ended sometime before July, 1959. Also noticeable on this photo is the addition of freeway on/off ramps at Ashby Avenue.

The 1963 aerial photo shows the subject building. No other obvious changes in the immediate surroundings of the subject parcel are evident.

No changes in the general vicinity of the subject parcel were noticed in the 1971 and 1979 aerial photos.
The 1988 photo shows the construction of a corporate plaza bounded by 64th Street, LaCoste Street, 65th Street and Bay Street. All buildings in the pre-mentioned boundary are new except for two structures located on north-west corner of 64th and Bay Street.

Upon installation of on-site monitoring wells, an SCS geologist noticed refuse (e.g. glass, iron scraps, concrete, brick and miscellaneous organics) in the auger tailings, suggesting

that the type of landfill material used in the past, consisted of, at least in part, construction debris. The old municipal landfill, which is documented as being south of MRCP may have actually extended north to the Ashby Avenue exit, in which case it would be part of the subject parcel.

V. SUBSURFACE INVESTIGATION

On January 3 and 4, 1990, SCS Engineers supervised five soil borings and the drilling of two monitoring wells on the subject parcel at 6707 Bay Street in Emeryville. The drilling was done by Bay Area Exploration of Suisun, California. The two monitoring wells were designated MW-7 and MW-8. MW-8 was installed to satisfy regulatory requirements for a groundwater monitoring well within 10 feet of the excavated tank in a verified downgradient direction. The five borings were called B9 through B13.

On January 8, 9, and 10, 1990, SCS personnel sampled MW-7 and MW-8. Four other monitoring wells which are on the site but were not installed by SCS Engineers were also purged and sampled.

Field Methods

The drilling was accomplished using a CME 55 mobile drilling unit equipped with 10.5 inch and 5-inch hollow stem augers. MW-7 and MW-8 were drilled with the 10.5 inch augers.

Soil samples were taken at five foot intervals utilizing a 2-inch I.D. Split Spoon Modified California sampler loaded with brass sleeves. The soil samples were examined, sealed with aluminum foil, plastic end caps and tape, labeled, and placed in cold storage for transport to a state-certified laboratory.

The auger sections were steam cleaned prior to their use for advancing the borings. Auger cuttings, the soil removed during the boring, were sandwiched between two layers of 6 mil polyethylene cover. Boring logs for the wells were recorded in the field during the drilling. They document sample locations, subsurface sedimentology, depth to groundwater, and well construction details.

MW-7 was drilled to a total depth of 22 feet, and MW-8 was drilled to 21.5 feet. Both wells were constructed using 4-inch schedule 40 PVC flush-jointed casing, both blank and screened sections (0.020 inch slot size). The lower ends of the casings were capped with either a threaded end cap or a riveted slip cap. Both wells were built with screened casing sections extending from the bottom of the well to seven feet below the surface.

Blank sections were used to case from seven feet to the surface.

The annular space in the wells was backfilled with #3 sand to six feet depth. A one foot bentonite seal was placed on top of the sand and charged with water to induce swelling. The remaining five feet of annular space was sealed with a cement grout. Locking vaults were cemented in place over the top of the casings. A waterproof expansion plug was inserted at the top of the well.

The five soil borings were each advanced using a five inch hollow stem to auger a depth of nine feet. Soil samples were collected at four feet and nine feet. These samples were preserved following the protocol described above in the discussion of the monitoring well installations. Auger cuttings were placed between layers of polyethylene cover, and the borings were backfilled with cement grout. Boring logs for B9 through B13 were kept in the field. Copies of boring logs for the monitoring wells for soil borings may be fond in Appendix 1.

A sample was taken from the hole dug around the sump on the west side of the warehouse building (see Plate 2). The sample was preserved according to the protocol described above.

MW-1, MW-3, MW-5, and MW-6 are monitoring wells on the site which were installed prior to this investigation. These four wells and MW-7 and MW-8 were sampled by SCS Engineers. Preliminary bailing of MW-8 detected free product on the well; therefore, this well was not purged prior to sampling. MW-7 was purged of approximately three well casing volumes - 15 gallons - on January 8, 1990 using a submersible pump.

MW-1 was purged by pumping out 35 gallons of water using the submersible pump. MW-3, MW-5, and MW-6 were purged using a Triloc hand pump by pumping about 12 gallons from each well. All water purged from the wells was stored on-site in labeled 55-gallon drums. The pumps and associated piping were steam cleaned prior to being put down the well.

Water samples were collected using clean plastic bailers. The water sample from each well was poured into two 40 milliliter VOA vials and two one liter amber jar. One of the amber jars for each well was prepared with one milliliter of hydrochloric acid, a preservative. The water samples were sealed, labeled, and placed in a cooler with blue ice for transport to SCS Laboratory in Long Beach.

Chemical Methods

The soil samples were analyzed using the following EPA Methods: CAM metals, 8080, 8015 modified, 503D, 8240, and 8270. The results of these analyses are shown in Tables

1-5. The water samples from the six monitoring wells were analyzed by EPA Methods 624, 625, 8015 modified, and 418. The results of these analyses are shown in Tables 6. The laboratory reports and Chain-of-Custody documents are in Appendix 2.

Subsurface Conditions

The subsurface conditions of the site are unique in some ways. About the first foot of soil encountered is a gravel-silt mixture which comprises the grading surface for the asphalt parking lot. The material beneath the site in very inhomogeneous and appears to be construction debris mixed with soil. Brick and concrete fragments, partially decomposed wood, nails, steel washers, aluminum strips, and glass are some of the items found in the soil samples taken during the drilling. This construction debris is found to 10.5 feet in B9, B10, B11, and B12. In B12 and B13 the construction debris extends down to 10 feet depth. At 10 feet a well sorted coarse sand was encountered. In MW-7 bay mud marked the lower extent of the debris at 20.5 foot depth. In MW-8 a silty-clay at 20 feet depth demarcates the lower extent of the debris.

Contamination Distribution

Strong indications of chemical contamination were noted during the drilling operation. Chemical odor in the soil was noted in MW-7, MW-8, B9, B10, and B11. Soil saturated with a black oily substance was observed in samples from MW-7, B9, B10, and B11. Chemical analysis of the soil samples revealed that oil and grease contamination is present in the soil beneath the site. Low amounts of PCBs, near detection limits, were found in borings 7, 11, 13 and in the sample from the sump area. Diesel was found in borings 7,9,and 10. Barium, beryllium, chromium, copper, nickel, vanadium and zinc were found in all the soil samples analyzed.

About 8 ppm (parts per million) MIBK were found in the soil sample from MW8, the well installed near the former MIBK underground storage tank. Low amounts of the BTEX group (benzene, toluene, ethylbenzene, and xylene) were found in the soil samples from borings 7,9,10,and 11. Borings 7,8,9,11,12, and 13 each contained one or more of the following semi-volatile organic chemicals: chrysene, fluoranthrene, 2-methylnaphthalene, naphthalene, phenanthrene, pyrene, benzo (a) anthracene, and benzo (a) pyrene. These are all primarily coal tar derivatives.

The distribution of contaminants in the water is much more confined than the vadose zone contamination distribution. Benzene at 12 ppb (parts per billion) was found in the water from MW5. MW8 contained 103 ppm (parts per million) of total petroleum hydrocarbons. MW8 also contained high values of MIBK in the water. Analysis of water from MW7 tentatively identified 41 ppm of hydrocarbon fatty acids. Low values of TPH,

near the detection limit, were found in the other monitoring wells.

Tables 1-6 are presentations of the results from the chemical analyses done on the soil and water samples. Laboratory reports are included in Appendix 2. Due to a mislabeling of the samples in the field, soil samples labeled as originating from MW7 are actually from MW8, and soil samples labeled as originating from MW8 are from MW7. This error is corrected in the tables.

VI. CONCLUSIONS

The off-site records search and assessment indicates there is a possibility that the subject site is located in an area exposing it to contamination from off-site sources.

This investigation has also found there to be a strong possibility that the subject site is located over an abandoned landfill. Off-site records' search indicated such, and this indication was later confirmed by construction debris found in soil samples taken from beneath the site during the soil borings.

MW7 installed at the property boundry line had contamination of fatty acids (oil and grease) in the groundwater. This contamination appears to be migrating from [redacted] gradient. The concentration of this contamination requires a remediation effort to remove this material from the groundwater. The total petroleum hydrocarbon (TPH) concentrations need to be reduced.

MW8 was installed about 5-10 feet in a down gradient direction from the excavation pit created by the removal of three USTs. MIBK was reportedly stored in one of the tanks. Fairly substantial amounts of MIBK were found in the water samples taken from MW8. No MIBK was discovered in any of the other monitoring wells located on-site. Therefore, the MIBK has apparently not migrated far.

In conclusion, SCS Engineers believes that the MIBK contamination near the former UST location is the primary cause for concern on the subject site. The other contaminants discovered beneath the site are almost all confined to the soil - the vadose zone. The source of these contaminants, which are primarily heavy oil and grease and/or coal tar derivatives is unknown; however, as such substances are viscous and do not readily move through the subsurface environment, then they are quite likely derived from the landfill itself. Near the tank pit the MIBK in the soil has probably acted as a solvent, dissolved some of these heavy hydrocarbons, and transported them to groundwater. Removal of the MIBK, which is probably acting as a contaminant transporter, will remove the primary source of groundwater contamination beneath the subject site.

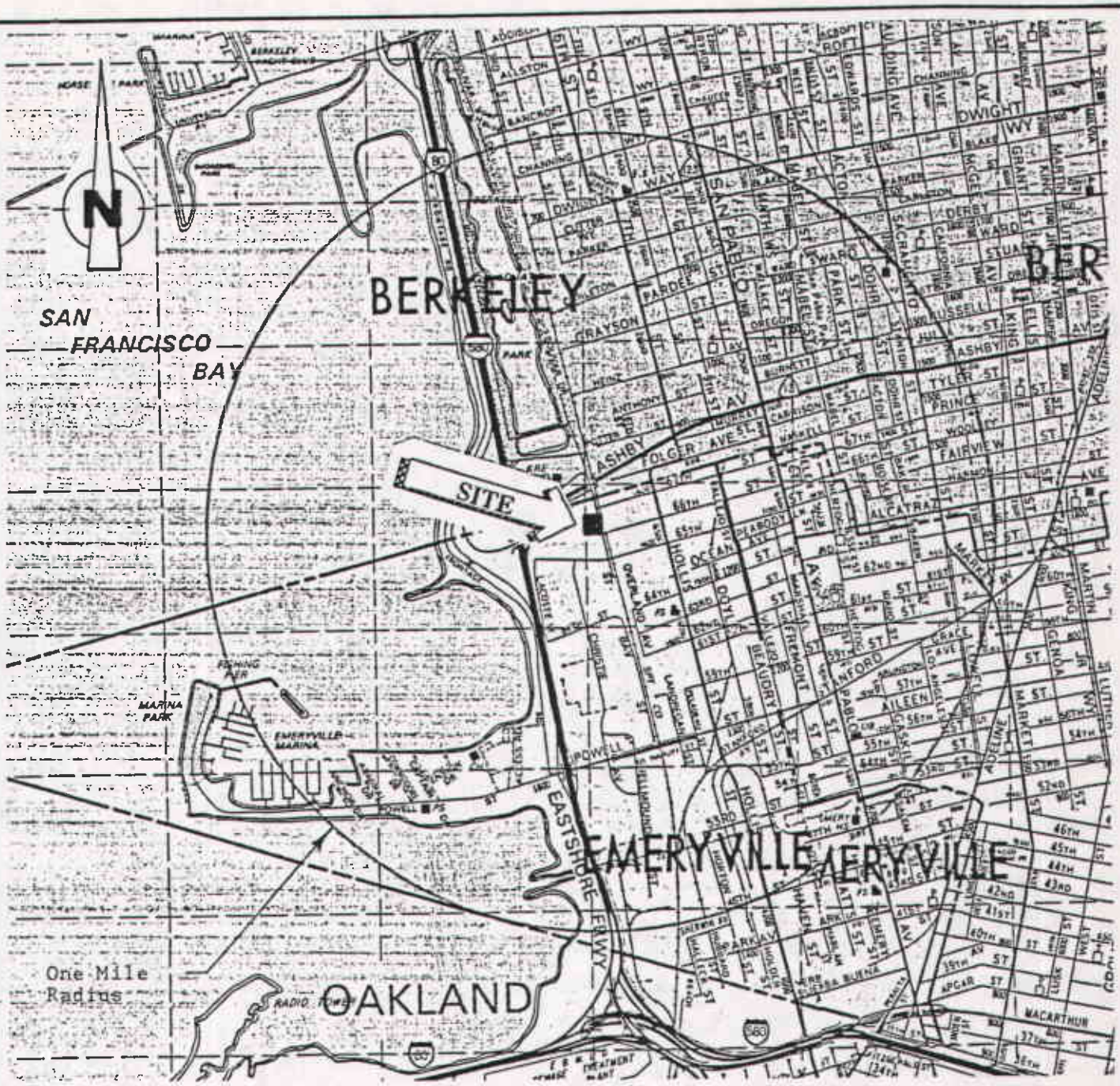
VII. RECOMMENDATIONS

SCS Engineers recommends that action be taken to remove and treat the MIBK in the soil and groundwater beneath the subject site. The vadose zone can be treated through the installation of a vapor extraction system consisting of six manifolded vadose wells extracting vapor from the area of the removed USTs. This vapor will be treated using carbon filters. An extraction system should be installed at MW8, and the water from this well treated by carbon adsorption filtration and the cleaned water discharged in an appropriate manner.

A groundwater extraction and treatment system also needs installed in the southwestern portion of the property. Either MW7 or MW5 may be used for the remediation effort. The choice of which well to use will be dependent on the results of a groundwater gradient study and further sampling of the groundwater from MW5 and MW7.

The site is covered by building or asphalt parking except for a small area 10'x35' of flower and grass berm. The extraction systems will remove the material Methyl Isobutyl Ketone (MIBK), benzene, or other solvents. With the removal of the solvents, the tar/asphalt material from the landfill will become immobile and not migrate into the groundwater. No further contamination from the soil on site will effect groundwater.

SCS Engineers will be pleased to offer a proposal for the design and implementation of a system effecting the remediation of the subject parcel.



Map Source: The Thomas Guide, 1989

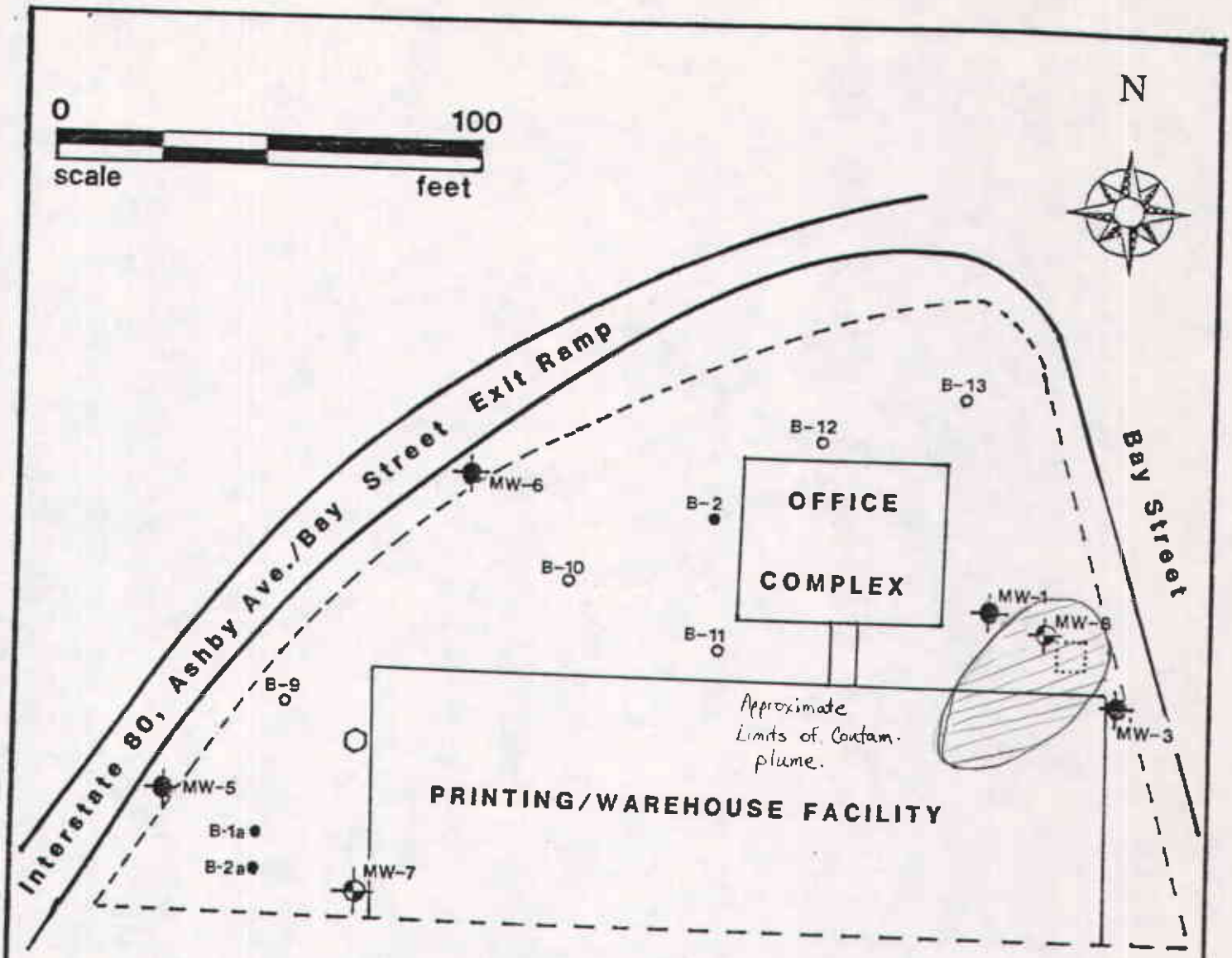
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.

6761-D SIERRA COURT
DUBLIN, CA 94568

Vicinity Map
Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

Project No. 0389058.00 Date 12/26/89

Plate 1



LEGEND

- Monitor Wells, installed January 1990
- Monitor Wells installed previous to study
- Soil Boring, January 1990
- Soil Boring sampled previous to study
- Sump
- Property Line
- Excavated Tank Site

SCS ENGINEERS
STEARNS CONRAD AND SCHMIDT
CONSULTING ENGINEERS INC
6701 D SIERRA COURT
DUBLIN CA 94568

Site Plan - Mike Roberts Color Production
6707 Bay Street
Emeryville, California

Project No. 0389058

Date 1-17-90

Page 2

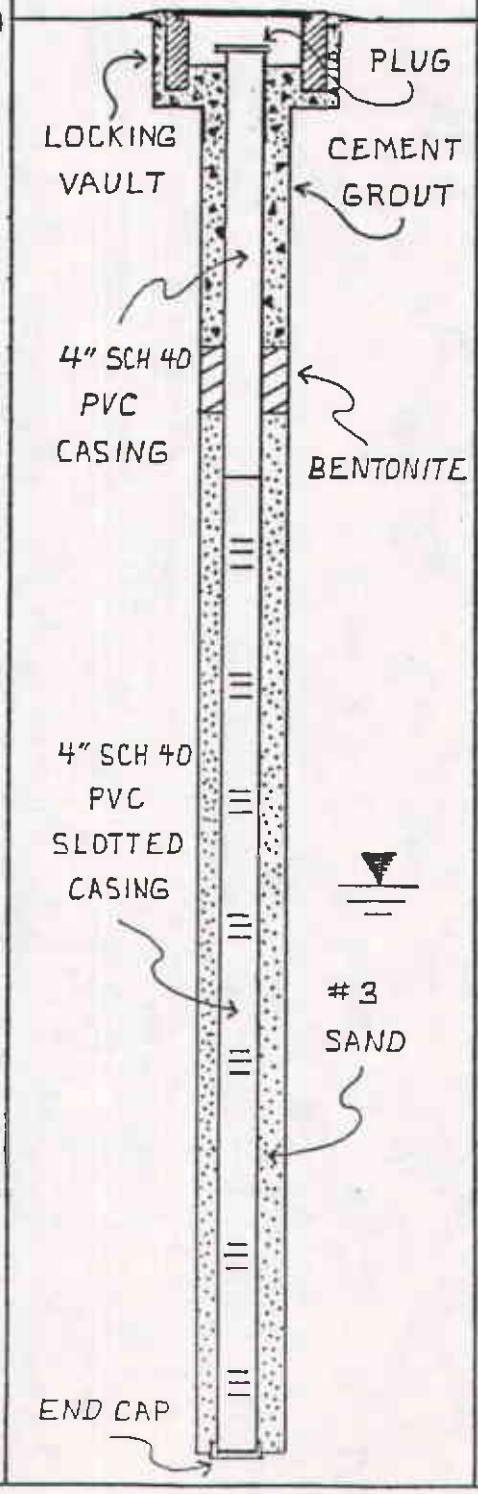
APPENDIX 1

Boring Logs and Driller's Reports

BORING LOG

Project MRCP
Location Emeryville
Job # 0389058.00
Geologist/Engineer Don McClenagan
Drill Agency Bay Area Exploration

Hole/Well # MW-7
Diameter of Drill Hole 10.5 inches
Total Depth of Hole 22 feet
Date Started 1-3-90
Date Completed 1-4-90



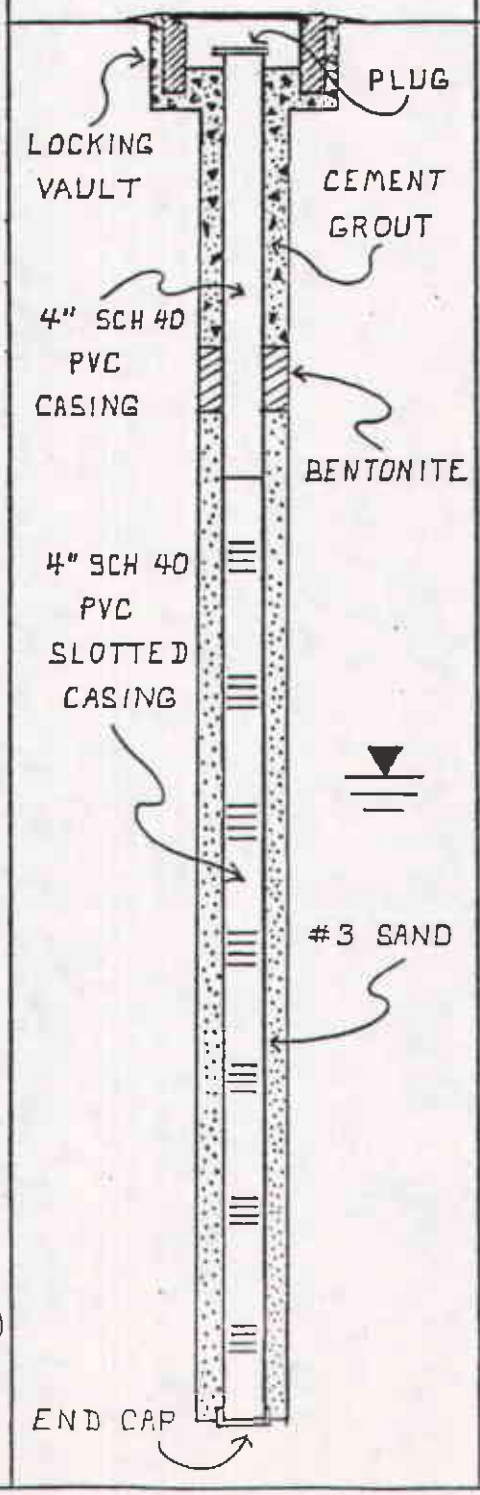
DEPTH IN FEET	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0				
			GM	0-.3' asphalt .3-1' medium brown sandy gravel, damp, loose 4.5-5' yellow silty gravel, damp, some chemical odor, loose
4	6 8 7	S-1		5-6' black silty clay, 5% gravel, stiff, damp, some odor
6			CL	
8				
10	3 13 21	S-2		9.5-11' yellow silt, 15% gravel, damp, brick and glass fragments, loose, saturated with oily substance at 10'
12			ML	14.5-16 20% gravel
14				
16	3 6 6	S-3		
18			SW	at 20.5' - dark brown silty clay, saturated, shell fragments no chemical odor
20				groundwater first encountered: 14.5' Static level: 13.25'
22	11 8 6	S-4	CL	

SCS ENGINEERS

BORING LOG

Project MRCP
Location Emeryville
Job # 0389058.00
Geologist/Engineer Don McClenagan
Drill Agency Bay Area Exploration

Hole/Well # MW-8
Diameter of Drill Hole 10.5 inches
Total Depth of Hole 21.5 feet
Date Started 1-3-90
Date Completed 1-4-90



DEPTH IN FEET	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0				
0–2			ML	0-1' dark brown gravelly silt, 20% gravel, damp, loose
4				
6	5, 8, 11	7-1		5-6.5' dark brown sandy clay, 1% gravel, 10% organic mat., damp, stiff, no chem. odor
8				
10	9, 10, 11	7-2	CL	10-11.5' gray, hard concrete or mortar, slightly damp, strong chemical odor
12				
14				
16	6, 5, 4	7-3		15-16.5' dark grey clay, saturated, wood and plant fiber, strong chemical odor
18			CH	20-21.5' dark grey-green to yellow, silty clay, saturated, strong odor
20				groundwater first encountered at 15 feet
22		7-4		

SCS ENGINEERS

BORING LOG

Project MRCP
Location Emeryville
Job # 0389058.00
Geologist/Engineer Don McClenagan
Drill Agency Bay Area Exploration

Hole/Well # B-9
Diameter of Drill Hole 5 inches
Total Depth of Hole 9 feet
Date Started 1-4-90
Date Completed 1-5-90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0					
2	CEMENT GROUT			ML	0-3' asphalt Yellow brown gravelly silt, damp, 15% gravel, loose
4		11 19 21	9-1		4-5.5 Medium brown silty gravel, brick, concrete frags, damp, loose, no odor
6					
8				GM	
10		10 11 21	9-2		9-10.5 light brown gravel (brick & concrete frags, glass, nails, aluminum shavings), saturated with oily substance at 10', loose, strong odor

SCS ENGINEERS

BORING LOG

Project MRCP
Location Emeryville
Job # 0389058.00
Geologist/Engineer Don McClenagan
Drill Agency Bay Area Exploration

Hole/Well # B-13
Diameter of Drill Hole 5 inches
Total Depth of Hole 9 feet
Date Started 1-4-90
Date Completed 1-5-90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0					
2	CEMENT GROUT				0-.3' asphalt .3-2' medium brown silt, 5% gravel, slightly damp, loose, no odor
4		9 14 18		ML	
6			B-1		4-5.5' 30% construction debris and gravel, loose, no odor
8					
10		6 7 12	B-2	SW	at 10' green, well graded sand, coarse, loose, damp, no odor

SCS ENGINEERS

BORING LOG

Project MRCP
Location Emeryville
Job # 0389058.00
Geologist/Engineer Don McClenagan
Drill Agency Bay Area Exploration

Hole/Well # B-10
Diameter of Drill Hole 5 inches
Total Depth of Hole 9 feet
Date Started 1-4-90
Date Completed 1-5-90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0					
2	CEMENT GROUT			GM	0-3 asphalt medium brown, silty gravel, damp, loose, slight odor
4		4 7 8	10-1		4-5.5 brown silt, wood fragments, brick and concrete frags, strong odor, staurated with oily substance
6				ML	
8					
10		4 4 5	10-2	GM	9-10.5 dark brown, gravel cgl, construction debris, saturated with oily substance

SCS ENGINEERS

BORING LOG

Project MRCP
Location Emeryville
Job # 0389058.00
Geologist/Engineer Don McClenagan
Drill Agency Bay Area Exploration

Hole/Well # B-11
Diameter of Drill Hole 5 inches
Total Depth of Hole 9 feet
Date Started 1-4-90
Date Completed 1-5-90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0					
2	CEMENT GROUT			ML	0-.3' asphalt .3-1 yellow brown silt, 20% gravel, slightly damp, loose
4					4-6.5 medium brown gravelly caly, 15% gravel, damp, medium stiff, construction debris
6		2 6 8	11-1	CL	
8					
10		6 4 8	11-2	ML	9-10.5' brown gravelly silt, 50% gravel, constuction debris, loose, chemical odor, saturated with oily substance

SCS ENGINEERS

BORING LOG

Project: MRCP
Location: Emeryville
Job #: 0389058.00
Geologist/Engineer: Don McClenagan
Drill Agency: Bay Area Exploration

Hole/Well #: B-12
Diameter of Drill Hole: 5 inches
Total Depth of Hole: 9 feet
Date Started: 1-4-90
Date Completed: 1-5-90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
0					
2	CEMENT GROUT				0-.3' asphalt .3-2' medium brown clayey silt, 5% gravel, loose, slightly damp, no odor
4		5 9 10	12-1	ML	4-5.5' dark brown clayey silt, 20% construction debris & gravel, loose, damp
6					
8					
10		5 7 13	12-2	SW	10-10.5 Green well graded sand, coarse, damp, loose

SCS ENGINEERS

TABLE 1

Results of Soil Sample Analyses for Gasoline, Diesel, Oil and Grease

	EPA 8015 gasoline	EPA 8015 diesel	503D oil and grease
		---mg/kg (ppm)---	
MW7-1	ND	ND	9000
MW7-2	ND	788	8800
MW8-1	ND	ND	2000
MW8-2	ND	[illegible]	20000
B9-1	ND	ND	23000
B9-2	ND	[illegible]	15000
B10-1	ND	[illegible]	9500
B10-2	ND	ND	6300
B11-1	ND	ND	45000
B11-2	ND	ND	30400
B12-1	ND	ND	38800
B13-1	ND	ND	9400
B13-2	ND	ND	3000
Sump	ND	ND	10500

ND=not detected

Detection Limit for EPA method 8015: 10 ppm

TABLE 2.

Results of soil sample analyses for EPA Method 8080-Organochlorine Pesticides and PCBs

Sample ID	Compound	Results mg/kg (ppm)	Detection Limit
MW1	- - - -	ND	- - -
MW7-2	- - - -	ND	- - -
MW8-1	- - - -	ND	- - -
MW8-2	PCB-1260	2.3	1.0
B9-1	- - - -	ND	- - -
B9-2	- - - -	ND	- - -
B10-1	- - - -	ND	- - -
B10-2	- - - -	ND	- - -
B11-1	PCB-1260	2.2	1.0
B11-2	- - - -	ND	- - -
B12-1	- - - -	ND	- - -
B12-2	- - - -	ND	- - -
B13-1	PCB-1260	3.1	1.0
B13-2	- - - -	ND	- - -
Sump	PCB-1260	4.2	1.0

ND=not detected

TABLE 3.

Results of Soil Sample analyses for CAM Metals

	antimony (10)	arsenic (16)	barium (0.1)	beryllium (0.02)	cadmium (0.7)	chromium (0.5)	cobalt (2)	copper (0.2)
	---mg/kg (ppm)---							
MW7-1	ND	ND	140	0.48	ND	32	8.6	27
MW7-2	ND	ND	24	0.13	ND	21	ND	3.6
MW8-1	ND	ND	42	0.16	ND	27	2.8	18
MW8-2	ND	ND	85	0.15	ND	9.6	ND	41
B9-1	ND	ND	140	0.41	ND	33	7.4	55
B9-2	ND	ND	610	0.31	44	180	15	2300
B10-1	ND	ND	33	0.05	ND	23	ND	39
B10-2	ND	21	590	0.33	1.3	34	6.9	140
B11-1	ND	ND	240	0.36	1.0	22	5.4	44
B11-2	ND	ND	160	0.31	ND	21	3.6	>4500
B12-1	ND	ND	89	0.23	ND	36	3.4	170
B12-2	ND	38	540	0.26	7.7	190	28	2200
B13-1	ND	ND	160	0.36	ND	62	6.5	120
B13-2	ND	ND	37	0.15	ND	29	2.9	4.9
Sump	ND	ND	180	0.48	ND	95	10	49

	lead (12)	mercury (0.009)	moly- (1.0)	nickel (1.0)	selenium (0.2)	silver (0.4)	thallium (10)	vana- (0.3)	zinc (0.4)
				--mg/kg (ppm)---					
M7-1	ND	ND		ND	28	ND	ND	ND	3679
MW7-2	ND	0.088		ND	16	ND	ND	ND	12310
MW8-1	ND	ND		ND	18	ND	ND	ND	1575
MW8-2	24	0.36		ND	6.8	ND	ND	ND	8.5120
B9-1	41	0.45		ND	32	ND	ND	ND	31120
B9-2	980	0.66		27	350	ND	ND	ND	26 6200
B10-1	42	0.10		ND	10	ND	ND	ND	595
B10-2	1500	0.62		ND	24	ND	ND	ND	28410
B11-1	72	0.092		ND	25	ND	ND	ND	21940
B11-2	55	0.12		ND	24	ND	ND	ND	17160
B12-1	120	ND		ND	29	ND	ND	ND	21150
B12-2	3000	ND		20	110	ND	ND	ND	233600
B13-1	520	ND		ND	42	ND	ND	ND	27300
B13-2	12	ND		ND	18	ND	ND	ND	15210
Sump	62	0.022		ND	135	ND	ND	ND	39150

ND=not detected
d.l.=detection limit (ppm)

TABLE 4.

Results of Soil Sample Analyses for EPA Method 8240-Volatile Organics

Sample ID	Compound	Results mg/kg (ppm)	Detection Limit
MW7-1	- - - -	ND	- - -
MW7-2	ethylbenzene	0.25	- - -
MW8-1	- - - -	ND	- - -
(MW8-2)	(methyl isobntyl ketone) M18	[redacted]	0.30
	toluene	0.061	0.010
	m- and p-xylene	0.56	0.010
	0-oylene	0.46	0.010
B9-1	toluene	0.012	0.010
B9-2	benzene	0.054	0.010
	ethylbenzene	0.140	0.010
	toluene	0.026	0.010
	m- and p-xylene	0.250	0.010
	o-xylene	0.130	0.010
B10-1	m- and p-xylene	0.043	0.010
B10-2	- - - -	ND	- - -
B11-1	toluene	0.015	0.010
B11-2	- - - -	ND	- - -
B12-1	- - - -	ND	- - -
B12-2	- - - -	ND	- - -
B13-1	- - - -	ND	- - -
B13-2	- - - -	ND	- - -
Sump	- - - -	ND	- - -

ND=not detected

TABLE 5.

Results of Soil Sample Analyses for EPA Method 8270 Semi-Volatile Organics

Sample ID	Compound	Results mg/kg (ppm)	Detection Limit
MW7-1	- - - -	ND	- - -
MW7-2	chrysene	0.39	0.03
	fluoranthene	0.32	0.30
	2-methylnaphthalene	1.5	0.30
	naphthalene	7.5	0.30
	phenanthrene	0.53	0.30
	pyrene	0.36	0.30
MW7-1	- - - -	ND	- - -
MW8-2	pyrene	0.41	0.30
B9-1	chrysene	0.39	0.30
B9-2	chrysene	0.63	0.30
	fluoranthene	0.34	0.30
	2-methylnaphthalene	1.10	0.30
	naphthalene	6.80	0.30
	phenanthrene	0.59	0.30
	pyrene	0.55	0.30
B10-1	- - - -	ND	- - -
B10-2	- - - -	ND	- - -
B11-1	pyrene	0.32	0.30
B11-2	benzo (a) anthracene	0.58	0.30
	chrysene	0.82	0.30
	fluoranthene	1.10	0.30
B11-2	phenanthrene	0.56	0.30
	pyrene	1.80	0.30
B12-1	pyrene	0.37	0.30
B12-2	- - - -	ND	- - -
B13-1	benzo (a) pyrene	0.47	0.30
	chrysene	0.39	0.30
	pyrene	0.32	0.30
B13-2	- - - -	ND	- - -
Sump	- - - -	ND	- - -

ND not detected

TABLE 6.

Results of Water Sample Analyses

Sample ID	EPA 8015 modified ---mg/l---	EPA 418.1 (TPH)	EPA 624 ---mg/l---	EPA 625
MW1-1W	ND	0.5*	ND	ND
MW3-1W	ND	0.6*	ND	ND
MW5-1W	ND	0.7*	benzene 0.012**	ND
MW6-1W	ND	1.2*	ND	ND
MW7-1W	ND	0.8*	ND	ND
MW8-1W	ND	103.0*	being reanalyzed ☆	ND

ND=not detected
* detection limit 0.5 ppm
** detection limit 0.005 ppm

☆ **MW8-1W EPA 624 Reanalysis Results**

(results in parts per million)

benzene	2.100

Tentatively Identified Compounds - Approximate Concentrations

MIBK	>160.000
Ethyl Acetate	>20.000
Butyl Acetate	5.800
Propyl Acetate	>32.000
Propyl Ester of Propanoic Acid	2.500
Ethyl Butyl Ether	>12.000
C6 Alcohol	34.000

APPENDIX 2

Laboratory Reports and
Chain of Custody Documentation

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

MEMO

To: Don McClenagan

From: Curtis B. Jenkins

January 23, 1990

Job No.: 0389058

LABORATORY REPORT

Samples: Eight (8) soil samples from Mike Roberts Color Production, received 1/6/90, analyzed 1/19/90.

Sample ID	EPA 8015 (gasoline)	EPA 8015 (Diesel)	503D
	mg/kg		
MW7-1	ND	ND	2,000
MW7-2	ND	ND	20,000
MW8-1	ND	ND	9,000
MW8-2	ND	788	8,800
B9-1	ND	ND	23,000
B9-2	ND	5050	15,000
B10-1	ND	380	9,500
B10-2	ND	ND	6,300
Detection Limit	10	10	

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

EPA 8080, Metals, EPA 8240 & EPA 8270 - see attached sheets

David Mikesell
Chemist

Curtis B. Jenkins
Laboratory Director

mkrob2.rep

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1
	2.3	1

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH9-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Addendum Report, CAM Metals

Sample I.D.: MW7-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob2.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	42	0.1
Beryllium	7090	0.16	0.02
Cadmium	7130	ND	0.7
Chromium	7190	27	0.5
Cobalt	7200	2.8	2
Copper	7210	18	0.2
Lead	7420	ND	12
Mercury	7471	ND	0.009
Molydbenum	7480	ND	1
Nickel	7520	18	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	15	0.3
Zinc	7950	75	0.4

ND = Not Detected
D.L. Detection Limit

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob2.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	85	0.1
Beryllium	7090	0.15	0.02
Cadmium	7130	ND	0.7
Chromium	7190	9.6	0.5
Cobalt	7200	ND	2
Copper	7210	41	0.2
Lead	7420	24	12
Mercury	7471	0.36	0.009
Molydbenum	7480	ND	1
Nickel	7520	6.8	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	8.5	0.3
Zinc	7950	120	0.4

ND = Not Detected
D.L. Detection Limit

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob2.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	140	0.1
Beryllium	7090	0.48	0.02
Cadmium	7130	ND	0.7
Chromium	7190	32	0.5
Cobalt	7200	8.6	2
Copper	7210	27	0.2
Lead	7420	ND	12
Mercury	7471	ND	0.009
Molydbenum	7480	ND	1
Nickel	7520	28	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	36	0.3
Zinc	7950	79	0.4

ND = Not Detected
D.L. Detection Limit

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob2.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	24	0.1
Beryllium	7090	0.13	0.02
Cadmium	7130	ND	0.7
Chromium	7190	21	0.5
Cobalt	7200	ND	2
Copper	7210	3.6	0.2
Lead	7420	ND	12
Mercury	7471	0.088	0.009
Molydbenum	7480	ND	1
Nickel	7520	16	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	12	0.3
Zinc	7950	310	0.4

ND = Not Detected
D.L. Detection Limit

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob2.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	140	0.1
Beryllium	7090	0.41	0.02
Cadmium	7130	ND	0.7
Chromium	7190	33	0.5
Cobalt	7200	7.4	2
Copper	7210	55	0.2
Lead	7420	41	12
Mercury	7471	0.45	0.009
Molydbenum	7480	ND	1
Nickel	7520	32	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	31	0.3
Zinc	7950	120	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2560 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Addendum Report, CAM Metals

Sample I.D.: B9-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob2.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	16
Arsenic	7060	ND	16
Barium	7080	610	0.1
Beryllium	7090	0.31	0.02
Cadmium	7130	44	0.7
Chromium	7190	180	0.5
Cobalt	7200	15	2
Copper	7210	2300	0.2
Lead	7420	980	12
Mercury	7471	0.66	0.009
Molydbenum	7480	27	1
Nickel	7520	350	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	26	0.3
Zinc	7950	6200	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob2.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	33	0.1
Beryllium	7090	0.05	0.02
Cadmium	7130	ND	0.7
Chromium	7190	23	0.5
Cobalt	7200	ND	2
Copper	7210	39	0.2
Lead	7420	42	12
Mercury	7471	0.10	0.009
Molydbenum	7480	ND	1
Nickel	7520	10	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	5	0.3
Zinc	7950	95	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Addendum Report, CAM Metals

Sample I.D.: B10-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob2.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	16
Arsenic	7060	21	16
Barium	7080	590	0.1
Beryllium	7090	0.33	0.02
Cadmium	7130	1.3	0.7
Chromium	7190	34	0.5
Cobalt	7200	6.9	2
Copper	7210	140	0.2
Lead	7420	1500	12
Mercury	7471	0.62	0.009
Molydbenum	7480	ND	1
Nickel	7520	24	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	28	0.3
Zinc	7950	410	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg (ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	500
107-02-8	Acrolein	ND	500
107-13-1	Acrylonitrile	ND	500
71-43-2	Benzene	ND	100
75-27-4	Bromodichloromethane	ND	100
75-25-2	Bromoform	ND	100
74-83-9	Bromomethane	ND	300
78-93-3	2-Butanone	ND	500
75-15-0	Carbon Disulfide	ND	100
56-23-5	Carbon Tetrachloride	ND	100
108-90-7	Chlorobenzene	ND	100
124-48-1	Chlorodibromomethane	ND	100
75-00-3	Chloroethane	ND	300
110-75-8	2-Chloroethyl Vinyl Ether	ND	500
67-66-3	Chloroform	ND	100
74-87-3	Chloromethane	ND	300
74-95-3	Dibromomethane	ND	100
110-56-5	1,4-Dichlorobutane	ND	100
75-71-8	Dichlorodifluoromethane	ND	100
75-34-3	1,1-Dichloroethane	ND	100
107-06-2	1,2-Dichloroethane	ND	100
75-35-4	1,1-Dichloroethene	ND	100
156-60-5	trans-1,2-Dichloroethene	ND	100
78-87-5	1,2-Dichloropropane	ND	100
10061-01-5	cis-1,3-Dichloropropene	ND	100
10061-02-6	trans-1,3-Dichloropropene	ND	100
64-17-5	Ethanol	ND	100
100-41-4	Ethylbenzene	ND	100
97-63-2	Ethyl Methylacrylate	ND	100
591-78-6	2-Hexanone	ND	300
74-88-4	Iodomethane	ND	100
75-09-2	Methylene Chloride	ND	500
108-10-1	4-Methyl-2-Pentanone	8300	300

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	100
79-34-5	1,1,2,2-Tetrachloroethane	ND	100
127-18-4	Tetrachloroethene	ND	100
108-88-3	Toluene	ND	100
71-55-6	1,1,1-Trichloroethane	ND	100
79-00-5	1,1,2-Trichloroethane	ND	100
79-01-6	Trichloroethene	ND	100
75-69-4	Trichlorofluoromethane	ND	100
96-18-4	1,2,3-Trichloropropane	ND	100
108-05-4	Vinyl Acetate	ND	300
75-01-4	Vinyl Chloride	ND	300
1330-20-7	m- and p-Xylenes	ND	100
95-47-6	o-Xylene	ND	100
541-73-1	1,3-Dichlorobenzene	ND	100
106-46-7	1,4-Dichlorobenzene	ND	100
95-50-1	1,2-Dichlorobenzene	ND	100

D.L. = Detection Limit
ND = Not Detected

TENTANTIVELY IDENTIFIED COMPOUNDS

COMPOUND NAME	APPROXIMATE CONCENTRATION
4-Methyl-2-Pentanol	1600 ug/kg

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	250	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	61	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	560	10
95-47-6	o-Xylene	460	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2660 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH9-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	12	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	54	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	140	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	26	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	250	10
95-47-6	o-Xylene	130	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	43	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	100
107-02-8	Acrolein	ND	100
107-13-1	Acrylonitrile	ND	100
71-43-2	Benzene	ND	20
75-27-4	Bromodichloromethane	ND	20
75-25-2	Bromoform	ND	20
74-83-9	Bromomethane	ND	60
78-93-3	2-Butanone	ND	100
75-15-0	Carbon Disulfide	ND	20
56-23-5	Carbon Tetrachloride	ND	20
108-90-7	Chlorobenzene	ND	20
124-48-1	Chlorodibromomethane	ND	20
75-00-3	Chloroethane	ND	60
110-75-8	2-Chloroethyl Vinyl Ether	ND	100
67-66-3	Chloroform	ND	20
74-87-3	Chloromethane	ND	60
74-95-3	Dibromomethane	ND	20
110-56-5	1,4-Dichlorobutane	ND	20
75-71-8	Dichlorodifluoromethane	ND	20
75-34-3	1,1-Dichloroethane	ND	20
107-06-2	1,2-Dichloroethane	ND	20
75-35-4	1,1-Dichloroethene	ND	20
156-60-5	trans-1,2-Dichloroethene	ND	20
78-87-5	1,2-Dichloropropane	ND	20
10061-01-5	cis-1,3-Dichloropropene	ND	20
10061-02-6	trans-1,3-Dichloropropene	ND	20
64-17-5	Ethanol	ND	20
100-41-4	Ethylbenzene	ND	20
97-63-2	Ethyl Methylacrylate	ND	20
591-78-6	2-Hexanone	ND	60
74-88-4	Iodomethane	ND	20
75-09-2	Methylene Chloride	ND	100
108-10-1	4-Methyl-2-Pentanone	ND	60

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
atrix: Soil
Project #: 0389058
File #: mkrob2.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	20
79-34-5	1,1,2,2-Tetrachloroethane	ND	20
127-18-4	Tetrachloroethene	ND	20
108-88-3	Toluene	ND	20
71-55-6	1,1,1-Trichloroethane	ND	20
79-00-5	1,1,2-Trichloroethane	ND	20
79-01-6	Trichloroethene	ND	20
75-69-4	Trichlorofluoromethane	ND	20
96-18-4	1,2,3-Trichloropropane	ND	20
108-05-4	Vinyl Acetate	ND	60
75-01-4	Vinyl Chloride	ND	60
1330-20-7	m- and p-Xylenes	ND	20
95-47-6	o-Xylene	ND	20
541-73-1	1,3-Dichlorobenzene	ND	20
106-46-7	1,4-Dichlorobenzene	ND	20
95-50-1	1,2-Dichlorobenzene	ND	20

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg (ppb)	D.L. ----
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg (ppb)----	D.L.
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	ND	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2660 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	410	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

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LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	ND	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

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2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg	D.L. (ppb)----
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	390	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

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LONG BEACH, CALIFORNIA 90806
(213) 595-9324
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Sample I.D.: MW8-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result	D.L.
		----ug/kg (ppb)----	
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	320	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	1500	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	7500	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	530	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	360	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

Due to mislabeling of soil samples, all soil samples labeled MW-7 are from MW-8, and all soil samples labeled MW-8 are from MW-7.

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	390	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	ND	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg (ppb)	D.L. ----
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	630	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B9-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	340	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	1100	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	6800	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	590	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	550	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	300
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	2000
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	300
86-30-6	N-Nitrosodiphenylamine	ND	2000
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	300
85-01-8	Phenanthrene	ND	2000
108-95-2	Phenol	ND	300
129-00-0	Pyrene	ND	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	300
88-06-2	2,4,6-Trichlorophenol	ND	2000
		ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: B10-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob2.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
67-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	ND	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

MEMO

To: Don McClenagan

From: Curtis B. Jenkins

January 23, 1990

Job No.: 0389058

LABORATORY REPORT

Samples: Seven (7) soil samples from Mike Roberts Color Production, received 1/6/90, analyzed 1/19/90.

Sample ID	EPA 8015 (gasoline)	EPA 8015 (Diesel)	503D
	mg/kg		
BH11-1	ND	ND	45,000
BH11-2	ND	ND	30,400
BH12-1	ND	ND	12,000
BH12-2	ND	ND	38,800
BH13-1	ND	ND	9,400
BH13-2	ND	ND	3,000
Sump	ND	ND	10,500

EPA 8080, Metals, EPA 8240 & EPA 8270 - see attached sheets

David Mikesell
Chemist

Curtis B. Jenkins
Laboratory Director

mkrobl.rep

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	2.2	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90810
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	3.1	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	ND	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: Surp
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound	Result ----mg/kg (ppm)----	D.L.
p,p'-DDE	ND	0.01
Endosulfan I	ND	0.02
Aldrin	ND	0.01
Endosulfan II	ND	0.02
p,p'-DDT	ND	0.04
Endrin Aldehyde	ND	0.01
Heptachlor Epoxide	ND	0.01
Endrin	ND	0.01
Dieldrin	ND	0.01
p,p'-DDD	ND	0.01
Beta-BHC	ND	0.01
Delta-BHC	ND	0.01
Endosulfan Sulfate	ND	0.02
Heptachlor	ND	0.01
Alpha-BHC	ND	0.01
Lindane	ND	0.01
Toxaphene	ND	2
Chlordane	ND	2
Methoxychlor	ND	1
PCB-1016	ND	1
PCB-1221	ND	1
PCB-1232	ND	1
PCB-1242	ND	1
PCB-1248	ND	1
PCB-1254	ND	1
PCB-1260	4.2	1

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob1.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	240	0.1
Beryllium	7090	0.36	0.02
Cadmium	7130	1.0	0.7
Chromium	7190	22	0.5
Cobalt	7200	5.4	0.4
Copper	7210	44	0.2
Lead	7420	72	3
Mercury	7471	0.092	0.009
Molydbenum	7480	ND	1
Nickel	7520	25	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	21	0.3
Zinc	7950	940	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob1.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	160	0.1
Beryllium	7090	0.31	0.02
Cadmium	7130	ND	0.7
Chromium	7190	21	0.5
Cobalt	7200	3.6	0.4
Copper	7210	>4500	0.2
Lead	7420	55	3
Mercury	7471	0.12	0.009
Molydbenum	7480	ND	1
Nickel	7520	24	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	17	0.3
Zinc	7950	160	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob1.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	89	0.1
Beryllium	7090	0.23	0.02
Cadmium	7130	ND	0.7
Chromium	7190	36	0.5
Cobalt	7200	3.4	0.4
Copper	7210	170	0.2
Lead	7420	120	3
Mercury	7471	ND	0.009
Molydbenum	7480	ND	1
Nickel	7520	29	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	21	0.3
Zinc	7950	150	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob1.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	28
Arsenic	7060	38	3
Barium	7080	540	0.1
Beryllium	7090	0.26	0.02
Cadmium	7130	7.7	0.7
Chromium	7190	190	0.5
Cobalt	7200	28	0.4
Copper	7210	2200	0.2
Lead	7420	3000	3
Mercury	7471	ND	0.009
Molydbenum	7480	20	1
Nickel	7520	110	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	23	0.3
Zinc	7950	3600	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2660 WALNUT AVENUE
LONG BEACH, CALIFORNIA 9080
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-1
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob1.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	160	0.1
Beryllium	7090	0.36	0.02
Cadmium	7130	ND	0.7
Chromium	7190	62	0.5
Cobalt	7200	6.5	0.4
Copper	7210	120	0.2
Lead	7420	520	3
Mercury	7471	ND	0.009
Molydbenum	7480	ND	1
Nickel	7520	42	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	27	0.3
Zinc	7950	300	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-2
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob1.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	37	0.1
Beryllium	7090	0.15	0.02
Cadmium	7130	ND	0.7
Chromium	7190	29	0.5
Cobalt	7200	2.9	0.4
Copper	7210	4.9	0.2
Lead	7420	12	3
Mercury	7471	ND	0.009
Molydbenum	7480	ND	1
Nickel	7520	18	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	15	0.3
Zinc	7950	210	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Addendum Report, CAM Metals

Sample I.D.: Sump
Date Received: 1/6/90
Date Analyzed: 1/19/90
Matrix: Soil
Project: 0389058
File #: mkrob1.rep

Compound	EPA Number	Result	D.L
		-----mg/kg(ppm)-----	
Antimony	7040	ND	10
Arsenic	7060	ND	16
Barium	7080	180	0.1
Beryllium	7090	0.48	0.02
Cadmium	7130	ND	0.7
Chromium	7190	95	0.5
Cobalt	7200	10	0.4
Copper	7210	49	0.2
Lead	7420	62	3
Mercury	7471	0.022	0.009
Molydbenum	7480	ND	1
Nickel	7520	135	1
Selenium	7740	ND	0.2
Silver	7760	ND	0.4
Thallium	7840	ND	10
Vanadium	7911	39	0.3
Zinc	7950	150	0.4

ND = Not Detected
D.L. Detection Limit

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-1
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-1
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	15	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-2
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	10
78-93-3	2-Butanone	ND	30
75-15-0	Carbon Disulfide	ND	50
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl Vinyl Ether	ND	30
67-66-3	Chloroform	ND	50
74-87-3	Chloromethane	ND	10
74-95-3	Dibromomethane	ND	30
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-2
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90810
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-1
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-1
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-2
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-2
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-1
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg (ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-1
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-2
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-2
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: Sump
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
67-64-1	Acetone	ND	50
107-02-8	Acrolein	ND	50
107-13-1	Acrylonitrile	ND	50
71-43-2	Benzene	ND	10
75-27-4	Bromodichloromethane	ND	10
75-25-2	Bromoform	ND	10
74-83-9	Bromomethane	ND	30
78-93-3	2-Butanone	ND	50
75-15-0	Carbon Disulfide	ND	10
56-23-5	Carbon Tetrachloride	ND	10
108-90-7	Chlorobenzene	ND	10
124-48-1	Chlorodibromomethane	ND	10
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	10
74-87-3	Chloromethane	ND	30
74-95-3	Dibromomethane	ND	10
110-56-5	1,4-Dichlorobutane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
75-34-3	1,1-Dichloroethane	ND	10
107-06-2	1,2-Dichloroethane	ND	10
75-35-4	1,1-Dichloroethene	ND	10
156-60-5	trans-1,2-Dichloroethene	ND	10
78-87-5	1,2-Dichloropropane	ND	10
10061-01-5	cis-1,3-Dichloropropene	ND	10
10061-02-6	trans-1,3-Dichloropropene	ND	10
64-17-5	Ethanol	ND	10
100-41-4	Ethylbenzene	ND	10
97-63-2	Ethyl Methylacrylate	ND	10
591-78-6	2-Hexanone	ND	30
74-88-4	Iodomethane	ND	10
75-09-2	Methylene Chloride	ND	50
108-10-1	4-Methyl-2-Pentanone	ND	30

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: Sump
Date Received: 1/6/90
Date Analyzed: 1/17/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

CAS #	Compound	Result	D.L.
		----ug/kg(ppb)----	
100-42-5	Styrene	ND	10
79-34-5	1,1,2,2-Tetrachloroethane	ND	10
127-18-4	Tetrachloroethene	ND	10
108-88-3	Toluene	ND	10
71-55-6	1,1,1-Trichloroethane	ND	10
79-00-5	1,1,2-Trichloroethane	ND	10
79-01-6	Trichloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
96-18-4	1,2,3-Trichloropropane	ND	10
108-05-4	Vinyl Acetate	ND	30
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	10
95-47-6	o-Xylene	ND	10
541-73-1	1,3-Dichlorobenzene	ND	10
106-46-7	1,4-Dichlorobenzene	ND	10
95-50-1	1,2-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	320	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	580	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	820	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH11-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg (ppb)----	D.L.
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	1100	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	560	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	1800	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	370	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH12-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	ND	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	470	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	390	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6705

Sample I.D.: BH13-1
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	320	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: BH13-2
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	ND	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: Sump
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg (ppb)----	D.L.
83-32-9	Acenaphthene	ND	300
208-96-8	Acenapthylene	ND	300
120-12-7	Anthracene	ND	300
56-55-3	Benzo(a)Anthracene	ND	300
205-99-2	Benzo(b & k)Fluoranthenes	ND	300
191-24-2	Benzo(ghi)perylene	ND	300
50-32-8	Benzo(a)pyrene	ND	300
65-85-0	Benzoic Acid	ND	2000
100-51-6	Benzyl Alcohol	ND	300
111-91-1	Bis(2-Chloroethoxy) Methane	ND	300
111-44-4	Bis(2-Chloroethyl) Ether	ND	300
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	300
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	2000
101-55-3	4-Bromophenyl Phenyl Ether	ND	300
85-68-7	Butyl Benzyl Phthalate	ND	300
106-47-8	4-Chloroaniline	ND	300
59-50-7	4-Chloro-3-Methylphenol	ND	300
91-58-7	2-Chloronaphthalene	ND	300
95-57-8	2-Chlorophenol	ND	300
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	300
218-01-9	Chrysene	ND	300
53-70-3	Dibenzo(a,h)anthracene	ND	300
132-64-9	Dibenzofuran	ND	300
84-74-2	Di-N-Butyl Phthalate	ND	300
95-50-1	1,2-Dichlorobenzene	ND	300
541-73-1	1,3-Dichlorobenzene	ND	300
106-46-7	1,4-Dichlorobenzene	ND	300
91-94-1	3,3'-Dichlorobenzidine	ND	700
120-83-2	2,4-Dichlorophenol	ND	300
84-66-2	Diethyl Phthalate	ND	300
105-67-9	2,4-Dimethylphenol	ND	300
131-11-3	Dimethyl Phthalate	ND	300
534-52-1	4,6-Dinitro-2-Methylphenol	ND	2000
51-28-5	2,4-Dinitrophenol	ND	2000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 9080
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: Sump
Date Received: 1/6/90
Date Extracted: 1/9/90
Date Analyzed: 1/19/90
Matrix: Soil
Project #: 0389058
File #: mkrob1.rep

Compound		Result ----ug/kg	D.L. (ppb)----
121-14-2	2,4-Dinitrotoluene	ND	300
606-20-2	2,6-Dinitrotoluene	ND	300
117-84-0	Di-N-Octyl Phthalate	ND	300
206-44-0	Fluoranthene	ND	300
86-73-7	Fluorene	ND	300
118-74-1	Hexachlorobenzene	ND	300
87-68-3	Hexachlorobutadiene	ND	300
77-47-4	Hexachlorocyclopentadiene	ND	300
67-72-1	Hexachloroethane	ND	300
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300
78-59-1	Isophorone	ND	300
91-57-6	2-Methylnaphthalene	ND	300
95-48-7	2-Methylphenol	ND	300
106-44-5	4-Methylphenol	ND	300
91-20-3	Naphthalene	ND	300
88-74-4	2-Nitroaniline	ND	2000
99-09-2	3-Nitroaniline	ND	2000
100-01-6	4-Nitroaniline	ND	2000
98-95-3	Nitrobenzene	ND	300
88-75-5	2-Nitrophenol	ND	300
100-02-7	4-Nitrophenol	ND	2000
86-30-6	N-Nitrosodiphenylamine	ND	300
621-64-7	N-Nitrosodipropylamine	ND	300
87-86-5	Pentachlorophenol	ND	2000
85-01-8	Phenanthrene	ND	300
108-95-2	Phenol	ND	300
129-00-0	Pyrene	ND	300
120-82-1	1,2,4-Trichlorobenzene	ND	300
95-95-4	2,4,5-Trichlorophenol	ND	2000
88-06-2	2,4,6-Trichlorophenol	ND	300

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

MEMO

To: John Cummings

From: Curtis B. Jenkins

January 26, 1990

Job No.: 0389058

LABORATORY REPORT

Samples: Thirty (30) water samples from Mike Roberts Color Production, received 1/11/90 analyzed 1/19/90 and 1/23/90. Twenty four (24) samples to be analyzed and the remainder to be archived.

Sample ID	EPA 8015 Modified	EPA 418.1
	mg/L	
MW1-1W	ND	0.5
MW3-1W	ND	0.6
MW5-1W	ND	0.7
MW6-1W	ND	1.2
MW7-1W	ND	0.8
MW8-1W	ND	[illegible]
Detection Limit	10	0.5

EPA 624 & EPA 625 - see attached sheets

David Mikesell
Chemist

Curtis B. Jenkins
Laboratory Director

mkrob3.rep

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW1-1W
Date Received: 1/11/90
Date Analyzed: 1/23/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

CAS #	Compound	Result	D.L.
		-----ug/L(ppb)-----	
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	30
56-23-5	Carbon Tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	30
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethylbenzene	ND	5
75-09-2	Methylene Chloride	ND	50
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
108-88-3	Toluene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
79-01-6	Trichloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	5
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	5
95-47-6	o-Xylene	ND	5

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW3-1W
Date Received: 1/11/90
Date Analyzed: 1/23/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

CAS #	Compound	Result	D.L.
		-----ug/L(ppb)-----	
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	30
56-23-5	Carbon Tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	30
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethylbenzene	ND	5
75-09-2	Methylene Chloride	ND	50
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
108-88-3	Toluene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
79-01-6	Trichloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	5
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	5
95-47-6	o-Xylene	ND	5

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW5-1W
Date Received: 1/11/90
Date Analyzed: 1/23/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

CAS #	Compound	Result ug/L(ppb)	D.L.
71-43-2	Benzene	12	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	30
56-23-5	Carbon Tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	30
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethylbenzene	ND	5
75-09-2	Methylene Chloride	ND	50
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
108-88-3	Toluene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
79-01-6	Trichloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	5
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	5
95-47-6	o-Xylene	ND	5

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW6-1W
Date Received: 1/11/90
Date Analyzed: 1/23/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

CAS #	Compound	Result	D.L.
		-----ug/L(ppb)-----	
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	30
56-23-5	Carbon Tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	30
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethylbenzene	ND	5
75-09-2	Methylene Chloride	ND	50
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
108-88-3	Toluene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
79-01-6	Trichloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	5
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	5
95-47-6	o-Xylene	ND	5

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1W
Date Received: 1/11/90
Date Analyzed: 1/23/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

CAS #	Compound	Result	D.L.
		-----ug/L(ppb)-----	
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	30
56-23-5	Carbon Tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	30
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethylbenzene	ND	5
75-09-2	Methylene Chloride	ND	50
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
108-88-3	Toluene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
79-01-6	Trichloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	5
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	5
95-47-6	o-Xylene	ND	5

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1W
Date Received: 1/11/90
Date Analyzed: 1/23/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

CAS #	Compound	Result	D.L.
		-----ug/L(ppb)-----	
71-43-2	Benzene	2100	1000
75-27-4	Bromodichloromethane	ND	1000
75-25-2	Bromoform	ND	1000
74-83-9	Bromomethane	ND	6000
56-23-5	Carbon Tetrachloride	ND	1000
108-90-7	Chlorobenzene	ND	1000
75-00-3	Chloroethane	ND	6000
110-75-8	2-Chloroethyl Vinyl Ether	ND	10000
67-66-3	Chloroform	ND	1000
74-87-3	Chloromethane	ND	6000
124-48-1	Dibromochloromethane	ND	1000
95-50-1	1,2-Dichlorobenzene	ND	1000
541-73-1	1,3-Dichlorobenzene	ND	1000
106-46-7	1,4-Dichlorobenzene	ND	1000
75-34-3	1,1-Dichloroethane	ND	1000
107-06-2	1,2-Dichloroethane	ND	1000
75-35-4	1,1-Dichloroethene	ND	1000
156-60-5	trans-1,2-Dichloroethene	ND	1000
78-87-5	1,2-Dichloropropane	ND	1000
10061-01-5	cis-1,3-Dichloropropene	ND	1000
10061-02-6	trans-1,3-Dichloropropene	ND	1000
100-41-4	Ethylbenzene	ND	1000
75-09-2	Methylene Chloride	ND	10000
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000
127-18-4	Tetrachloroethene	ND	1000
108-88-3	Toluene	ND	1000
71-55-6	1,1,1-Trichloroethane	ND	1000
79-00-5	1,1,2-Trichloroethane	ND	1000
79-01-6	Trichloroethene	ND	1000
75-69-4	Trichlorofluoromethane	ND	1000
75-01-4	Vinyl Chloride	ND	6000
1330-20-7	m- and p-Xylenes	ND	1000
95-47-6	o-Xylene	ND	1000

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1W
Date Received: 1/11/90
Date Analyzed: 1/23/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

TENTANTIVELY IDENTIFIED COMPOUNDS

COMPOUND NAME	APPROXIMATE CONCENTRATION (ppb)
MIBK	>160,000
Ethyl Acetate	>20,000
Butyl Acetate	5,800
Propyl Acetate	>32,000
Propyl Ester of Propanoic Acid	2,500
Ethyl Butyl Ether	>12,000
C6 Alcohol	34,000

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW1-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)	D.L. ------
83-32-9	Acenaphthene	ND	20
208-96-8	Acenapthylene	ND	20
120-12-7	Anthracene	ND	20
92-87-5	Benzidine	ND	100
56-55-3	Benzo(a)Anthracene	ND	20
205-99-2	Benzo(b & k)Fluoranthenes	ND	20
191-24-2	Benzo(ghi)perylene	ND	20
50-32-8	Benzo(a)pyrene	ND	20
65-85-0	Benzoic Acid	ND	100
100-51-6	Benzyl Alcohol	ND	20
111-91-1	Bis(2-Chloroethoxy) Methane	ND	20
111-44-4	Bis(2-Chloroethyl) Ether	ND	20
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	20
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	100
101-55-3	4-Bromophenyl Phenyl Ether	ND	20
85-68-7	Butyl Benzyl Phthalate	ND	20
106-47-8	4-Chloroaniline	ND	20
59-50-7	4-Chloro-3-Methylphenol	ND	20
91-58-7	2-Chloronaphthalene	ND	20
95-57-8	2-Chlorophenol	ND	20
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	20
218-01-9	Chrysene	ND	20
53-70-3	Dibenzo(a,h)anthracene	ND	20
132-64-9	Dibenzofuran	ND	20
84-74-2	Di-N-Butyl Phthalate	ND	20
95-50-1	1,2-Dichlorobenzene	ND	20
541-73-1	1,3-Dichlorobenzene	ND	20
106-46-7	1,4-Dichlorobenzene	ND	20
91-94-1	3,3'-Dichlorobenzidine	ND	20
120-83-2	2,4-Dichlorophenol	ND	20
84-66-2	Diethyl Phthalate	ND	20
105-67-9	2,4-Dimethylphenol	ND	20
131-11-3	Dimethyl Phthalate	ND	20
534-52-1	4,6-Dinitro-2-Methylphenol	ND	100
51-28-5	2,4-Dinitrophenol	ND	100

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW1-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)----	D.L.
121-14-2	2,4-Dinitrotoluene	ND	20
606-20-2	2,6-Dinitrotoluene	ND	20
117-84-0	Di-N-Octyl Phthalate	ND	20
206-44-0	Fluoranthene	ND	20
86-73-7	Fluorene	ND	20
118-74-1	Hexachlorobenzene	ND	20
87-68-3	Hexachlorobutadiene	ND	20
77-47-4	Hexachlorocyclopentadiene	ND	20
67-72-1	Hexachloroethane	ND	20
193-39-5	Indeno(1,2,3-cd)pyrene	ND	20
78-59-1	Isophorone	ND	20
91-57-6	2-Methylnaphthalene	ND	20
95-48-7	2-Methylphenol	ND	20
106-44-5	3 & 4-Methylphenols	ND	20
91-20-3	Naphthalene	ND	20
88-74-4	2-Nitroaniline	ND	100
99-09-2	3-Nitroaniline	ND	100
100-01-6	4-Nitroaniline	ND	100
98-95-3	Nitrobenzene	ND	20
88-75-5	2-Nitrophenol	ND	20
100-02-7	4-Nitrophenol	ND	100
86-30-6	N-Nitrosodiphenylamine	ND	20
621-64-7	N-Nitrosodipropylamine	ND	20
87-86-5	Pentachlorophenol	ND	100
85-01-8	Phenanthrene	ND	20
108-95-2	Phenol	ND	20
129-00-0	Pyrene	ND	20
120-82-1	1,2,4-Trichlorobenzene	ND	20
95-95-4	2,4,5-Trichlorophenol	ND	100
88-06-2	2,4,6-Trichlorophenol	ND	20

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW3-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)----	D.L.
83-32-9	Acenaphthene	ND	20
208-96-8	Acenapthylene	ND	20
120-12-7	Anthracene	ND	20
92-87-5	Benzidine	ND	100
56-55-3	Benzo(a)Anthracene	ND	20
205-99-2	Benzo(b & k)Fluoranthenes	ND	20
191-24-2	Benzo(ghi)perylene	ND	20
50-32-8	Benzo(a)pyrene	ND	20
65-85-0	Benzoic Acid	ND	100
100-51-6	Benzyl Alcohol	ND	20
111-91-1	Bis(2-Chloroethoxy) Methane	ND	20
111-44-4	Bis(2-Chloroethyl) Ether	ND	20
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	20
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	100
101-55-3	4-Bromophenyl Phenyl Ether	ND	20
85-68-7	Butyl Benzyl Phthalate	ND	20
106-47-8	4-Chloroaniline	ND	20
59-50-7	4-Chloro-3-Methylphenol	ND	20
91-58-7	2-Chloronaphthalene	ND	20
95-57-8	2-Chlorophenol	ND	20
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	20
218-01-9	Chrysene	ND	20
53-70-3	Dibenzo(a,h)anthracene	ND	20
132-64-9	Dibenzofuran	ND	20
84-74-2	Di-N-Butyl Phthalate	ND	20
95-50-1	1,2-Dichlorobenzene	ND	20
541-73-1	1,3-Dichlorobenzene	ND	20
106-46-7	1,4-Dichlorobenzene	ND	20
91-94-1	3,3'-Dichlorobenzidine	ND	20
120-83-2	2,4-Dichlorophenol	ND	20
84-66-2	Diethyl Phthalate	ND	20
105-67-9	2,4-Dimethylphenol	ND	20
131-11-3	Dimethyl Phthalate	ND	20
534-52-1	4,6-Dinitro-2-Methylphenol	ND	100
51-28-5	2,4-Dinitrophenol	ND	100

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW3-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)	D.L. ------
121-14-2	2,4-Dinitrotoluene	ND	20
606-20-2	2,6-Dinitrotoluene	ND	20
117-84-0	Di-N-Octyl Phthalate	ND	20
206-44-0	Fluoranthene	ND	20
86-73-7	Fluorene	ND	20
118-74-1	Hexachlorobenzene	ND	20
87-68-3	Hexachlorobutadiene	ND	20
77-47-4	Hexachlorocyclopentadiene	ND	20
67-72-1	Hexachloroethane	ND	20
193-39-5	Indeno(1,2,3-cd)pyrene	ND	20
78-59-1	Isophorone	ND	20
91-57-6	2-Methylnaphthalene	ND	20
95-48-7	2-Methylphenol	ND	20
106-44-5	3 & 4-Methylphenols	ND	20
91-20-3	Naphthalene	ND	20
88-74-4	2-Nitroaniline	ND	100
99-09-2	3-Nitroaniline	ND	100
100-01-6	4-Nitroaniline	ND	100
98-95-3	Nitrobenzene	ND	20
88-75-5	2-Nitrophenol	ND	20
100-02-7	4-Nitrophenol	ND	100
86-30-6	N-Nitrosodiphenylamine	ND	20
621-64-7	N-Nitrosodipropylamine	ND	20
87-86-5	Pentachlorophenol	ND	100
85-01-8	Phenanthrene	ND	20
108-95-2	Phenol	ND	20
129-00-0	Pyrene	ND	20
120-82-1	1,2,4-Trichlorobenzene	ND	20
95-95-4	2,4,5-Trichlorophenol	ND	100
88-06-2	2,4,6-Trichlorophenol	ND	20

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW5-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)----	D.L. ------
83-32-9	Acenaphthene	ND	20
208-96-8	Acenapthylene	ND	20
120-12-7	Anthracene	ND	20
92-87-5	Benzidine	ND	100
56-55-3	Benzo(a)Anthracene	ND	20
205-99-2	Benzo(b & k)Fluoranthenes	ND	20
191-24-2	Benzo(ghi)perylene	ND	20
50-32-8	Benzo(a)pyrene	ND	20
65-85-0	Benzoic Acid	ND	100
100-51-6	Benzyl Alcohol	ND	20
111-91-1	Bis(2-Chloroethoxy) Methane	ND	20
111-44-4	Bis(2-Chloroethyl) Ether	ND	20
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	20
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	100
101-55-3	4-Bromophenyl Phenyl Ether	ND	20
85-68-7	Butyl Benzyl Phthalate	ND	20
106-47-8	4-Chloroaniline	ND	20
59-50-7	4-Chloro-3-Methylphenol	ND	20
91-58-7	2-Chloronaphthalene	ND	20
95-57-8	2-Chlorophenol	ND	20
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	20
218-01-9	Chrysene	ND	20
53-70-3	Dibenzo(a,h)anthracene	ND	20
132-64-9	Dibenzofuran	ND	20
84-74-2	Di-N-Butyl Phthalate	ND	20
95-50-1	1,2-Dichlorobenzene	ND	20
541-73-1	1,3-Dichlorobenzene	ND	20
106-46-7	1,4-Dichlorobenzene	ND	20
91-94-1	3,3'-Dichlorobenzidine	ND	20
120-83-2	2,4-Dichlorophenol	ND	20
84-66-2	Diethyl Phthalate	ND	20
105-67-9	2,4-Dimethylphenol	ND	20
131-11-3	Dimethyl Phthalate	ND	20
534-52-1	4,6-Dinitro-2-Methylphenol	ND	100
51-28-5	2,4-Dinitrophenol	ND	100

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW5-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)	D.L. ------
121-14-2	2,4-Dinitrotoluene	ND	20
606-20-2	2,6-Dinitrotoluene	ND	20
117-84-0	Di-N-Octyl Phthalate	ND	20
206-44-0	Fluoranthene	ND	20
86-73-7	Fluorene	ND	20
118-74-1	Hexachlorobenzene	ND	20
87-68-3	Hexachlorobutadiene	ND	20
77-47-4	Hexachlorocyclopentadiene	ND	20
67-72-1	Hexachloroethane	ND	20
193-39-5	Indeno(1,2,3-cd)pyrene	ND	20
78-59-1	Isophorone	ND	20
91-57-6	2-Methylnaphthalene	ND	20
95-48-7	2-Methylphenol	ND	20
106-44-5	3 & 4-Methylphenols	ND	20
91-20-3	Naphthalene	ND	20
88-74-4	2-Nitroaniline	ND	100
99-09-2	3-Nitroaniline	ND	100
100-01-6	4-Nitroaniline	ND	100
98-95-3	Nitrobenzene	ND	20
88-75-5	2-Nitrophenol	ND	20
100-02-7	4-Nitrophenol	ND	100
86-30-6	N-Nitrosodiphenylamine	ND	20
621-64-7	N-Nitrosodipropylamine	ND	20
87-86-5	Pentachlorophenol	ND	100
85-01-8	Phenanthrene	ND	20
108-95-2	Phenol	ND	20
129-00-0	Pyrene	ND	20
120-82-1	1,2,4-Trichlorobenzene	ND	20
95-95-4	2,4,5-Trichlorophenol	ND	100
88-06-2	2,4,6-Trichlorophenol	ND	20

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW6-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)	D.L. ------
83-32-9	Acenaphthene	ND	20
208-96-8	Acenapthylene	ND	20
120-12-7	Anthracene	ND	20
92-87-5	Benzidine	ND	100
56-55-3	Benzo(a)Anthracene	ND	20
205-99-2	Benzo(b & k)Fluoranthenes	ND	20
191-24-2	Benzo(ghi)perylene	ND	20
50-32-8	Benzo(a)pyrene	ND	20
65-85-0	Benzoic Acid	ND	100
100-51-6	Benzyl Alcohol	ND	20
111-91-1	Bis(2-Chloroethoxy) Methane	ND	20
111-44-4	Bis(2-Chloroethyl) Ether	ND	20
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	20
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	100
101-55-3	4-Bromophenyl Phenyl Ether	ND	20
85-68-7	Butyl Benzyl Phthalate	ND	20
106-47-8	4-Chloroaniline	ND	20
59-50-7	4-Chloro-3-Methylphenol	ND	20
91-58-7	2-Chloronaphthalene	ND	20
95-57-8	2-Chlorophenol	ND	20
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	20
218-01-9	Chrysene	ND	20
53-70-3	Dibenzo(a,h)anthracene	ND	20
132-64-9	Dibenzofuran	ND	20
84-74-2	Di-N-Butyl Phthalate	ND	20
95-50-1	1,2-Dichlorobenzene	ND	20
541-73-1	1,3-Dichlorobenzene	ND	20
106-46-7	1,4-Dichlorobenzene	ND	20
91-94-1	3,3'-Dichlorobenzidine	ND	20
120-83-2	2,4-Dichlorophenol	ND	20
84-66-2	Diethyl Phthalate	ND	20
105-67-9	2,4-Dimethylphenol	ND	20
131-11-3	Dimethyl Phthalate	ND	20
534-52-1	4,6-Dinitro-2-Methylphenol	ND	100
51-28-5	2,4-Dinitrophenol	ND	100

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW6-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)	D.L. ------
121-14-2	2,4-Dinitrotoluene	ND	20
606-20-2	2,6-Dinitrotoluene	ND	20
117-84-0	Di-N-Octyl Phthalate	ND	20
206-44-0	Fluoranthene	ND	20
86-73-7	Fluorene	ND	20
118-74-1	Hexachlorobenzene	ND	20
87-68-3	Hexachlorobutadiene	ND	20
77-47-4	Hexachlorocyclopentadiene	ND	20
67-72-1	Hexachloroethane	ND	20
193-39-5	Indeno(1,2,3-cd)pyrene	ND	20
78-59-1	Isophorone	ND	20
91-57-6	2-Methylnaphthalene	ND	20
95-48-7	2-Methylphenol	ND	20
106-44-5	3 & 4-Methylphenols	ND	20
91-20-3	Naphthalene	ND	20
88-74-4	2-Nitroaniline	ND	100
99-09-2	3-Nitroaniline	ND	100
100-01-6	4-Nitroaniline	ND	100
98-95-3	Nitrobenzene	ND	20
88-75-5	2-Nitrophenol	ND	20
100-02-7	4-Nitrophenol	ND	100
86-30-6	N-Nitrosodiphenylamine	ND	20
621-64-7	N-Nitrosodipropylamine	ND	20
87-86-5	Pentachlorophenol	ND	100
85-01-8	Phenanthrene	ND	20
108-95-2	Phenol	ND	20
129-00-0	Pyrene	ND	20
120-82-1	1,2,4-Trichlorobenzene	ND	20
95-95-4	2,4,5-Trichlorophenol	ND	100
88-06-2	2,4,6-Trichlorophenol	ND	20

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)	D.L. ------
83-32-9	Acenaphthene	ND	20
208-96-8	Acenapthylene	ND	20
120-12-7	Anthracene	ND	20
92-87-5	Benzidine	ND	100
56-55-3	Benzo(a)Anthracene	ND	20
205-99-2	Benzo(b & k)Fluoranthenes	ND	20
191-24-2	Benzo(ghi)perylene	ND	20
50-32-8	Benzo(a)pyrene	ND	20
65-85-0	Benzoic Acid	ND	100
100-51-6	Benzyl Alcohol	ND	20
111-91-1	Bis(2-Chloroethoxy) Methane	ND	20
111-44-4	Bis(2-Chloroethyl) Ether	ND	20
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	20
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	100
101-55-3	4-Bromophenyl Phenyl Ether	ND	20
85-68-7	Butyl Benzyl Phthalate	ND	20
106-47-8	4-Chloroaniline	ND	20
59-50-7	4-Chloro-3-Methylphenol	ND	20
91-58-7	2-Chloronaphthalene	ND	20
95-57-8	2-Chlorophenol	ND	20
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	20
218-01-9	Chrysene	ND	20
53-70-3	Dibenzo(a,h)anthracene	ND	20
132-64-9	Dibenzofuran	ND	20
84-74-2	Di-N-Butyl Phthalate	ND	20
95-50-1	1,2-Dichlorobenzene	ND	20
541-73-1	1,3-Dichlorobenzene	ND	20
106-46-7	1,4-Dichlorobenzene	ND	20
91-94-1	3,3'-Dichlorobenzidine	ND	20
120-83-2	2,4-Dichlorophenol	ND	20
84-66-2	Diethyl Phthalate	ND	20
105-67-9	2,4-Dimethylphenol	ND	20
131-11-3	Dimethyl Phthalate	ND	20
534-52-1	4,6-Dinitro-2-Methylphenol	ND	100
51-28-5	2,4-Dinitrophenol	ND	100

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)----	D.L.
121-14-2	2,4-Dinitrotoluene	ND	20
606-20-2	2,6-Dinitrotoluene	ND	20
117-84-0	Di-N-Octyl Phthalate	ND	20
206-44-0	Fluoranthene	ND	20
86-73-7	Fluorene	ND	20
118-74-1	Hexachlorobenzene	ND	20
87-68-3	Hexachlorobutadiene	ND	20
77-47-4	Hexachlorocyclopentadiene	ND	20
67-72-1	Hexachloroethane	ND	20
193-39-5	Indeno(1,2,3-cd)pyrene	ND	20
78-59-1	Isophorone	ND	20
91-57-6	2-Methylnaphthalene	ND	20
95-48-7	2-Methylphenol	ND	20
106-44-5	3 & 4-Methylphenols	ND	20
91-20-3	Naphthalene	ND	20
88-74-4	2-Nitroaniline	ND	100
99-09-2	3-Nitroaniline	ND	100
100-01-6	4-Nitroaniline	ND	100
98-95-3	Nitrobenzene	ND	20
88-75-5	2-Nitrophenol	ND	20
100-02-7	4-Nitrophenol	ND	100
86-30-6	N-Nitrosodiphenylamine	ND	20
621-64-7	N-Nitrosodipropylamine	ND	20
87-86-5	Pentachlorophenol	ND	100
85-01-8	Phenanthrene	ND	20
108-95-2	Phenol	ND	20
129-00-0	Pyrene	ND	20
120-82-1	1,2,4-Trichlorobenzene	ND	20
95-95-4	2,4,5-Trichlorophenol	ND	100
88-06-2	2,4,6-Trichlorophenol	ND	20

D.L. = Detection Limit
ND = Not detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)----	D.L.
83-32-9	Acenaphthene	ND	150
208-96-8	Acenapthylene	ND	150
120-12-7	Anthracene	ND	150
92-87-5	Benzidine	ND	750
56-55-3	Benzo(a)Anthracene	ND	150
205-99-2	Benzo(b & k)Fluoranthenes	ND	150
191-24-2	Benzo(ghi)perylene	ND	150
50-32-8	Benzo(a)pyrene	ND	150
65-85-0	Benzoic Acid	ND	750
100-51-6	Benzyl Alcohol	ND	150
111-91-1	Bis(2-Chloroethoxy) Methane	ND	150
111-44-4	Bis(2-Chloroethyl) Ether	ND	150
39638-32-9	Bis(2-Chloroisopropyl) Ether	ND	150
117-81-7	Bis(2-ethylhexyl) Phthalate	ND	750
101-55-3	4-Bromophenyl Phenyl Ether	ND	150
85-68-7	Butyl Benzyl Phthalate	ND	150
106-47-8	4-Chloroaniline	ND	150
59-50-7	4-Chloro-3-Methylphenol	ND	150
91-58-7	2-Chloronaphthalene	ND	150
95-57-8	2-Chlorophenol	ND	150
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	150
218-01-9	Chrysene	ND	150
53-70-3	Dibenzo(a,h)anthracene	ND	150
132-64-9	Dibenzofuran	ND	150
84-74-2	Di-N-Butyl Phthalate	ND	150
95-50-1	1,2-Dichlorobenzene	ND	150
541-73-1	1,3-Dichlorobenzene	ND	150
106-46-7	1,4-Dichlorobenzene	ND	150
91-94-1	3,3'-Dichlorobenzidine	ND	150
120-83-2	2,4-Dichlorophenol	ND	150
84-66-2	Diethyl Phthalate	ND	150
105-67-9	2,4-Dimethylphenol	ND	150
131-11-3	Dimethyl Phthalate	ND	150
534-52-1	4,6-Dinitro-2-Methylphenol	ND	750
51-28-5	2,4-Dinitrophenol	ND	750

D.L. = Detection Limit
ND = Not Detected

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW7-1W
Date Received: 1/11/90
Date Extracted: 1/15/90
Date Analyzed: 1/19/90
Matrix: Water
Project #: 0389058
File #: mkrob3.rep

Compound		Result ----ug/l (ppb)----	D.L.
121-14-2	2,4-Dinitrotoluene	ND	150
606-20-2	2,6-Dinitrotoluene	ND	150
117-84-0	Di-N-Octyl Phthalate	ND	150
206-44-0	Fluoranthene	ND	150
86-73-7	Fluorene	ND	150
118-74-1	Hexachlorobenzene	ND	150
87-68-3	Hexachlorobutadiene	ND	150
77-47-4	Hexachlorocyclopentadiene	ND	150
67-72-1	Hexachloroethane	ND	150
193-39-5	Indeno(1,2,3-cd)pyrene	ND	150
78-59-1	Isophorone	ND	150
91-57-6	2-Methylnaphthalene	ND	150
95-48-7	2-Methylphenol	ND	150
106-44-5	3 & 4-Methylphenols	ND	150
91-20-3	Naphthalene	ND	150
88-74-4	2-Nitroaniline	ND	750
99-09-2	3-Nitroaniline	ND	750
100-01-6	4-Nitroaniline	ND	750
98-95-3	Nitrobenzene	ND	150
88-75-5	2-Nitrophenol	ND	150
100-02-7	4-Nitrophenol	ND	750
86-30-6	N-Nitrosodiphenylamine	ND	150
621-64-7	N-Nitrosodipropylamine	ND	150
87-86-5	Pentachlorophenol	ND	750
85-01-8	Phenanthrene	ND	150
108-95-2	Phenol	ND	150
129-00-0	Pyrene	ND	150
120-82-1	1,2,4-Trichlorobenzene	ND	150
95-95-4	2,4,5-Trichlorophenol	ND	750
88-06-2	2,4,6-Trichlorophenol	ND	150

D.L. = Detection Limit
ND = Not detected

TENTANTIVELY IDENTIFIED COMPOUNDS

COMPOUND NAME	APPROXIMATE CONCENTRATION
C_5 through C_8 Fatty Acids	41,000

CHAIN OF CUSTODY RECORD

363

SCS ANALYTICAL LABORATORY
2660 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324

PERSONNEL

Sampler (Signature) Don McClenagan
Phone 415 829-0661
Field Crew Supervisor
Field Company
Project Geologist/Engineer Don McClenagan

SITE INFORMATION

Job Name Mike Roberts Color Productions
Job Number 0389058.00
Sample Location Emeryville
P.O. Number

Relinquished by (Signature)	Received by (Signature)	Date	Time
Don McClenagan			
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
MW7-1	Soil	1	MRCP	1-3-90	- CAM metals	
MW7-2	"	"	"	"	-8080, ~~8015~~	
MW8-1	"	"	"	"	-8015 for Gas + Diesel	
MW8-2	"	"	"	"		
B9-1	"	"	"	1-4-90	- 503 D	
B9-2	"	"	"	1-4 "	-8240	
B10-1	"	"	"	1-4 "	-8270	
B10-2	"	"	"	1-4 "		
					All samples analyzed with these methods	

Remarks: Please send results to John Cummings. Please return cooler, blue ice, some brass tubes, + COC

CHAIN OF CUSTODY RECORD

364

SCS ANALYTICAL LABORATORY
2660 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324

PERSONNEL

Sampler (Signature) Don McClenagan
Phone 415 829-0661
Field Crew Supervisor
Field Company
Project Geologist/Engineer Don McClenagan

SITE INFORMATION

Job Name Mike Roberts Color Production
Job Number 0389058.
Sample Location Emeryville
P.O. Number

Relinquished by (Signature)	Received by (Signature)	Date	Time
Don McClenagan			
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
B11-1	Soil	1	MRCP	1-4-90	- CAM metals	
B11-2	"	"	"	"	- 8080	
B12-1	"	"	"	"	- 8015 for Gas + Diesel	
B12-2	"	"	"	"		
B13-1	"	"	"	"	- 503D	
B13-2	"	"	"	"	- 8240	
					- 8270	
SUMP	Soil	1	MRCP	1-5-90	SAME AS ABOVE	

Remarks: Please send results to John Cummings. Please return ice chest, blue ice, COC and brass tubes.

CHAIN OF CUSTODY RECORD

366

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324

PERSONNEL

Sampler (Signature) Don McClenagun
Phone 415 829 0661
Field Crew Supervisor
Field Company D. Davis
Project Geologist/Engineer Don McClenagun

SITE INFORMATION

Job Name Mike Roberts Color Production (MRCP)
Job Number 0389058.00
Sample Location Emeryville
P.O. Number

Relinquished by (Signature)	Received by (Signature)	Date	Time
Don McClenagun 1-10-89			
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
MW1-1W	Water	5	MRCP	1-10-90	418, 8015 mod-	
MW3-1W	"	"	"	1-10-90	ified, 624,	
MW5-1W	"	"	"	1-10-90	and 625	
MW6-1W	"	"	"	1-10-90		
MW7-1W	"	"	"	1-9-90	for all	
MW8-1W	"	"	"	1-8-90	↓	

Remarks: 30 containers. Each sample in 2-one liter jars and 3-VOA's. Liter jar marked for 418 anal. has been acidified. Results to John Cummings.

Environmental Consultants

6761 Sierra Court
Suite D
Dublin, CA 94568

415 829-0661
FAX 415 829-5493

SCS ENGINEERS

December 19, 1989
File No. 0389058.00

Mr. John Nady, President
Nady Systems, Inc.
1145 - 65th Street
Oakland, California 94608

Subject: Environmental Review and Assessment of the Michael Roberts Color Production Property located at 6707 Bay Street, Emeryville, California.

Dear Mr. Nady:

SCS Engineers is pleased to present this review of the work that has been accomplished, with conclusions based on analytical data and investigations completed by prior consultants and a general site visit of the site at 6707 Bay Street in Emeryville.

The tank excavation has been completed with the three tanks removed. However the soil remaining appears to have a relatively high concentration of methyl-isobutyl-ketone. This material is extremely volatile and can be hazardous to humans in air. The material, upon agreement with George Wilson of L & W Environmental Services, has been placed back into the excavation with a plan to complete a soil vapor extraction curb operation. Polyvinyl chloride perforated tubes will be placed into the soil, which appears to be silty sand, and will draw out the highly volatile methyl-isobutyl-ketone. The effluent vapor will be put through a carbon absorption unit to

take out the ketone materials. This soil extraction mechanism is estimated to take approximately four months, is a relatively simple program, and should not require more than $30,000. This is a part of the tank removal cost.

SCS Engineers will continue to review all of the agency records and lists for various hazardous information concerning toxic or hazardous spills, leaks, etc. SCS Engineers also intends to do five soil borings to ascertain the condition of the soil with respect to oil, grease, and metals. SCS Engineers will also place a monitoring well, at least one and possibly two, close to the southern edge of the property to ascertain whether the gasoline degradation products found in Monitoring Well 5 are caused by migration of contaminated water from off-site contamination through the property.

It should be noted that on Friday December 15th, Mr. Cummings and Mr. Kent Madenwald of SCS Engineers went to the next door property and found a fairly large pit (i.e., 12 to 14 feet across and approximately 35 feet in length) which had waste oil product floating on the water in the pit at approximately 4 to 4-1/2 feet. It is possible that this material, which we know is upgradient, is actually the contaminant migrating onto the property at 6707 Bay Street.

The Monitoring Wells on the sites 1 through 5 shall be sampled again and the water analyzed for total petroleum hydrocarbons as gas and diesel, for volatile organic trouble hydrocarbons and for nonvolatile hydrocarbons (i.e., grease as well as metals). SCS Engineers expects to review the removal of the 22 drums on site which have already been examined and are prepared for transportation off-site to a "Class 1" TSD facility. Based upon the analysis and the sampling, as well as other investigations which should be completed within the next two weeks, SCS Engineers expects that in the worst case the Monitoring Well number 5 may have to become a remediation well. The water extracted from that well will be placed through some sort of "carbon filter" to remove the benzene and other gasoline by-product contaminants from the water, with the effluent water being sent to a sanitary sewer, to the local P.O.T.W. It is expected that the entire analysis and report of recommendations conclusions and summary shall be completed in 45 days. The estimated cost of having to place a remediation unit for the suspected groundwater contamination should be about $35,000.

SCS Engineers will also recommend that all the monitoring wells be monitored quarterly for the next year. Based on the results after the year, a recommendation

will be made as to whether continuing monitoring is required or if the problem is sufficiently controlled and there is no longer a need for quarterly monitoring.

Should you have any questions concerning this letter, please call me or Kent Madenwald at (415) 829-0661.

Sincerely,

John P. Cummings, Ph.D., R.E.A.
Project Director
SCS Engineers

Kent A. Madenwald
Project Manager
SCS Engineers

JPC/tls

cc: Mahesh Kharkar, Wells Fargo Bank
Robert P. Gates, Esq.

INTERIM REPORT ONE
6707 BAY STREET
EMERYVILLE, CALIFORNIA

91 FEB 27 PM 4:08

Prepared for:

Mr. Robert P. Gates
Erskine and Tulley
580 Market Street
San Francisco, California 94104

Prepared by:

SCS Engineers
6761 Sierra Court
Suite D
Dublin, California 94568

February 25, 1991

File Number 0389058.00

Environmental Consultants

6761 Sierra Court
Suite D
Dublin, CA 94568

415 829-0661
FAX 415 829-5493

SCS ENGINEERS

February 25, 1991
File No. 0389058.00

Mr. Robert P. Gates
Erskine and Tulley
580 Market Street
San Francisco, California 94104

Subject: Interim Report One
6707 Bay Street
Emeryville, California

Dear Mr. Gates:

SCS Engineers is pleased to present this interim report discussing environmental work at 6707 Bay Street in Emeryville, California done since the work discussed in the report titled Environmental Assessment dated January 30, 1990. The January report was prepared for Mr. Gates and discussed environmental work done on the 6707 Bay Street site.

The attached report contains the following elements:

Introduction
Field Methods
Chemical Methods
Summary and Conclusions
Recommendations

This report has been prepared specifically for Mr. Robert P. Gates with specific application to hazardous waste site investigations. The report has been prepared with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented.

SCS is pleased to provide Mr. Gates with this environmental service. If you have any questions, please contact either of the undersigned at (415) 829-0661.

Sincerely,

Don McClenagan

J. Don McClenagan
Project Geologist
SCS Engineers

John P. Cummings, Ph.D., R.E.A., R.E.P.
Office Director
SCS Engineers

JDM/JPC/sar

Attachments

cc: Dennis Byrne, Alameda County Department of Health Services

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1. Vicinity Map
2. Site Plan
3. Groundwater Gradient Map

APPENDIX:

A - Chemical Analysis Results Tables
B - Laboratory Reports, November and December 1990

SECTION 1
INTRODUCTION

BACKGROUND

Previous environmental work at 6707 Bay Street in Emeryville (subject site) was done by L & W Environmental Services, Incorporated (L & W) in 1989. The work done by L & W included an environmental site assessment and subsurface investigation of the subject site. Soil and groundwater samples were taken. Contamination of the soil and groundwater was detected.

A report discussing the subject site (see Figure 1) dated January 30, 1990 and titled Environmental Assessment was prepared by SCS Engineers (SCS). The report consisted of a preliminary site assessment and a discussion of results of a subsurface investigation by SCS. The subsurface investigation was carried out in January 1990 and consisted of soil borings, monitoring well constructions, and monitoring well sampling. Soil and groundwater samples were taken for analysis, and contamination by various compounds was detected in both the soil and the groundwater.

Some of the significant findings of the environmental work done in the two investigations were:

- The subject site was previously used, at least over part of its area, as a municipal landfill. This conclusion was indicated by aerial photographs and supported by the observation of landfill-type debris in samples taken during soil borings at the subject site. Prior to being used as a landfill, the site was apparently a tidal area or was completely inundated by the waters of the San Francisco Bay.

- Three underground storage tanks (USTs), previously used for the storage of chemicals and located near Bay Street at the front of the building, were removed from the site in the fall of 1989.

- The vadose zone (the zone above the water table) beneath the subject site is contaminated by, at various locations, high values of oil and grease, PCBs in low values, diesel, CAM metals, members of the BTEX group (benzene, toluene, ethylbenzene, and xylenes), semi-volatile organic compounds that are primarily coal tar derivatives, and methyl isobutyl ketone (MIBK) near the former tank pit. Low levels of soil contamination are found throughout most of the site, as would be expected in an old construction, soil, and debris landfill.

- The shallow groundwater beneath the site was also found to be contaminated, but, in both the lateral extent and degree of contamination, the contamination of the groundwater was found to be generally less than the vadose zone (soil) contamination. Six monitoring wells are located on-site and all were sampled by SCS. Compounds found in various of the wells included benzene, total petroleum hydrocarbons (TPH), and MIBK. For convenience, tables (Table 1 - Table 6) depicting the contaminants detected in the soil and water samples taken during the SCS investigation are included in Appendix A. Several typographic errors were found in the tables provided with the January 1990 SCS report. Also, some information was not available at the time that report was sent out. Those errors have been corrected and the omisssions included in the tables provided with this report. These tables should be used for reference instead of the tables published with the January 1990 report.

High concentration of MIBK was found in Monitoring Well 8 (MW8), the monitoring well installed immediately to the northwest of the area which formerly contained the USTs. Total petroleum hydrocarbons were identified and hydrocarbon fatty acids were tentatively identified in water samples taken from MW7, a well installed in the southwestern part of the subject site (see Figure 2). These results were obtained from sampling done in January of 1990.

SUMMARY OF WORK DONE SINCE JANUARY 1990

A well survey to determine the groundwater gradient and direction beneath the site was performed in February of 1990.

Pump tests of MW7 and MW8 were conducted in July 1990.

Design of a vadose zone and groundwater remediation system for the site began in February 1990. Construction of the remediation systems took place from June through September 1990.

The vapor extraction and treatment system went on line in July 1990. The groundwater extraction and treatment system was put in operation in October of 1990.

The groundwater remediation effluent and influent were sampled November and December of 1990 to provide indication as to the effectiveness of the system. Also, the rate of flow from the system was measured to determine the amount of water being discharged to the landscaped area.

REPORT PURPOSE

The purpose of this interim report is to provide updated information regarding the subsurface conditions and contamination beneath the subject site and details of the construction and operation of the remediation systems in service on the subject site.

SECTION 2
FIELD METHODS

WELL SURVEY

Depths to water in the six on-site wells were measured February 8, 1990 by SCS personnel using an electronic water level indicator. Relative elevations of the well casings were measured February 12, 1990 using a Nikon automatic level. The elevations were tied into a benchmark just north of an East Bay Mud manhole located to the east of the Bay Street overpass over Ashby Avenue. The identification on the benchmark was NI 145 + 90.38 EBMud. For the purpose of obtaining relative elevations, the benchmark was given an arbitrary elevation of 100 feet.

WELL PUMP TEST

On July 13, 1990, SCS personnel conducted a pump test on MW7 and MW8. In each case, the procedure was as follows. A Grundfos submersible pump was inserted down the well. Approximately three well volumes were pumped out of the well into a 55-gallon drum. After the flow had stabilized, the discharge from the well was redirected into a 5-gallon container marked with 1-gallon gradations. A stop watch was used to record the time required to pump one gallon of water from the well. The time to pump one gallon of water was measured five times, and the values recorded. The rates were averaged to find a pump rate value.

This modified pump test was used as an indication of aquifer characteristics. The pumping rate for MW7 during the test was approximately 0.1 gallons per minute (gpm). The pump rate for MW8 was 0.2 gpm. This rate was later compared with the maximum obtainable flow rate from the remediation system (Section 4., Flow Rate).

VAPOR SYSTEM CONSTRUCTION

A vapor extraction and treatment system was installed by SCS Engineers as part of a total remediation treatment designed to extract contaminants from both the soil and groundwater in the vicinity of the area formerly occupied by the three chemical USTs. The former tank pit had been backfilled with what appeared to be fine sand. Four 8-inch borings were drilled to a depth of approximately seven feet in a square pattern within the backfill area. Two-inch diameter, slotted PVC casing was wrapped with cheesecloth and inserted down each borehole. Number 3 sand was poured into the annular space up to a one foot depth below the surface. Bentonite was then placed in the annular space for the final foot of depth to act as a seal. Two of the vapor extraction wells were manifolded together. The other two wells served as air make-up wells.

After the two wells were manifolded together, the two inch piping was run through two carbon cannisters, connected in series, and hooked up to a Rotron blower. When the blower is turned on, a negative pressure is created in the two extraction wells. Vapor is pulled out of the ground and through the carbon cannisters. The organic vapors are adsorbed by the carbon pellets in the cannisters.

The vapor extraction system was analyzed periodically in accordance with guidelines set by the Bay Area Air Quality Management District. An Organic Vapor Meter Photo Ionization Detector was used to analyze three sampling ports (SP) on the system. SP1 is located before the two cannisters, SP2 is located between the cannisters, and SP3 serves to monitor the effluent from the system.

GROUNDWATER TREATMENT SYSTEM CONSTRUCTION

Two groundwater extraction and treatment systems were installed at the site. One system was installed in the vicinity of the tank pit using MW8 as the extraction well. One system was installed to treat contamination found in the water beneath the southwest part of the property using MW7 as the extraction well.

The treatment systems consist of two-stage pneumatic pumps installed down the monitoring wells. The pumps are driven by an air compressor and controlled by a centrally located control panel. The extracted water is pumped through a series of, in the case of the MW7 system, two carbon cannisters connected in series, and, with the MW8 system, a series of three carbon cannisters. The contaminants are adsorbed by the carbon. The piping carrying the treated water is then joined together, and the combined effluent from both wells is used to irrigate the landscaped area on the subject site.

SAMPLING OF GROUNDWATER TREATMENT SYSTEM

The groundwater treatment system was sampled on November 12, 1990 and December 10, 1990. The effluent from the remediation system was sampled during the November sampling event. Both the influent and the effluent were analyzed during the December sampling event. Samples of the effluent were obtained from a sampling port (hose bib) located after the point where the treatment systems for MW7 and MW8 are piped together. The influent samples were obtained from sampling ports located in the water lines prior to the point where the water passes through the carbon cannisters.

GROUNDWATER REMEDIATION SYSTEM FLOW RATE

The flow rate of the groundwater remediation system was measured on November 2 and November 5, 1990. The flow rate data was obtained by recording the time required for water from the remediation system to fill a container of known volume (see Table 1 in Section 4).

SECTION 3
CHEMICAL METHODS

CHEMICAL ANALYSIS OF GROUNDWATER

The water sample taken December 1990 from MW7 was analyzed for total petroleum hydrocarbons (TPH) by EPA Method 418.1, and was analyzed for total oil and grease by EPA Method 503A. Method 503A analyzes for both petroleum hydrocarbons and animal and vegetable fats.

The December 1990 water sample from MW8 was analyzed for TPH by Method 418.1 and for volatile organic compounds by EPA Method 624. Method 624 detects, along with other compounds, the presence of benzene and MIBK.

The effluent water samples taken in November and December 1990 were analyzed using Methods 624, 418.1, and 503A.

CAM METALS ANALYSIS

A water sample from MW1 was analyzed by L & W Environmental Services (L & W) according to their Environmental Site Assessment report to Mr. Robert Gates dated September 26, 1989. The sample was analyzed, along with other compounds, for the CAM Metals. L & W reported that "analytical results of CAM Metals indicated concentrations are well below the Soluble Threshold Limit Concentration (STLC) values" (page 23). The same report also stated that concentrations of lead (0.063 mg/l) and chromium (0.064 mg/l) in the water sample slightly exceeded the California Drinking Water Standards (0.05 mg/l). SCS was unable to find reference that any of the other on-site wells were analyzed for the CAM Metals.

SECTION 4

SUMMARY AND CONCLUSIONS

GROUNDWATER GRADIENT DIRECTION

The results of the well survey data are depicted in the following table. Note that the benchmark used was assigned an arbitrary elevation of 100 feet.

Table 1 - Well Survey Data
(measurements in feet)

Well I.D.	Casing Elevation	Depth to Water	Water Elevations
MW1	98.64	10.89	87.75
MW3	98.12	8.41	89.71
MW5	96.10	10.48	85.62
MW6	96.45	10.38	86.07
MW7	98.39	12.92	85.47
MW8	98.75	10.16	88.59

The data from the well survey was plotted on a site map and lines of equal elevation were drawn for the water table beneath the site. The direction of groundwater movement varies across the site. The report by L & W stated that the groundwater downgradient direction for the site was to the northwest. SCS concludes that further study is necessary to determine the direction of groundwater movement beneath the subject site. The proximity of the site to San Francisco Bay may cause the downgradient direction to vary over relatively small distances and also may cause variation of the groundwater gradient with time because of tidal fluxuations.

VAPOR EXTRACTION SYSTEM

The vapor system was run almost continuously from late July to late September. OVA readings of the influent dropped to 2 ppm, so the system was shut down to allow the buildup of contaminant vapors within the cylinder of influence of the extraction wells. The system was then operated intermittantly to the present. The level of vapor contamination as measured at the influent port (SP1) of the remediation system has not exceeded 10 ppm vapor since October 22, 1990. The vapor system has been largely successful.

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

Flow Rate - The average measured flow rate from the remediation system was 0.03 gallons per minute (gpm) in November 1990. At this rate, 43.2 gallons per day of water are discharged from the system to the ground. SCS judges that the landscaped area and underlying soil can absorb much more than 45 gallons of water each day without becoming saturated and without endangering the foundation of the buildings in the vicinity. This flow rate value is one tenth the value of the combined pumping rates obtained in the pump test.

Chemical Analysis of Groundwater - The table below shows the results of the last two analyses performed on water samples taken from MW7, MW8, and the remediation system effluent (sample REMEFF). Laboratory reports are located in Appendix B.

Table 2
(values in parts per million)

Sample I.D. (sampling date)	Method 418.1	Method 503A	Method 624
MW7 (12-10-90)	ND	2.0	-------
MW8 (12-10-90)	10.5	----	0.160 benzene 3.200 acetone 10.000 2-butanone 47.000 4-methyl 2-pentanone (MIBK) 130.000 4-methyl 2-pentanol
REMEFF (11-12-90)	ND	ND	ND
REMEFF (12-10-90)	0.6*	ND	ND

* detection limit = 0.5 ND = not detected

Comparison of the above table with Table 6 in Appendix A indicates change in the contamination levels found in MW7 and MW8. That comparison is made for certain compounds in the table below. Note that, in the cases where the same compounds are listed in the analyses, the values prior to the operation of the remediation system (values from Table 6, Appendix A) are significantly higher than the values detected after the remediation system has been in operation for about two months (Table 2). This data comparison indicates the groundwater remediation efforts are proceeding in a positive direction.

Table 3
(values in parts per million)

Sample I.D.	Pre-remediation	After 2 Month's Remediation
MW7 TPH (418.1)	.800	ND
MW8 TPH	103.000	10.500
MW8 benzene	2.100	.160
MW8 MIBK	160.000+	47.000

ND = not detected

SECTION 5
RECOMMENDATIONS

SCS recommends that additional sampling be done on the groundwater remediation system commencing in March 1991 and proceeding on a quarterly sampling schedule. The influent from MW7 and water from the sample port located after the first cannister in the MW7 cannister series should be sampled and the samples analyzed using EPA Methods 418.1 and 503A. The influent from MW8 and water from the sample port after the first cannister in the MW8 cannister series should be sampled and analyzed using EPA Methods 418.1 and 624. The effluent from the remediation system should be analyzed using Methods 418.1, 503A, and 624.

All of the six monitoring wells on-site, including MW7 and MW8, should be sampled and analyzed for CAM metals. SCS does not anticipate high values of metals in the water; however, such analysis is deemed necessary by Mr. Dennis Byrne of Alameda County Department of Health Services.

SCS recommends that the groundwater downgradient direction beneath the site be verified. After the March sampling event, the groundwater remediation system should be shut down for one week to allow the recharge of the aquifer so that a re-evaluation of the groundwater gradient direction beneath the site can be obtained. Depths to water in all of the wells can be obtained after the one week "rest period" is completed, and the results used to plot the groundwater downgradient direction beneath the site.

SCS recommends that, even though the vapor extraction system appears to have been successful, that system should remain in place until the site has been remediated successfully. The vapor system should be checked quarterly, at the time of the water sampling event. Should the air sampled from the influent port indicate a level higher than 10 ppm organic vapors, then the vapor system should be turned on until the influent values decrease below 5 ppm.

TABLE 1

Results of Soil Sample Analyses for Gasoline, Diesel, Oil and Grease

Sample I.D.	EPA 8015 gasoline	EPA 8015 diesel	EPA 503D oil and grease
	--mg/kg (parts per million)--		
MW7-1	ND	ND	9,000
MW7-2	ND	788	8,800
MW8-1	ND	ND	2,000
MW8-2	ND	ND	20,000
B9-1	ND	ND	23,000
B9-2	ND	5,050	15,000
B10-1	ND	380	9,500
B10-2	ND	ND	6,300
B11-1	ND	ND	45,000
B11-2	ND	ND	30,400
B12-1	ND	ND	12,000
B12-2	ND	ND	38,800
B13-1	ND	ND	9,400
B13-2	ND	ND	3,000
Sump	ND	ND	10,500

ND = not detected

Detection Limit for EPA Method 8015 = 10 ppm

TABLE 2

Results of Soil Sample Analyses for EPA Method 8080
Organochlorine Pesticides and PCBs

Sample I.D.	Compound	Results	Detection Limit
		mg/kg (ppm)	
MW7-1	----	ND	----
MW7-2	----	ND	----
MW8-1	----	ND	----
MW8-2	PCB-1260	2.3	1.0
B9-1	----	ND	----
B9-2	----	ND	----
B10-1	----	ND	----
B10-2	----	ND	----
B11-1	PCB-1260	2.2	1.0
B11-2	----	ND	----
B12-1	----	ND	----
B12-2	----	ND	----
B13-1	PCB-1260	3.1	1.0
B13-2	----	ND	----
Sump	PCB-1260	4.2	1.0

ND = not detected

TABLE 3

Results of Soil Sample Analyses for CAM Metals

	antimony (10)	arsenic (16)	barium (0.1)	beryllium (0.02)	cadmium (0.7)	chromium (0.5)	cobalt (2)	copper (0.2)
				---mg/kg (ppm)---				
MW7-1	ND	ND	140	0.48	ND	32	8.6	27
MW7-2	ND	ND	24	0.13	ND	21	ND	3.6
MW8-1	ND	ND	42	0.16	ND	27	2.8	18
MW8-2	ND	ND	85	0.15	ND	9.6	ND	41
B9-1	ND	ND	140	0.41	ND	33	7.4	55
B9-2	ND	ND	610	0.31	44	180	15	2300
B10-1	ND	ND	33	0.05	ND	23	ND	39
B10-2	ND	21	590	0.33	1.3	34	6.9	140
B11-1	ND	ND	240	0.36	1.0	22	5.4	44
B11-2	ND	ND	160	0.31	ND	21	3.6	>4500
B12-1	ND	ND	89	0.23	ND	36	3.4	170
B12-2	ND	38	540	0.26	7.7	190	28	2200
B13-1	ND	ND	160	0.36	ND	62	6.5	120
B13-2	ND	ND	37	0.15	ND	29	2.9	4.9
Sump	ND	ND	180	0.48	ND	95	10	49

ND=not detected
d.l.=detection limit (ppm)

TABLE 3 (Continued)

	lead (12)	mercury (0.009)	molyb-benum (1.0)	nickel (1.0)	selenium (0.2)	silver (0.4)	thallium (10)	vana-dium (0.3)	zinc (0.4)
	---mg/kg (ppm)---								
MW7-1	ND	ND	ND	28	ND	ND	ND	36	79
MW7-2	ND	0.088	ND	16	ND	ND	ND	12	310
MW8-1	ND	ND	ND	18	ND	ND	ND	15	75
MW8-2	24	0.36	ND	6.8	ND	ND	ND	8.5	120
B9-1	41	0.45	ND	32	ND	ND	ND	31	120
B9-2	980	0.66	27	350	ND	ND	ND	26	6200
B10-1	42	0.10	ND	10	ND	ND	ND	5	95
B10-2	1500	0.62	ND	24	ND	ND	ND	28	410
B11-1	72	0.092	ND	25	ND	ND	ND	21	940
B11-2	55	0.12	ND	24	ND	ND	ND	17	160
B12-1	120	ND	ND	29	ND	ND	ND	21	150
B12-2	3000	ND	20	110	ND	ND	ND	23	3600
B13-1	520	ND	ND	42	ND	ND	ND	27	300
B13-2	12	ND	ND	18	ND	ND	ND	15	210
Sump	62	0.022	ND	135	ND	ND	ND	39	150

ND=not detected
d.l.=detection limit (ppm)

TABLE 4.

Results of Soil Sample Analyses for EPA Method 8240 Volatile Organics

Sample ID	Compound	Results	detection limit
MW7-1	- - - -	ND	- - -
MW7-2	ethylbenzene	0.25	- - -
	toluene	0.061	0.010
	m- and p-xylenes	0.56	0.010
	o-xylene	0.46	0.010
MW8-1	- - - -	ND	- - -
MW8-2	methyl isobutyl ketone	8.3	0.30
B9-1	toluene	0.012	0.010
B9-2	benzene	0.054	0.010
	ethylbenzene	0.140	0.010
	toluene	0.026	0.010
	m- and p-xylenes	0.250	0.010
	o-xylene	0.130	0.010
B10-1	m- and p-xylenes	0.043	0.010
B10-2	- - - -	ND	- - -
B11-1	toluene	0.015	0.010
B11-2	- - - -	ND	- - -
B12-1	- - - -	ND	- - -
B12-2	- - - -	ND	- - -
B13-1	- - - -	ND	- - -
B13-2	- - - -	ND	- - -
Sump	- - - -	ND	- - -

ND = not detected

TABLE 6.

Results of Water Sample Analyses

Sample ID	EPA 8015 modified	EPA 418.1	EPA 624	EPA 625
	---mg/l---		---mg/l---	
MW1-1W	ND	0.5*	ND	ND
MW3-1W	ND	0.6*	ND	ND
MW5-1W	ND	0.7*	benzene 0.012**	ND
MW6-1W	ND	1.2*	ND	ND
MW7-1W	ND	0.8*	ND	ND
MW8-1W	ND	103.0*	see table below	ND

ND=not detected
* detection limit 0.5 ppm
** detection limit 0.005 ppm

MW8-1W EPA 624 ANALYSIS RESULTS

concentrations in parts per million (mg/kg)

benzene	2.100

Tentatively Identified Compounds - Approximate Concentrations

MIBK	>160.000
Ethyl Acetate	>20.000
Butyl Acetate	5.800
Propyl Acetate	>32.000
Propyl Ester of Proponoic Acid	2.500
Ethyl Butyl Ether	>12.000
C6 Alcohol	34.000

TABLE 5

Results of Soil Sample Analyses for EPA Method 8270 Semi-Volatile Organics

Sample ID	Compound	Results mg/kg (ppm)	Detection Limit
MW7-1	- - - -	ND	- - -
MW7-2	chrysene	0.39	0.30
	fluoranthene	0.32	0.30
	2-methylnaphthalene	1.5	0.30
	naphthalene	7.5	0.30
	phenanthrene	0.53	0.30
	pyrene	0.36	0.30
MW8-1	- - - -	ND	- - -
MW8-2	pyrene	0.41	0.30
B9-1	chrysene	0.39	0.30
B9-2	chrysene	0.63	0.30
	fluoranthene	0.34	0.30
	2-methylnaphthalene	1.10	0.30
	naphthalene	6.80	0.30
	phenanthrene	0.59	0.30
	pyrene	0.55	0.30
B10-1	- - - -	ND	- - -
B10-2	- - - -	ND	- - -
B11-1	pyrene	0.32	0.30
B11-2	benzo (a) anthracene	0.58	0.30
	chrysene	0.82	0.30
	fluoranthene	1.10	0.30
	phenanthrene	0.56	0.30
	pyrene	1.80	0.30
B12-1	pyrene	0.37	0.30
B12-2	- - - -	ND	- - -
B13-1	benzo (a) pyrene	0.47	0.30
	chrysene	0.39	0.30
	pyrene	0.32	0.30
B13-2	- - - -	ND	- - -
Sump	- - - -	ND	- - -

ND = not detected

NOV 21 1990

SCS ANALYTICAL LABORATORY
2660 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

MEMO

To: Don McClenagen

From: Lam V. Ho

November 16, 1990

Job Number: 0389058.00

LABORATORY REPORT

Sample: Two (2) water samples fromMRCP effluent, MW1 and MW8 remediation system.Received 11/13/90 and analyzed 11/15/90.

Sample ID	418.1	503A
	mg/L	
REMEFF	ND	ND
Detection Limit	0.5	0.5

ND - Not Detected

Loree Kenyon
Chemist

Lam V. Ho PhD, REP
Laboratory Director

MRCP6.rep

NOV 28 1990

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

MEMO

To: Don McClenagan

From: Lam V. Ho

November 26, 1990

Job Number: 0389058.00

LABORATORY REPORT

Sample: Two (2) water samples from MRCP effluent, MW7 and MW8 remediation system. Received 11/13/90 and analyzed 11/19/90. One (1) sample archived.

EPA 624 - see attached page

Loree Kenyon
Chemist

Lam V. Ho PhD, REP
Laboratory Director

MRCP7.rep

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: REMEFF
Date Received: 11/13/90
Date Analyzed: 11/19/90
Matrix: Water
Project #: 0389058.00
File #: mrcp7.rep

CAS #	Compound	Result	D.L.
		-----ug/L(ppb)-----	
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	30
56-23-5	Carbon Tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	30
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethylbenzene	ND	5
75-09-2	Methylene Chloride	ND	50
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
108-88-3	Toluene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
79-01-6	Trichloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	5
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	5
95-47-6	o-Xylene	ND	5

D.L. = Detection Limit
ND = Not Detected

CHAIN OF CUSTODY RECORD

469

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324

PERSONNEL

Sampler (Signature) Candia M. Cowan Nov 12, 1990
Phone 415-829-0661
Field Crew Supervisor
Field Company
Project Geologist/Engineer Don McClenagan

SITE INFORMATION

Job Name MRCP
Job Number 0389058.00
Sample Location Effluent, MW7 & MW8 REMEDIATION SYSTEM
P.O. Number

Relinquished by (Signature)	Received by (Signature)	Date	Time
Candia M. Cowan Nov 12	Nancy Kobel	12/13/90	10:45 AM
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
~~EFF~~ REMEFF	VOA	2	MRCP ~~Effluent~~	11/12	624	cold

Remarks: Normal 10 day turn Around - Thanks

CHAIN OF CUSTODY RECORD

468

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324

PERSONNEL

SITE INFORMATION

Nov 12, 1990

Sampler (Signature) Candice M. Cowan

Phone 415-829-0661

Job Name MRCP

Job Number 0389058.00

Sample Location Effluent, MW1 & MW8 Remediation System

Field Crew Supervisor

Field Company

Project Geologist/Engineer Don McClenagen

P.O. Number

Relinquished by (Signature)	Received by (Signature)	Date	Time
Candice M. Cowan Nov 12			
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
REMEFF	H_2O	1	MRCP	11/12	418.1	
REMEFF	H_2O	1	MRCP	11/12	503A	

Remarks:

JAN 2 1991

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

MEMO

To: Don McClenagan

From: Lam V. Ho

December 24, 1990

Job Number: 0389058.00

LABORATORY REPORT

Sample: Five (5) water samples from MRCP, MW7 and MW8, received 12/11/90 and analyzed 12/21/90. One (1) sample was received broken.

Sample ID	EPA 418.1	SM 503A
	mg/L	
MW7	ND	2.0
MW8	10.5	-------
Detection Limit	0.5	0.5

ND - Not Detected

EPA 624 - see attached page

Loree Kenyon
Chemist

Lam V. Ho PhD, REP
Laboratory Director

mrcp8.rep

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8
Date Received: 12/11/90
Date Analyzed: 12/21/90
Matrix: Water
Project #: 0389058.00
File #: mrcp8.rep

CAS #	Compound	Result	D.L.
		-----ug/L(ppb)-----	
71-43-2	Benzene	160	25
75-27-4	Bromodichloromethane	ND	25
75-25-2	Bromoform	ND	25
74-83-9	Bromomethane	ND	150
56-23-5	Carbon Tetrachloride	ND	25
108-90-7	Chlorobenzene	ND	25
75-00-3	Chloroethane	ND	150
110-75-8	2-Chloroethyl Vinyl Ether	ND	250
67-66-3	Chloroform	ND	25
74-87-3	Chloromethane	ND	150
124-48-1	Dibromochloromethane	ND	25
95-50-1	1,2-Dichlorobenzene	ND	25
541-73-1	1,3-Dichlorobenzene	ND	25
106-46-7	1,4-Dichlorobenzene	ND	25
75-34-3	1,1-Dichloroethane	ND	25
107-06-2	1,2-Dichloroethane	ND	25
75-35-4	1,1-Dichloroethene	ND	25
156-60-5	trans-1,2-Dichloroethene	ND	25
78-87-5	1,2-Dichloropropane	ND	25
10061-01-5	cis-1,3-Dichloropropene	ND	25
10061-02-6	trans-1,3-Dichloropropene	ND	25
100-41-4	Ethylbenzene	ND	25
75-09-2	Methylene Chloride	ND	250
79-34-5	1,1,2,2-Tetrachloroethane	ND	25
127-18-4	Tetrachloroethene	ND	25
108-88-3	Toluene	ND	25
71-55-6	1,1,1-Trichloroethane	ND	25
79-00-5	1,1,2-Trichloroethane	ND	25
79-01-6	Trichloroethene	ND	25
75-69-4	Trichlorofluoromethane	ND	25
75-01-4	Vinyl Chloride	ND	150
1330-20-7	m- and p-Xylenes	ND	25
95-47-6	o-Xylene	ND	25

D.L. = Detection Limit
ND = Not Detected

SCS
ANALYTICAL
LABORATORY

2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: MW8
Date Received: 12/11/90
Date Analyzed: 12/21/90
Matrix: Water
Project #: 0389058.00
File #: mrcp8.rep

TENTATIVELY IDENTIFIED COMPOUNDS

COMPOUND NAME	APPROXIMATE CONCENTRATION
Acetone	3,200 ug/L
2-Butanone	10,000 ug/L
4-Methyl-2-Pentanone	47,000 ug/L
4-Methyl-2-Pentanol	130,000 ug/L

DEC 28 1990

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

MEMO

To: Don McClenagan

From: Lam V. Ho

December 24, 1990

Job Number: 0389058.00

LABORATORY REPORT

Sample: Four (4) water samples from MRCP, effluent from remediation system MW7 and MW8, received 12/11/90 and analyzed 12/21/90. One (1) sample to be archived and the remainder to be analyzed.

Sample ID	EPA 418.1	SM 503A
	mg/L	
REMEFF	0.6	ND
Detection Limit	0.5	0.5

ND - Not Detected

EPA 624 - see attached page

Loree Kenyon
Loree Kenyon
Chemist

Lam V. Ho
Lam V. Ho PhD, REP
Laboratory Director

MRCP9.rep

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Sample I.D.: REMEFF
Date Received: 12/11/90
Date Analyzed: 12/21/90
Matrix: Water
Project #: 0389058.00
File #: mrcp9.rep

CAS #	Compound	Result	D.L.
		-----ug/L(ppb)-----	
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	30
56-23-5	Carbon Tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	30
110-75-8	2-Chloroethyl Vinyl Ether	ND	50
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	30
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethylbenzene	ND	5
75-09-2	Methylene Chloride	ND	50
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
108-88-3	Toluene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
79-01-6	Trichloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	5
75-01-4	Vinyl Chloride	ND	30
1330-20-7	m- and p-Xylenes	ND	5
95-47-6	o-Xylene	ND	5

D.L. = Detection Limit
ND = Not Detected

CHAIN OF CUSTODY RECORD

~~475~~ 475

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324

PERSONNEL

Sampler (Signature) Don McClenaghan
Phone 415 829 0661
Field Crew Supervisor Don Mc
Field Company
Project Geologist/Engineer J. Cummings

SITE INFORMATION

Job Name MRCP
Job Number 0389058.00
Sample Location MW7 & MW8
P.O. Number

Relinquished by (Signature)	Received by (Signature)	Date	Time
Don McClenaghan 12-10-90	Nancy Abel	12-11-90	9:30 Am
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
MW7	water	1	MRCP	12-10-90	418.1	cold
MW7	"	1	"	"	503A	
MW8	"	1	"	"	418.1	
MW8	"	2	"	"	624	1-was broken

Remarks: BEWARE!! MW8 concentrations of MIBK and probably > 186,000 ppb.

CHAIN OF CUSTODY RECORD

474

SCS ANALYTICAL LABORATORY
2860 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324

PERSONNEL

Sampler (Signature) Don McElmayan
Phone 415 829 0661
Field Crew Supervisor Don Mc
Field Company
Project Geologist/Engineer J. Cummings

SITE INFORMATION

Job Name MRCP
Job Number 0389058.00
Sample Location Effluent from remediation system MW7 & MW8
P.O. Number

Relinquished by (Signature)	Received by (Signature)	Date	Time
Don McElmayan 12-10-90	Nancy Hotel	12-11-90	10:00 AM
Relinquished by (Signature)	Received by (Signature)	Date	Time

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

Sample Number	Sample Type	No. of Cont.	Site Identification	Date Sampled	Analysis Requested	Sample Cond. Upon Receipt
REMEFF	water	1	MRCP	12-10	418.1	cld
REMEFF	"	1	"	"	503A	↓
REMEFF	"	2	"	"	624	↓

Remarks:

R. William Rudolph, Jr., PE
Thomas E. Cundey, PE
Jeriann N. Alexander, PE

1/23/95 Talked to Bill Rudolf (SCI) workplan addendum is acceptable; addresses the issues of approval. 1/30/95 SHugo

January 17, 1995
SCI 820.001

Ms. Susan Hugo
Alameda County Health Care Services Agency
Division of Hazardous Materials
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94501

Addendum No. 1
Work Plan and Revised Request for "No Further Action"
Alternate Compliance Points Monitoring Program
6707 Bay Street
MIBK Tank Area
Emeryville, California

Dear Ms. Hugo:

This letter presents Addendum No. 1 to the Work Plan and Revised Request For "No Further Action" dated October 18, 1994 for the referenced site. Subsurface Consultants, Inc. (SCI) prepared this addendum in response to your letter dated December 30, 1994 and our recent telephone conversation. The work plan should be amended as follows:

1. If site conditions indicate a trend of increasing contaminant levels or that the plume is migrating off-site, SCI will recommend appropriate mitigation measures.

2. A copy of the recorded deed notice will be submitted to the Alameda County Health Care Services Agency (ACHCSA) and the City of Emeryville Planning and Building Department. This issue is being addressed by Mr. Brian Berger of Pettit and Martin.

Subsurface Consultants, Inc.
820001r.ltr
171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 510-268-0461 • FAX 510-268-0137

3. Consistent with the sampling interval presented in the work plan, groundwater monitoring events will be conducted in February 1995, May 1995, and November 1995 and May 1996.

4. SCI will coordinate the sampling date and tie-in groundwater levels with the neighboring site located at 1650 65th Street. In this regard, we have contracted Mr. Andrew Briefer of PES Environmental, the consultant for 1650 65th Street. PES will be conducting a groundwater monitoring event in early February 1995. SCI will coordinate the next sampling event at 6707 Bay Street with PES and obtain groundwater level measurements at both sites. Groundwater level data from both sites will be combined to develop a potentiometric map for the area.

5. Appropriate quantitation reporting limits for target compounds will be used. Any inconsistencies in the detection limits will be identified and explained in the monitoring reports.

6. SCI will notify you at least 72 hours prior to each sampling event.

7. Monitoring reports will be submitted to the Alameda County Health Care Services Agency within 30 days of each sampling event, consistent with the schedule outlined in item 3.

It is our understanding that 1) submission of this addendum satisfies all conditions you have specified for the approval of the work plan and 2) completion of the work plan and demonstration that contaminant levels are within the guidelines specified therein will lead to ACHCSA and RWQCB approval of a "no further action status" for the site.

If you have any questions regarding this addendum, please call.

Yours very truly,

Subsurface Consultants, Inc.

R. William Rudolph
Geotechnical Engineer 741 (expires 12/31/96)

RWR:sld

cc: Sumaden Arigular - RWQCB
Brian Berger - Pettit and Martin
James J. McClay, III - MRCP Realty, c/o Scenic Arts
John Nady - Nady Systems

James P. Bowers, PE
R. William Rudolph, Jr., PE

June 14, 1993
SCI 820.001

Mr. Brian Oliva
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Quarterly Groundwater Monitoring and Treatment System Decommissioning
6707 Bay Street
Emeryville, California

Dear Mr. Oliva:

This letter records the results of a groundwater monitoring event and treatment system decommissioning performed by Subsurface Consultants, Inc. (SCI) at the referenced site in May 1993. Three underground tanks used to store methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Soil and groundwater adjacent to the previous tanks were shown, through studies by others, to have been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation till early 1991. Since 1991, no remediation has been performed. Treatment system and monitoring well locations are shown on the attached Site Plan, Plate 1.

Quarterly Monitoring Event

In accordance with the workplan dated April 22, 1993, groundwater monitoring has been implemented at the site. During our site reconnaissance, we were able to locate four existing wells. Initially, groundwater levels in these wells were measured. The groundwater level measurements are presented in Table 1. Groundwater surface contours are shown on Plate 1.

For this event, Wells 1, 3 and 8 were sampled. Prior to sampling, these wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 4 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

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After the wells had recharged to within 80 percent of the initial volume they were sampled using a pre-cleaned sampling device. The water samples were retained in precleaned containers, placed in an iced cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the test performed. The samples were analytically tested for the following:

1. Volatile organic chemicals - EPA 8240, and

2. Oil & grease - SMWW 17:5520 E&F

A summary of the current and previous analytical test results are presented in Table 2. Analytical test reports and Chain-of-Custody documents are attached.

Treatment System Decommissioning

In accordance with the workplan, the surface piping and four soil vapor wells were removed. The surface piping was disconnected and stockpiled on-site. The vapor wells were abandoned by pulling out the 2-inch PVC well casing, over drilling the wells with hollow stem augers and backfilling the borings with cement grout. The PVC piping was disposed of at an appropriate landfill.

Conclusions

The groundwater level data indicates that the groundwater flow direction is toward the northwest at a gradient of approximately 2 percent. The flow direction is consistent with past studies by others. Groundwater contours for the May 1993 event are presented on Plate 1.

Methyl isobutyl ketone, MIBK (4-methyl-2 pentanone) was detected in Well 8 at a concentration of 100,000 ug/l. No other volatile organic chemicals (EPA 8240) nor oil and grease were detected at concentrations in excess of the analytical detection limits in the wells being monitored. For this reason, it appears that the MIBK contaminant plume is limited to the area immediately adjacent to the previous tanks.

If you have any questions, please call.

Yours very truly,

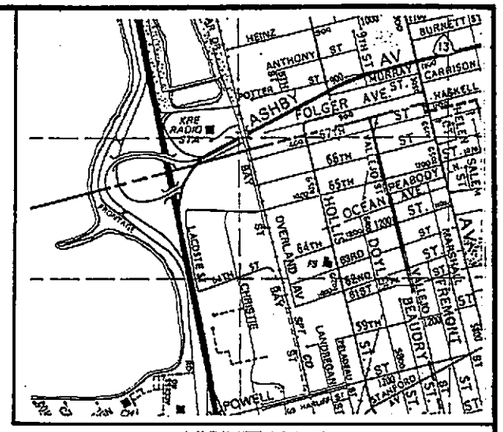
Subsurface Consultants, Inc.

R. William Rudolph

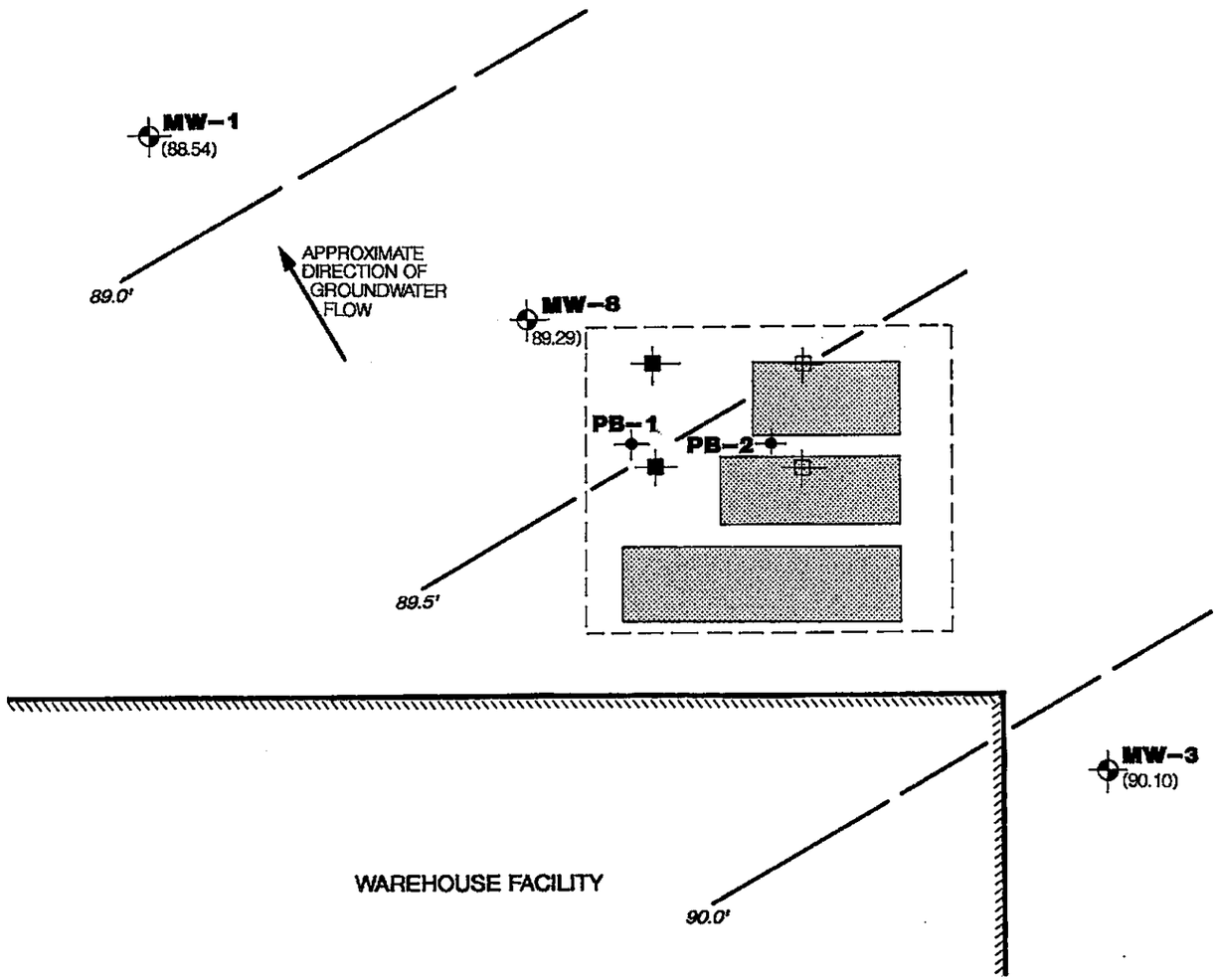
R. William Rudolph
Geotechnical Engineer 741 (expires 12/31/96)

MK:RWR:egh

Attachments: Plate 1 - Site Plan
Table 1 - Groundwater Elevation Data
Table 2 - Contaminant Concentrations in Groundwater
Chain-of-Custody Records
Analytical Test Reports



VICINITY MAP



- MONITORING WELL
- TEST BORING
- VAPOR EXTRACTION WELL
- PASSIVE VAPOR RECHARGE WELL
- APPROXIMATE LOCATION OF PREVIOUS UNDERGROUND STORAGE TANK
- APPROXIMATE EXTENT OF TANK EXCAVATION
- PROPERTY LINE
- GROUNDWATER ELEVATION CONTOURS (feet)
- (89.10) GROUNDWATER ELEVATION (feet)

N

APPROXIMATE SCALE (feet)

0 10 20

SITE PLAN

Subsurface Consultants

6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	6/14/93	

PLATE 1

Table 1.
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to groundwater (feet)	Groundwater Elevation (feet)
MW-1	05/20/93	99.99	10.25	89.74
	06/04/93		11.45	88.54
MW-3	05/20/93	99.46	8.55	90.91
	06/04/93		9.36	90.10
MW-7	06/04/93	99.74	12.67	87.07
MW-8	05/20/93	100.10	9.55	90.55
	06/04/93		10.81	89.29

[1] Elevation reference: Building corner is assumed to be at elevation 100.00 feet

Table 2
Contaminant Concentrations in Groundwater

Well	Date	Oil & Grease (mg/l)[1]	4-Methyl-2 Pentanone (ug/l)[2]	Vinyl Chloride (ug/l)	Acetone (ug/l)	2-Butanone (ug/l)	4-Methyl-2 Pentanol (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Bis (2-Ethyl Hexyl) Phthalate (ug/l)	Other Organic Chemicals (ug/l)
MW1	07/06/89	--[3]	NR[4]	<0.3	NR	NR	NR	<0.3	<0.3	--[4]	ND[5]
	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	40	ND
	01/10/90	--	NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91	--	<10	<10	<20	<20	NR	7	8	--	ND
	05/20/93	**<5**	**<10**	**<10**	**<20**	**<10**	**NR**	**<5**	**<5**	**--**	**ND**
MW3	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	80	ND
	01/10/90	--	NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91	--	<10	<10	<20	<20	40	<5	<5	--	ND
	05/20/93	**<5**	**<10**	**<10**	**<20**	**<10**	**NR**	**<5**	**<5**	**--**	**ND**
MW8	01/10/90	--	160,000	<6,000	NR	NR	NR	2,100	<1,000	<100	ND
	12/10/90	--	47,000	<150	3,200	10,000	130,000	160	<25	--	ND
	09/05/91	--	150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000	--	ND
	05/20/93	**<5**	**100,000**	**<5,000**	**<10,000**	**<5,000**	**NR**	**<3,000**	**<3,000**	**--**	**ND**

1 Milligrams per liter
2 Micrograms per liter
3 Test not requested
4 Not reported
5 Not detected above reporting limits

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

DATE RECEIVED: 05/20/93
DATE REPORTED: 05/26/93

LABORATORY NUMBER: 110974

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 820.001

LOCATION: 6707 BAY ST

RESULTS: SEE ATTACHED

Reviewed by

Reviewed by

This report may be reproduced only in its entirety.

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 110974

Project Name: 6707 Bay St.
Project Number: 820.001

Report Date: 26 May 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520BF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
110974-002	MW 3	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	9343
110974-003	MW 1	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	9343
110974-004	MW 8	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	9343

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

Q C B a t c h R e p o r t

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 110974
Report Date: 26 May 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 9343**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	25-MAY-93

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	88%	SMWW 17:5520BF	25-MAY-93
BSD	85%	SMWW 17:5520BF	25-MAY-93

		Control Limits
Average Spike Recovery	86%	80% - 120%
Relative Percent Difference	3.5%	< 20%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-2
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST
SAMPLE ID: MW 3

DATE SAMPLED: 05/20/93
DATE RECEIVED: 05/20/93
DATE ANALYZED: 05/25/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	111 %
Toluene-d8	98 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-3
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST
SAMPLE ID: MW 1

DATE SAMPLED: 05/20/93
DATE RECEIVED: 05/20/93
DATE ANALYZED: 05/25/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	110 %
Toluene-d8	99 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-4
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST
SAMPLE ID: MW 8

DATE SAMPLED: 05/20/93
DATE RECEIVED: 05/20/93
DATE ANALYZED: 05/24/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	5,000
Bromomethane	ND	5,000
Vinyl chloride	ND	5,000
Chloroethane	ND	5,000
Methylene chloride	ND	10,000
Acetone	ND	10,000
Carbon disulfide	ND	3,000
Trichlorofluoromethane	ND	3,000
1,1-Dichloroethene	ND	3,000
1,1-Dichloroethane	ND	3,000
cis-1,2-Dichloroethene	ND	3,000
trans-1,2-Dichloroethene	ND	3,000
Chloroform	ND	3,000
Freon 113	ND	3,000
1,2-Dichloroethane	ND	3,000
2-Butanone	ND	5,000
1,1,1-Trichloroethane	ND	3,000
Carbon tetrachloride	ND	3,000
Vinyl acetate	ND	5,000
Bromodichloromethane	ND	3,000
1,2-Dichloropropane	ND	3,000
cis-1,3-Dichloropropene	ND	3,000
Trichloroethene	ND	3,000
Dibromochloromethane	ND	3,000
1,1,2-Trichloroethane	ND	3,000
Benzene	ND	3,000
trans-1,3-Dichloropropene	ND	3,000
Bromoform	ND	3,000
2-Hexanone	ND	5,000
4-Methyl-2-pentanone	**100,000**	**5,000**
1,1,2,2-Tetrachloroethane	ND	3,000
Tetrachloroethene	ND	3,000
Toluene	ND	3,000
Chlorobenzene	ND	3,000
Ethyl benzene	ND	3,000
Styrene	ND	3,000
Total xylenes	ND	3,000

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	105 %
Toluene-d8	98 %
Bromofluorobenzene	95 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST

DATE ANALYZED: 05/24/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	105 %
Toluene-d8	97 %
Bromofluorobenzene	91 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST

DATE ANALYZED: 05/25/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	113 %
Toluene-d8	99 %
Bromofluorobenzene	98 %

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

PROJECT NAME: 6707 BAY STREET

JOB NUMBER: 820.001 LAB: CURTIS TOMPKINS

PROJECT CONTACT: MARK KAWAKAMI TURNAROUND: NORMAL

SAMPLED BY: REQUESTED BY: MARK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX					CONTAINERS					METHOD PRESERVED					SAMPLING DATE				NOTES	ANALYSIS REQUESTED										
		WATER	SOIL	WASTE	AIR	CARBON	VOA	LITER	PINT	TUBE	GLASS	HCL	H_2SO_4	HNO_3	ICE	NONE	MONTH	DAY	YEAR	TIME		8240	TITLE 16 METALS	D&G	PH							
	C-1					X					X				X		05	28	93			X			X							
	C-2					X					X				X		05	28	93			X	X	X	X							

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature] 5/28/93 3:20		[signature]	5/28/93 3:2[illegible]

COMMENTS & NOTES:

ADD METHYL ETHYL KETONE AND METHYL ISOBUTYL KETONE TO 8240 ANALYSIS

Subsurface Consultants, Inc.

171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607

(510) 268-0461 • FAX: 510-268-0137

Curtis & Tompkins, Ltd.

QC SUMMARY SHEET FOR EPA 8240

Laboratory Number: 110974
Client: Subsurface Consultants
Analysis date: 05/25/93
Sample type: Water
Spike file: ceo21
Spike dup file: ceo22

SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	50.76	102 %	OK	61 - 145
Trichloroethene	49.41	99 %	OK	71 - 120
Benzene	52.37	105 %	OK	76 - 127
Toluene	50.47	101 %	OK	76 - 125
Chlorobenzene	51.20	102 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	53.28	107 %	OK	76 - 114
Toluene-d8	49.26	99 %	OK	88 - 110
Bromofluorobenzene	48.66	97 %	OK	86 - 115

SPIKE DUP DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	47.01	94 %	OK	61 - 145
Trichloroethene	47.96	96 %	OK	71 - 120
Benzene	50.19	100 %	OK	76 - 127
Toluene	50.02	100 %	OK	76 - 125
Chlorobenzene	50.90	102 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	53.20	106 %	OK	76 - 114
Toluene-d8	49.70	99 %	OK	88 - 110
Bromofluorobenzene	50.19	100 %	OK	86 - 115

MATRIX RESULTS	
1,1-Dichloroethene	0
Trichloroethene	0
Benzene	0
Toluene	0
Chlorobenzene	0

RPD DATA

SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	50.76	47.01	8 %	OK	< 14
Trichloroethene	49.41	47.96	3 %	OK	< 14
Benzene	52.37	50.19	4 %	OK	< 11
Toluene	50.47	50.02	1 %	OK	< 13
Chlorobenzene	51.20	50.90	1 %	OK	< 13

James P. Bowers, PE
R. William Rudolph, Jr., PE

1993

93 SEP 16 PM 12:20

September 15, 1993
SCI 820.001

Mr. Brian Oliva
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Quarterly Groundwater Monitoring
August 1993
6707 Bay Street
Emeryville, California

Dear Mr. Oliva:

This letter records the results of a groundwater monitoring event performed by Subsurface Consultants, Inc. (SCI) at the referenced site in August 1993.

Three underground tanks used to store methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Soil and groundwater adjacent to the previous tanks were shown, through studies by others, to have been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation till early 1991. Since 1991, no additional remediation has been performed. Treatment system and monitoring well locations are shown on the Attached Site Plan, Plate 1.

Initially, groundwater levels in the four wells were measured. The groundwater level measurements are presented in Table 1. Groundwater surface contours for the August 1993 event are shown on Plate 1.

For this event, Wells 1, 3 and 8 were sampled. Prior to sampling, these wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 4 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

■ Subsurface Consultants, Inc.

171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 510-268-0461 • FAX 510-268-0137

After the wells had recharged to within 80 percent of the initial volume they were sampled using a pre-cleaned sampling device. The water samples were retained in pre-cleaned containers, placed in an iced cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the test performed. The samples were analytically tested for the following.

1. Volatile organic chemicals - EPA 8240, and
2. Oil & grease - SMWW 17:5520 E&F

A summary of the current and previous analytical test results are presented in Table 2. Analytical test reports and Chain-of-Custody documents are attached.

Conclusions

The groundwater level data indicate that groundwater flow direction is toward the northwest at a gradient of approximately 2 percent. This flow direction and gradient remain consistent with previous measurements.

Methyl isobutyl ketone, MIBK (4-methyl-2 pentanone) was detected in Well 8 at a concentration of 48,000 ug/l. No other volatile organic chemicals (EPA 8240) nor oil and grease were detected at concentrations in excess of the analytical detection limits in the wells being monitored. For this reason, it appears that the MIBK contaminant plume is limited to an area immediately adjacent to the previous tanks.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

R. William Rudolph
Geotechnical Engineer 741 (expires 12/31/96)

MK:RWR:sld

Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Contaminant Concentrations in Groundwater
Plate 1 - Site Plan
Chain-of-Custody Records
Analytical Test Reports

Table 1.
Groundwater Elevation Data

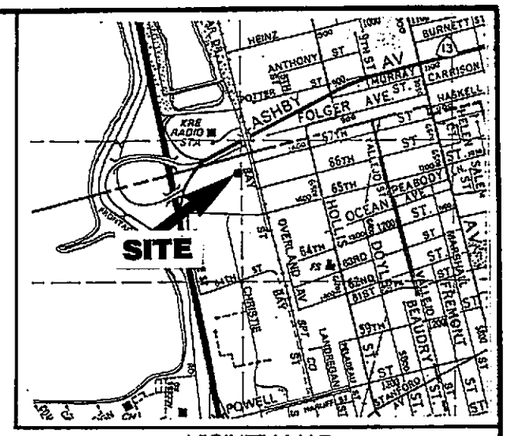
Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW-1	05/20/93	99.99	10.25	89.74
	06/04/93		11.45	88.54
	08/25/93		11.20	88.79
MW-3	05/20/93	99.46	8.55	90.91
	06/04/93		9.36	90.10
	08/25/93		9.42	90.04
MW-7	06/04/93	99.74	12.67	87.07
	08/25/93		12.44	87.30
MW-8	05/20/93	100.10	9.55	90.55
	06/04/93		10.81	89.29
	08/25/93		10.93	89.17

[1] Elevation reference: Building corner is assumed to be at elevation 100.00 feet

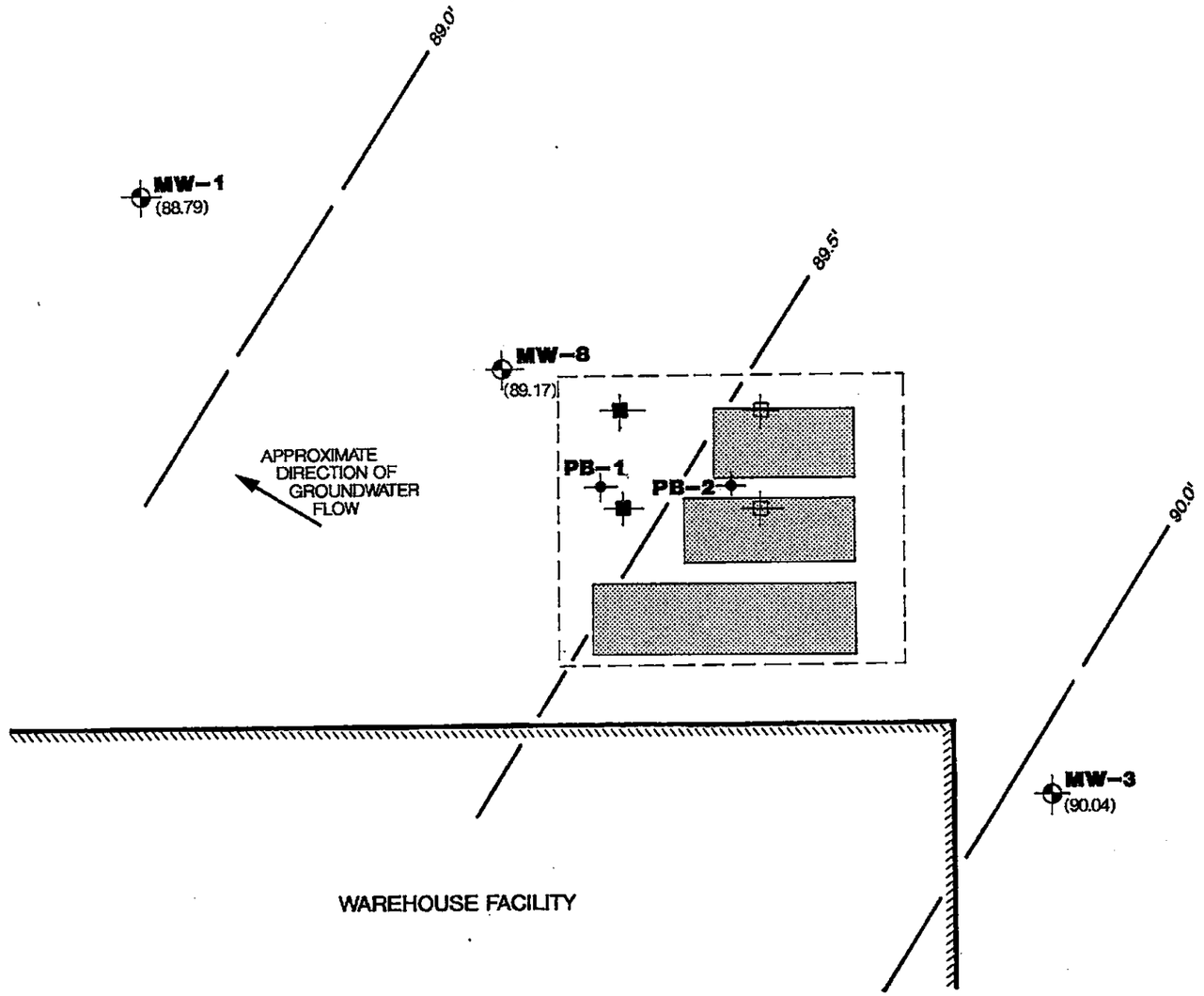
Table 2.
Contaminant Concentrations in Groundwater

Well	Date	Oil & Grease (mg/l)[1]	4-Methyl-2 Pentanone (ug/l)[2]	Vinyl Chloride (ug/l)	Acetone (ug/l)	2-Butanone (ug/l)	4-Methyl-2 Pentanol (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Bis (2-Ethyl Hexyl) Phthalate (ug/l)	Other Organic Chemicals (ug/l)
MW1	07/06/89	--[3]	NR[4]	<0.3	NR	NR	NR	<0.3	<0.3	--[4]	ND[5]
	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	40	ND
	01/10/90	--	NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91	--	<10	<10	<20	<20	NR	7	8	--	ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	08/25/93	**<5**	**<10**	**<10**	**<20**	**<10**	**NR**	**<5**	**<5**	**--**	**ND**
MW3	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	80	ND
	01/10/90	--	NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91	--	<10	<10	<20	<20	NR	<5	<5	--	ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	08/25/93	**<5**	**<10**	**<10**	**<20**	**<10**	**NR**	**<5**	**<5**	**--**	**ND**
MW8	01/10/90	--	160,000	<6,000	NR	NR	NR	2,100	<1,000	<100	ND
	12/10/90	--	47,000[6]	<150	3,200[6]	10,000[6]	130,000[6]	160	<25	--	ND
	09/05/91	--	150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000	--	ND
	05/20/93	<5	100,000	<5,000	<10,000	<5,000	NR	<3,000	<3,000	--	ND
	08/25/93	**<5**	**48,000**	**<3,000**	**<5,000**	**<3,000**	**NR**	**<1,000**	**<100**	**--**	**ND**

[1] Milligrams per liter
[2] Micrograms per liter
[3] Test not requested
[4] Not reported
[5] Not detected above reporting limits
[6] Tentatively identified compound concentrations



VICINITY MAP



- MONITORING WELL
- TEST BORING
- VAPOR EXTRACTION WELL
- PASSIVE VAPOR RECHARGE WELL
- APPROXIMATE LOCATION OF PREVIOUS UNDERGROUND STORAGE TANK
- APPROXIMATE EXTENT OF TANK EXCAVATION
- PROPERTY LINE
- GROUNDWATER CONTOURS (feet)
- (90.04) GROUNDWATER ELEVATION (feet)

N

APPROXIMATE SCALE (feet)

0 10 20

SITE PLAN

Subsurface Consultants

6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	9/10/93	

PLATE 1

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 01-SEP-93
Lab Job Number: 112021
Project ID: 820.001
Location: 6707 Bay St.



Reviewed by:

Reviewed by:

This package may be reproduced only in its entirety.

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 112021

Project Name: 6707 Bay St.
Project Number: 820.001

Report Date: 01 September 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520BF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
112021-001	MW-1	Water	25-AUG-93	25-AUG-93	31-AUG-93	ND	mg/L	5	TR	10374
112021-002	MW-3	Water	25-AUG-93	25-AUG-93	31-AUG-93	ND	mg/L	5	TR	10374
112021-003	MW-8	Water	25-AUG-93	25-AUG-93	31-AUG-93	ND	mg/L	5	TR	10374

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

Q C B a t c h R e p o r t

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 112021
Report Date: 01 September 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 10374**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	31-AUG-93

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	84%	SMWW 17:5520BF	31-AUG-93
BSD	82%	SMWW 17:5520BF	31-AUG-93

		Control Limits
Average Spike Recovery	83%	80% - 120%
Relative Percent Difference	3.2%	< 20%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-1
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET
SAMPLE ID: MW-1

DATE SAMPLED: 08/25/93
DATE RECEIVED: 08/25/93
DATE ANALYZED: 08/27/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107 %
Toluene-d8	106 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-2
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET
SAMPLE ID: MW-3

DATE SAMPLED: 08/25/93
DATE RECEIVED: 08/25/93
DATE ANALYZED: 08/27/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	111 %
Toluene-d8	104 %
Bromofluorobenzene	102 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-3
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET
SAMPLE ID: MW-8

DATE SAMPLED: 08/25/93
DATE RECEIVED: 08/25/93
DATE ANALYZED: 08/30/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	3,000
Bromomethane	ND	3,000
Vinyl chloride	ND	3,000
Chloroethane	ND	3,000
Methylene chloride	ND	5,000
Acetone	ND	5,000
Carbon disulfide	ND	1,000
Trichlorofluoromethane	ND	1,000
1,1-Dichloroethene	ND	1,000
1,1-Dichloroethane	ND	1,000
cis-1,2-Dichloroethene	ND	1,000
trans-1,2-Dichloroethene	ND	1,000
Chloroform	ND	1,000
Freon 113	ND	1,000
1,2-Dichloroethane	ND	1,000
2-Butanone	ND	3,000
1,1,1-Trichloroethane	ND	1,000
Carbon tetrachloride	ND	1,000
Vinyl acetate	ND	3,000
Bromodichloromethane	ND	1,000
1,2-Dichloropropane	ND	1,000
cis-1,3-Dichloropropene	ND	1,000
Trichloroethene	ND	1,000
Dibromochloromethane	ND	1,000
1,1,2-Trichloroethane	ND	1,000
Benzene	ND	1,000
trans-1,3-Dichloropropene	ND	1,000
Bromoform	ND	1,000
2-Hexanone	ND	3,000
4-Methyl-2-pentanone	48,000	3,000
1,1,2,2-Tetrachloroethane	ND	1,000
Tetrachloroethene	ND	1,000
Toluene	ND	1,000
Chlorobenzene	ND	1,000
Ethyl benzene	ND	1,000
Styrene	ND	1,000
Total xylenes	ND	1,000

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	101 %
Toluene-d8	96 %
Bromofluorobenzene	95 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET

DATE ANALYZED: 08/27/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L		Reporting Limit (ug/L)
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		20
Acetone	ND		20
Carbon disulfide	ND		5
Trichlorofluoromethane	ND		5
1,1-Dichloroethene	ND		5
1,1-Dichloroethane	ND		5
cis-1,2-Dichloroethene	ND		5
trans-1,2-Dichloroethene	ND		5
Chloroform	ND		5
Freon 113	ND		5
1,2-Dichloroethane	ND		5
2-Butanone	ND		10
1,1,1-Trichloroethane		6	5
Carbon tetrachloride	ND		5
Vinyl acetate	ND		10
Bromodichloromethane	ND		5
1,2-Dichloropropane	ND		5
cis-1,3-Dichloropropene	ND		5
Trichloroethene	ND		5
Dibromochloromethane	ND		5
1,1,2-Trichloroethane	ND		5
Benzene	ND		5
trans-1,3-Dichloropropene	ND		5
Bromoform	ND		5
2-Hexanone	ND		10
4-Methyl-2-pentanone	ND		10
1,1,2,2-Tetrachloroethane	ND		5
Tetrachloroethene	ND		5
Toluene	ND		5
Chlorobenzene	ND		5
Ethyl benzene	ND		5
Styrene	ND		5
Total xylenes	ND		5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	111 %
Toluene-d8	104 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET

DATE ANALYZED: 08/30/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	93 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

QC SUMMARY SHEET FOR EPA 8240

Laboratory Number: 112021
Client: Subsurface Consultants
Analysis date: 08/28/93
Sample type: Water
Spike file: brh18
Spike dup file: brh19

SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	48.88	98 %	OK	61 - 145
Trichloroethene	49.38	99 %	OK	71 - 120
Benzene	47.96	96 %	OK	76 - 127
Toluene	42.81	86 %	OK	76 - 125
Chlorobenzene	47.11	94 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	51.37	103 %	OK	76 - 114
Toluene-d8	49.61	99 %	OK	88 - 110
Bromofluorobenzene	48.95	98 %	OK	86 - 115
	48.41			

SPIKE DUP DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	50.98	102 %	OK	61 - 145
Trichloroethene	47.62	95 %	OK	71 - 120
Benzene	45.85	92 %	OK	76 - 127
Toluene	42.65	85 %	OK	76 - 125
Chlorobenzene	47.24	94 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	49.49	99 %	OK	76 - 114
Toluene-d8	49.08	98 %	OK	88 - 110
Bromofluorobenzene	48.77	98 %	OK	86 - 115

MATRIX RESULTS	
1,1-Dichloroethene	0
Trichloroethene	0
Benzene	0
Toluene	0
Chlorobenzene	0

RPD DATA

SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	48.88	50.98	4 %	OK	< 14
Trichloroethene	49.38	47.62	4 %	OK	< 14
Benzene	47.96	45.85	4 %	OK	< 11
Toluene	42.81	42.65	0 %	OK	< 13
Chlorobenzene	47.11	47.24	0 %	OK	< 13

Curtis & Tompkins, Ltd.

QC SUMMARY SHEET FOR EPA 8240

Laboratory Number:	112021		
Client:	Subsurface Consultants	Spike file:	chu08
Analysis date:	08/30/93	Spike dup file:	chu09
Sample type:	Water		

SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	47.04	94 %	OK	61 - 145
Trichloroethene	50.75	102 %	OK	71 - 120
Benzene	239.67	83 %	OK	76 - 127
Toluene	46.45	91 %	OK	76 - 125
Chlorobenzene	51.47	103 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	51.37	103 %	OK	76 - 114
Toluene-d8	48.84	98 %	OK	88 - 110
Bromofluorobenzene	47.68	95 %	OK	86 - 115

SPIKE DUP DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	49.11	98 %	OK	61 - 145
Trichloroethene	53.36	107 %	OK	71 - 120
Benzene	243.71	91 %	OK	76 - 127
Toluene	47.86	93 %	OK	76 - 125
Chlorobenzene	53.57	107 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	51.00	102 %	OK	76 - 114
Toluene-d8	48.46	97 %	OK	88 - 110
Bromofluorobenzene	46.63	93 %	OK	86 - 115

MATRIX RESULTS	
1,1-Dichloroethene	0
Trichloroethene	0
Benzene	198.39
Toluene	1.14
Chlorobenzene	0

RPD DATA

SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	47.04	49.11	4 %	OK	< 14
Trichloroethene	50.75	53.36	5 %	OK	< 14
Benzene	239.67	243.71	2 %	OK	< 11
Toluene	46.45	47.86	3 %	OK	< 13
Chlorobenzene	51.47	53.57	4 %	OK	< 13

CHAIN OF CUSTODY FORM

PAGE ____ OF ____

PROJECT NAME: 6707 BAY STREET
JOB NUMBER: 820.001
PROJECT CONTACT: MARK KAWAKAMI
SAMPLED BY: FERNANDO VELEZ
LAB: CURTIS & TOMPKINS
TURNAROUND: NORMAL
REQUESTED BY: MARK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	SOIL	WASTE	AIR	CONTAINERS: VOA	LITER	PINT	TUBE	METHOD PRESERVED: HCL	H_2SO_4	HNO_3	ICE	NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME	NOTES: 8240	8 & G
	MW-1	X				3	1			X			X		08	25	93		X	X
	MW-3	X				3	1			X			X		08	25	93		X	X
	MW-8	X				3	1			X			X		08	25	93		X	X

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	8/25/93 1:30	Teresa K. Morrison	8/25/93 1:30
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES:

ADD METHYL ETHYL KETONE AND METHYL ISOBUTYL KETONE TO 8240 ANALYSIS

Subsurface Consultants, Inc.
171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607
(510) 268-0461 • FAX: 510-268-0137

James P. Bowers, PE
R. William Rudolph, Jr., PE

ALCO
HAZMAT
94 JAN -5 PM 3:23

January 8, 1994
SCI 820.001

Mr. Brian Oliva
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Quarterly Groundwater Monitoring
November 1993
6707 Bay Street
Emeryville, California

Dear Mr. Oliva:

This letter records the results of a groundwater monitoring event performed by Subsurface Consultants, Inc. (SCI) at the referenced site in November 1993.

Three underground tanks used to store methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Soil and groundwater adjacent to the previous tanks were shown, through studies by others, to have been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation till early 1991. Since 1991, no additional remediation has been performed. Treatment system and monitoring well locations are shown on the Attached Site Plan, Plate 1.

Initially, groundwater levels in the four wells were measured. The groundwater level measurements are presented in Table 1. Groundwater surface contours for the November 1993 event are shown on Plate 1.

For this event, Wells 1, 3 and 8 were sampled. Prior to sampling, these wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 4 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

■ Subsurface Consultants, Inc.

171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 510-268-0461 • FAX 510-268-0137

After the wells had recharged to within 80 percent of the initial volume they were sampled using a pre-cleaned sampling device. The water samples were retained in pre-cleaned containers, placed in an iced cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the test performed. The samples were analytically tested for the following.

1. Volatile organic chemicals - EPA 8240, and

2. Oil & grease - SMWW 17:5520 E&F

A summary of the current and previous analytical test results are presented in Table 2. Analytical test reports and Chain-of-Custody documents are attached.

Conclusions

The groundwater level data indicate that groundwater flow direction is toward the northwest at a gradient of approximately 2 percent and the water level in the tank area is approximately 0.5 to 1 foot lower than levels previously recorded. This flow direction and gradient remain consistent with previous measurements.

Methyl isobutyl ketone, MIBK (4-methyl-2 pentanone) and oil and grease were detected in Well MW 8 at concentrations of 840 ug/l and 14 mg/l, respectively. No other volatile organic chemicals (EPA 8240) nor oil and grease were detected at concentrations in excess of the analytical detection limits in the wells being monitored. For this reason, it appears that the MIBK contaminant plume is limited to an area immediately adjacent to the previous tanks. The MIBK concentration detected in Well MW-8 is significantly lower than previously detected.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

R. William Rudolph

R. William Rudolph
Geotechnical Engineer 741 (expires 12/31/96)

MK:RWR:sld

Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Contaminant Concentrations in Groundwater
Plate 1 - Site Plan
Chain-of-Custody Records
Analytical Test Reports

cc: Kirk Jamieson, Pettit & Martin
John R. Boos, Pettit & Martin
James McClay, Scenic Art - MRCP

Table 1.
Groundwater Elevation Data

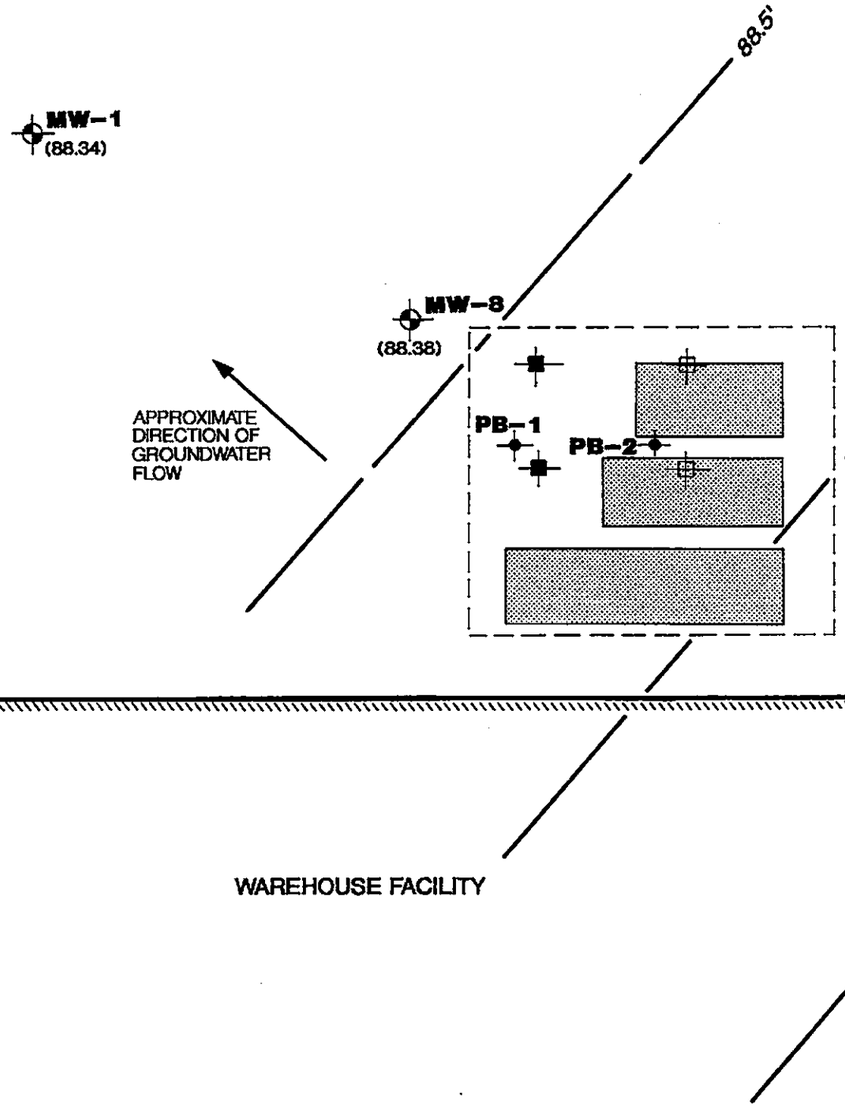
Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW-1	05/20/93	99.99	10.25	89.74
	06/04/93		11.45	88.54
	08/25/93		11.20	88.79
	11/18/93		11.65	88.34
MW-3	05/20/93	99.46	8.55	90.91
	06/04/93		9.36	90.10
	08/25/93		9.42	90.04
	11/18/93		10.03	89.43
MW-7	06/04/93	99.74	12.67	87.07
	08/25/93		12.44	87.30
	11/18/93		13.13	86.61
MW-8	05/20/93	100.10	9.55	90.55
	06/04/93		10.81	89.29
	08/25/93		10.93	89.17
	11/18/93		11.72	88.38

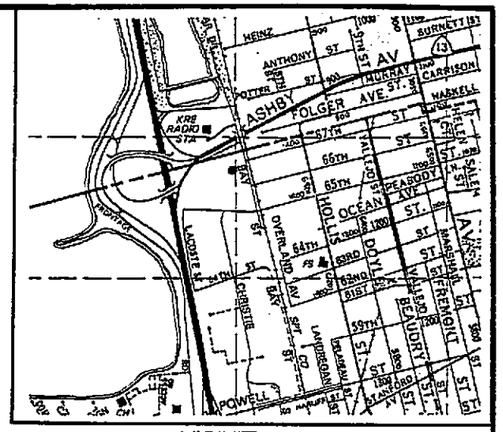
[1] Elevation reference: Building corner is assumed to be at elevation 100.00 feet

Table 2.
Contaminant Concentrations in Groundwater

Well	Date	Oil & Grease (mg/l)[1]	4-Methyl-2 Pentanone (ug/l)[2]	Vinyl Chloride (ug/l)	Acetone (ug/l)	2-Butanone (ug/l)	4-Methyl-2 Pentanol (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Bis (2-Ethyl Hexyl) Phthalate (ug/l)	Other Organic Chemicals (ug/l)
MW1	07/06/89	--[3]	NR[4]	<0.3	NR	NR	NR	<0.3	<0.3	--[4]	ND[5]
	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	40	ND
	01/10/90	--	NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91	--	<10	<10	<20	<20	NR	7	8	--	ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	08/25/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	11/18/93	**<5**	**<10**	**<10**	**<40**	**<10**	**ND**	**<5**	**<5**	**--**	**ND**
MW3	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	80	ND
	01/10/90	--	NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91	--	<10	<10	<20	<20	NR	<5	<5	--	ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	08/25/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	11/18/93	**<5**	**<10**	**<10**	**<20**	**<10**	**NR**	**<5**	**<5**	**--**	**ND**
MW8	01/10/90	--	160,000	<6,000	NR	NR	NR	2,100	<1,000	<100	ND
	12/10/90	--	47,000[6]	<150	3,200[6]	10,000[6]	130,000[6]	160	<25	--	ND
	09/05/91	--	150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000	--	ND
	05/20/93	<5	100,000	<5,000	<10,000	<5,000	NR	<3,000	<3,000	--	ND
	08/25/93	<5	48,000	<3,000	<5,000	<3,000	NR	<1,000	<100	--	ND
	11/18/93	**14**	**840**	**<50**	**<100**	**<50**	**NR**	**<25**	**<25**	**--**	**ND**

[1] Milligrams per liter
[2] Micrograms per liter
[3] Test not requested
[4] Not reported
[5] Not detected above reporting limits
[6] Tentatively identified compound concentrations





VICINITY MAP

- MONITORING WELL
- TEST BORING
- VAPOR EXTRACTION WELL
- PASSIVE VAPOR RECHARGE WELL
- APPROXIMATE LOCATION OF PREVIOUS UNDERGROUND STORAGE TANK
- APPROXIMATE EXTENT OF TANK EXCAVATION
- PROPERTY LINE
- GROUNDWATER CONTOURS (feet)
- (90.04) GROUNDWATER ELEVATION (feet)

N

APPROXIMATE SCALE (feet)

0 10 20

SITE PLAN

Subsurface Consultants

6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	11/24/93	

PLATE 1

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 30-NOV-93
Lab Job Number: 113251
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: _____

Reviewed by: _____

This package may be reproduced only in its entirety.

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251-01
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-1

DATE SAMPLED: 11/18/93
DATE RECEIVED: 11/18/93
DATE ANALYZED: 11/24/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	40
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	107 %
Bromofluorobenzene	102 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251-02
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-3

DATE SAMPLED: 11/18/93
DATE RECEIVED: 11/18/93
DATE ANALYZED: 11/24/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	104 %
Toluene-d8	102 %
Bromofluorobenzene	99 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251-03
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-8

DATE SAMPLED: 11/18/93
DATE RECEIVED: 11/18/93
DATE ANALYZED: 11/24/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl chloride	ND	50
Chloroethane	ND	50
Methylene chloride	ND	100
Acetone	ND	100
Carbon disulfide	ND	25
Trichlorofluoromethane	ND	25
1,1-Dichloroethene	ND	25
1,1-Dichloroethane	ND	25
trans-1,2-Dichloroethene	ND	25
cis-1,2-Dichloroethene	ND	25
Chloroform	ND	25
Freon 113	ND	25
1,2-Dichloroethane	ND	25
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	25
Carbon tetrachloride	ND	25
Vinyl acetate	ND	250
Bromodichloromethane	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
Trichloroethene	ND	25
Dibromochloromethane	ND	25
1,1,2-Trichloroethane	ND	25
Benzene	ND	25
trans-1,3-Dichloropropene	ND	25
Bromoform	ND	25
2-Hexanone	ND	50
4-Methyl-2-pentanone	840	50
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
Chlorobenzene	ND	25
Ethyl benzene	ND	25
Styrene	ND	25
Total xylenes	ND	25

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107 %
Toluene-d8	96 %
Bromofluorobenzene	94 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 11/23/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L		Reporting Limit (ug/L)
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		20
Acetone	ND		20
Carbon disulfide	ND		5
Trichlorofluoromethane	ND		5
1,1-Dichloroethene	ND		5
1,1-Dichloroethane	ND		5
trans-1,2-Dichloroethene	ND		5
cis-1,2-Dichloroethene	ND		5
Chloroform	ND		5
Freon 113	ND		5
1,2-Dichloroethane	ND		5
2-Butanone	ND		10
1,1,1-Trichloroethane		8	5
Carbon tetrachloride	ND		5
Vinyl acetate	ND		50
Bromodichloromethane	ND		5
1,2-Dichloropropane	ND		5
cis-1,3-Dichloropropene	ND		5
Trichloroethene	ND		5
Dibromochloromethane	ND		5
1,1,2-Trichloroethane	ND		5
Benzene	ND		5
trans-1,3-Dichloropropene	ND		5
Bromoform	ND		5
2-Hexanone	ND		10
4-Methyl-2-pentanone	ND		10
1,1,2,2-Tetrachloroethane	ND		5
Tetrachloroethene	ND		5
Toluene	ND		5
Chlorobenzene	ND		5
Ethyl benzene	ND		5
Styrene	ND		5
Total xylenes	ND		5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	100 %
Bromofluorobenzene	105 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 11/24/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	106 %
Toluene-d8	103 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

MS/MSD Report

Matrix Sample Number: 113224-001
Lab No: QC53042 QC53043
Matrix: WATER
Batch No: 11584 939416 939417 939411

Date Analyzed: 24-NOV-93
Spike File: >BKN17
Spike Dup File: >BKN18
Analyst: CW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	51.62	50	100 %	61-145%
Trichloroethene	54.89	50	110 %	71-120%
Benzene	54.45	50	102 %	76-127%
Toluene	55.56	50	92 %	76-125%
Chlorobenzene	53.21	50	106 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	49.66	50	99 %	76-114%
Toluene-d8	52.86	50	106 %	88-110%
Bromofluorobenzene	50.82	50	102 %	86-115%
MSD RESULTS				
1,1-Dichloroethene	47.43	50	92 %	61-145%
Trichloroethene	51.76	50	104 %	71-120%
Benzene	53.28	50	100 %	76-127%
Toluene	54.71	50	90 %	76-125%
Chlorobenzene	51.02	50	102 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.45	50	97 %	76-114%
Toluene-d8	50.8	50	102 %	88-110%
Bromofluorobenzene	47.95	50	96 %	86-115%

MATRIX RESULTS		
1,1-Dichloroethene	1.45	
Trichloroethene	0	
Benzene	3.48	
Toluene	9.81	
Chlorobenzene	0	
RPD DATA		
1,1-Dichloroethene	8 %	< 14%
Trichloroethene	6 %	< 14%
Benzene	2 %	< 11%
Toluene	2 %	< 13%
Chlorobenzene	4 %	< 13%

Results within Specifications - PASS CW 11/24/93

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

MS/MSD Report

Matrix Sample Number: 113289-006
Lab No: QC53117 QC53118
Matrix: WATER
Batch No: 11605 939439 939440 939436

Date Analyzed: 24-NOV-93
Spike File: >BKO13
Spike Dup File: >BKO14
Analyst: CK

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	42.34	50	85 %	61-145%
Trichloroethene	48.33	50	97 %	71-120%
Benzene	49.39	50	97 %	76-127%
Toluene	46.27	50	93 %	76-125%
Chlorobenzene	50.29	50	100 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	52.31	50	105 %	76-114%
Toluene-d8	49.97	50	100 %	88-110%
Bromofluorobenzene	51.04	50	102 %	86-115%
MSD RESULTS				
1,1-Dichloroethene	43.21	50	86 %	61-145%
Trichloroethene	50.4	50	101 %	71-120%
Benzene	51.08	50	100 %	76-127%
Toluene	47.12	50	94 %	76-125%
Chlorobenzene	50.63	50	100 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	53.88	50	108 %	76-114%
Toluene-d8	52.02	50	104 %	88-110%
Bromofluorobenzene	50.78	50	102 %	86-115%

MATRIX RESULTS	
1,1-Dichloroethene	0
Trichloroethene	0
Benzene	.891
Toluene	0
Chlorobenzene	.482

RPD DATA		
1,1-Dichloroethene	2 %	
Trichloroethene	4 %	< 14%
Benzene	3 %	< 14%
Toluene	2 %	< 11%
Chlorobenzene	1 %	< 13%
		< 13%

Results within Specifications - PASS

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 113251

Report Date: 30 November 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520BF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
113251-001	MW-1	Water	18-NOV-93	18-NOV-93	18-NOV-93	ND	mg/L	5	TR	11545
113251-002	MW-3	Water	18-NOV-93	18-NOV-93	18-NOV-93	ND	mg/L	5	TR	11545
113251-003	MW-8	Water	18-NOV-93	18-NOV-93	18-NOV-93	14.	mg/L	5	TR	11545

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

QC Batch Report

Client: Subsurface Consultants

Laboratory Login Number: 113251
Report Date: 30 November 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 11545**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	18-NOV-93

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	86%	SMWW 17:5520BF	18-NOV-93
BSD	88%	SMWW 17:5520BF	18-NOV-93

		Control Limits
Average Spike Recovery	87%	80% - 120%
Relative Percent Difference	2.4%	< 20%

CHAIN OF CUSTODY FORM

PROJECT NAME: Bay Street

JOB NUMBER: 820.001 LAB: Curtis & Tompkins

PROJECT CONTACT: Mark Kawakami TURNAROUND: Normal

SAMPLED BY: Charles Pearson REQUESTED BY: MK

ANALYSIS REQUESTED: Oil & Grease 5520

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	SOIL	WASTE	AIR			CONTAINERS: VOA	LITER	PINT	TUBE			METHOD PRESERVED: HCL	H_2SO_4	HNO_3	ICE	NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME	NOTES	ANALYSIS REQUESTED
	MW-1	X						4	1					X			X		11	18	93			1
	MW-3	X						4	1					X			X		11	18	93			1
	MW-8	X						4	1					X			X		11	18	93			1

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Charles Pearson	11-18-93 12:30	[signature]	11/18/93 12:30
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES:

Mike & Mik

Subsurface Consultants, Inc.
171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607
(510) 268-0461 • FAX: 510-268-0137

James P. Bowers, PE
R. William Rudolph, Jr., PE

ALCO
HAZMAT
94 APR -6 PM 1:31

April 5, 1994
SCI 820.001

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Quarterly Groundwater Monitoring
February 1994
6707 Bay Street
Emeryville, California

Dear Ms. Hugo:

This letter records the results of a groundwater monitoring event performed by Subsurface Consultants, Inc. (SCI) at the referenced site in February 1994.

Three underground tanks which previously stored methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Studies conducted following tank removal indicated that soil and groundwater adjacent to the previous tanks had been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation until early 1991. Since 1991, no additional remediation has been performed. Treatment system and monitoring well locations are shown on the attached Site Plan, Plate 1.

Initially, groundwater levels in the four wells were measured. The groundwater level measurements are presented in Table 1. Groundwater surface contours for the February 1994 event are shown on Plate 1.

For this event, Wells 1, 3 and 8 were sampled. Prior to sampling, these wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 4 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

After the wells had recharged to within 80 percent of the initial volume they were sampled using a pre-cleaned sampling device. The water samples were retained in pre-cleaned containers, placed in an iced cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the test performed. The samples were analytically tested for the following.

1. Volatile organic chemicals - EPA 8240, and

2. Oil & grease - SMWW 17:5520 E&F

A summary of the current and previous analytical test results are presented in Table 2. Analytical test reports and Chain-of-Custody documents are attached.

Conclusions

The groundwater level data indicate that groundwater flow direction is toward the northwest at a gradient of approximately 2 to 3 percent and the water level in the tank area is approximately 1.5 to 2.5 feet higher than levels recorded during the November 1993 monitoring event. This flow direction and gradient remain consistent with previous measurements.

Methyl isobutyl ketone, MIBK (4-methyl-2 pentanone) was detected in Well MW-8 at a concentration of 14,000 ug/l. No other volatile organic chemicals (EPA 8240) nor oil and grease were detected at concentrations in excess of the analytical detection limits in the wells being monitored. For this reason, it appears that the MIBK contaminant plume is limited to an area immediately adjacent to the previous tanks. The MIBK concentration detected in Well MW-8 is significantly higher that detected during the November 1993 monitoring event. This is likely due to the higher water levels.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

R. William Rudolph
Geotechnical Engineer 741 (expires 12/31/96)

MK:RWR:clh

Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Contaminant Concentrations in Groundwater
Plate 1 - Site Plan
Chain-of-Custody Records
Analytical Test Reports

cc: Brian Berger, Pettit & Martin
Kirk Jamieson, Pettit & Martin
John R. Boos, Pettit & Martin
James McClay, Scenic Art - MRCP

Table 1.
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW-1	05/20/93	99.99	10.25	89.74
	06/04/93		11.45	88.54
	08/25/93		11.20	88.79
	11/18/93		11.65	88.34
	02/25/94		10.04	89.95
MW-3	05/20/93	99.46	8.55	90.91
	06/04/93		9.36	90.10
	08/25/93		9.42	90.04
	11/18/93		10.03	89.43
	02/25/94		7.29	92.17
MW-7	06/04/93	99.74	12.67	87.07
	08/25/93		12.44	87.30
	11/18/93		13.13	86.61
	02/25/94		11.80	87.94
MW-8	05/20/93	100.10	9.55	90.55
	06/04/93		10.81	89.29
	08/25/93		10.93	89.17
	11/18/93		11.72	88.38
	02/25/94		9.05	91.05

[1] Elevation reference: Building corner is assumed to be at elevation 100.00 feet

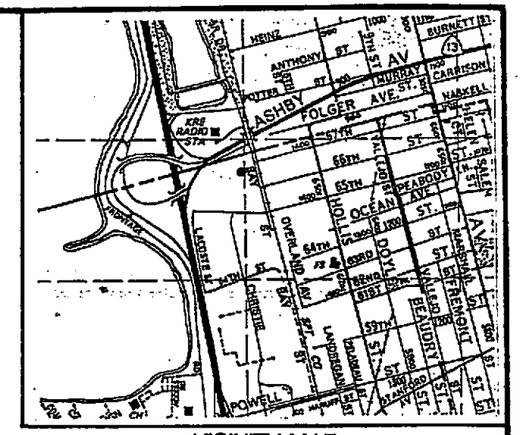
Table 2.
Contaminant Concentrations in Groundwater

Well	Date	Oil & Grease (mg/l)[1]	4-Methyl-2 Pentanone (ug/l)[2]	Vinyl Chloride (ug/l)	Acetone (ug/l)	2-Butanone (ug/l)	4-Methyl-2 Pentanol (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Bis (2-Ethyl Hexyl) Phthalate (ug/l)	Other Organic Chemicals (ug/l)
MW1	07/06/89	--[3]	NR[4]	<0.3	NR	NR	NR	<0.3	<0.3	--[4]	ND[5]
	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	40	ND
	01/10/90	--	NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91	--	<10	<10	<20	<20	NR	7	8	--	ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	08/25/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	11/18/93	<5	<10	<10	<40	<10	NR	<5	<5	--	ND
	02/25/94	**<5**	**<10**	**<10**	**<10**	**<10**	**NR**	**<5**	**<5**	**--**	**ND**
MW3	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	80	ND
	01/10/90	--	NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91	--	<10	<10	<20	<20	NR	<5	<5	--	ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	08/25/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	11/18/93	<5	<10	<10	<20	<10	NR	<5	<5	--	ND
	02/25/94	**<5**	**<10**	**<10**	**<10**	**<10**	**NR**	**<5**	**<5**	**--**	**ND**
MW8	01/10/90	--	160,000	<6,000	NR	NR	NR	2,100	<1,000	<100	ND
	12/10/90	--	47,000[6]	<150	3,200[6]	10,000[6]	130,000[6]	160	<25	--	ND
	09/05/91	--	150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000	--	ND
	05/20/93	<5	100,000	<5,000	<10,000	<5,000	NR	<3,000	<3,000	--	ND
	08/25/93	<5	48,000	<3,000	<5,000	<3,000	NR	<1,000	<100	--	ND
	11/18/93	14	840	<50	<100	<50	NR	<25	<25	--	ND
	02/25/94	**<5**	**14,000**	**<1,000**	**<2,000**	**<1,000**	**NR**	**<500**	**<500**	**--**	**ND**

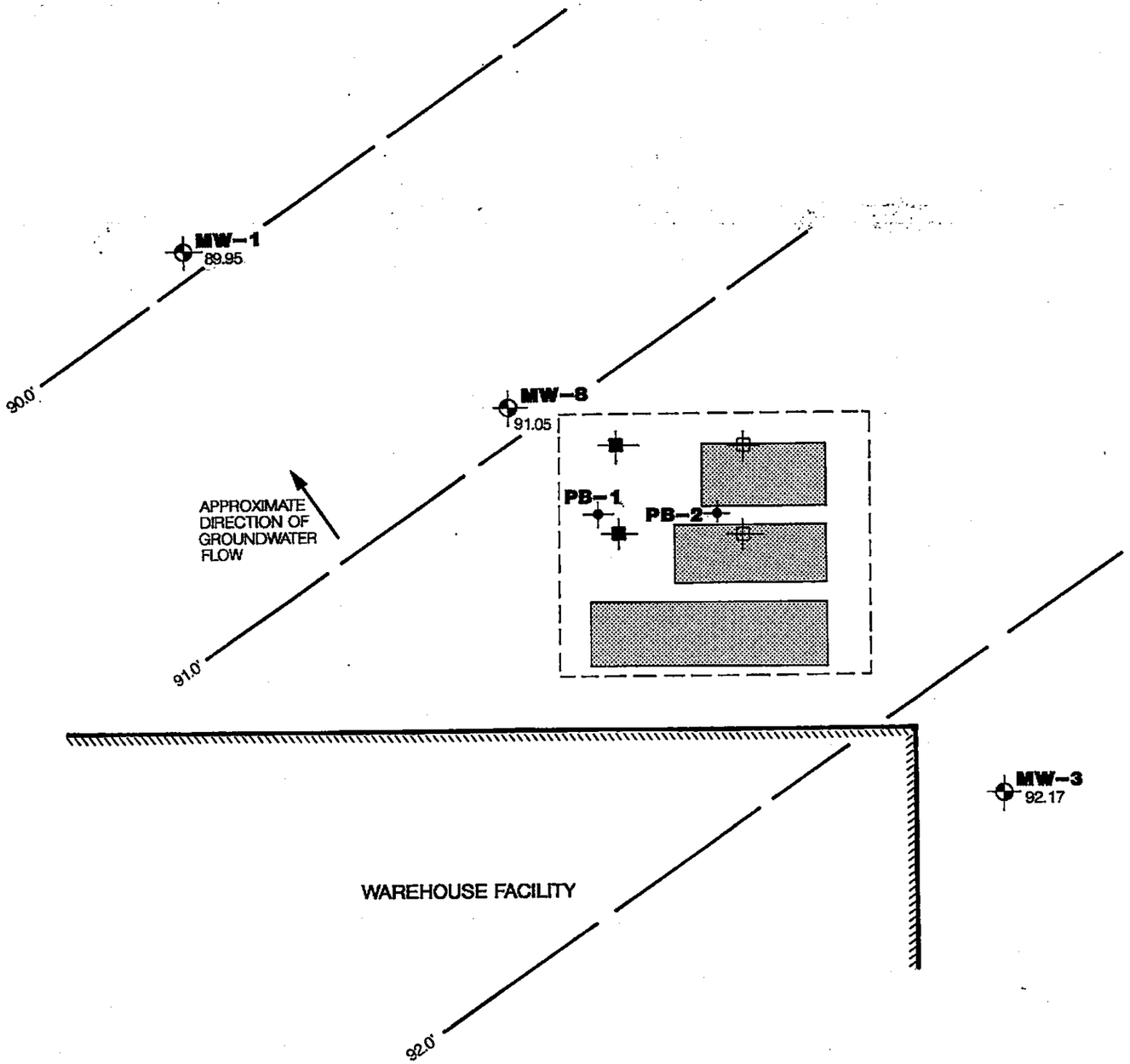
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1 Milligrams per liter
2 Micrograms per liter
3 Test not requested
4 Not reported
5 Not detected above reporting limits
6 Tentatively identified compound concentrations

data for other wells?



VICINITY MAP



- MONITORING WELL
- TEST BORING
- VAPOR EXTRACTION WELL
- PASSIVE VAPOR RECHARGE WELL
- APPROXIMATE LOCATION OF PREVIOUS UNDERGROUND STORAGE TANK
- APPROXIMATE EXTENT OF TANK EXCAVATION
- PROPERTY LINE
- GROUNDWATER CONTOUR ELEVATION (feet) (2/25/94)

N

APPROXIMATE SCALE (feet)

0 10 20

SITE PLAN

Subsurface Consultants

6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	3/9/94	

PLATE 1

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 07-MAR-94
Lab Job Number: 114517
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by:

Reviewed by:

This package may be reproduced only in its entirety.

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 114517-001
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-1

DATE SAMPLED: 02/25/94
DATE RECEIVED: 02/25/94
DATE ANALYZED: 02/28/94
DATE REPORTED: 03/07/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone (MEK)	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone (MIBK)	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	111 %
Bromofluorobenzene	90 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 114517-002
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-3

DATE SAMPLED: 02/25/94
DATE RECEIVED: 02/25/94
DATE ANALYZED: 02/28/94
DATE REPORTED: 03/07/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone (MEK)	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone (MIBK)	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	106 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 114517-003
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-8

DATE SAMPLED: 02/25/94
DATE RECEIVED: 02/25/94
DATE ANALYZED: 02/28/94
DATE REPORTED: 03/07/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	1,000
Bromomethane	ND	1,000
Vinyl chloride	ND	1,000
Chloroethane	ND	1,000
Methylene chloride	ND	2,000
Acetone	ND	2,000
Carbon disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	500
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
Freon 113	ND	500
1,2-Dichloroethane	ND	500
2-Butanone (MEK)	ND	1,000
1,1,1-Trichloroethane	ND	500
Carbon tetrachloride	ND	500
Vinyl acetate	ND	5,000
Bromodichloromethane	ND	500
1,2-Dichloropropane	ND	500
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	500
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	500
Benzene	ND	500
trans-1,3-Dichloropropene	ND	500
Bromoform	ND	500
2-Hexanone	ND	1,000
4-Methyl-2-pentanone (MIBK)	14,000	1,000
1,1,2,2-Tetrachloroethane	ND	500
Tetrachloroethene	ND	500
Toluene	ND	500
Chlorobenzene	ND	500
Ethyl benzene	ND	500
Styrene	ND	500
Total xylenes	ND	500

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	107 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 114517-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: N/A

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 02/28/94
DATE REPORTED: 03/07/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	101 %
Toluene-d8	107 %
Bromofluorobenzene	96 %

Curtis & Tompkins, Ltd

MS/MSD Report

Curtis & Tompkins, Ltd.

Matrix Sample Number: 114451-005
Lab No: QC58211 QC58212
Matrix: WATER
Batch No: 12919 9412684 9412686 9412663

Date Analyzed: 28-FEB-94
Spike File: >CBS17
Spike Dup File: >CBS18
Analyst: CW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	46.24	50	93 %	61-145%
Trichloroethene	51.36	50	103 %	71-120%
Benzene	47.36	50	95 %	76-127%
Toluene	45.27	50	91 %	76-125%
Chlorobenzene	51.27	50	103 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.61	50	97 %	76-114%
Toluene-d8	51.06	50	102 %	88-110%
Bromofluorobenzene	45.18	50	90 %	86-115%
MSD RESULTS				
1,1-Dichloroethene	45.58	50	91 %	61-145%
Trichloroethene	52.42	50	105 %	71-120%
Benzene	48.71	50	97 %	76-127%
Toluene	46.36	50	93 %	76-125%
Chlorobenzene	52.48	50	105 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.96	50	98 %	76-114%
Toluene-d8	50.83	50	102 %	88-110%
Bromofluorobenzene	47.35	50	95 %	86-115%
MATRIX RESULTS				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	0			
Toluene	0			
Chlorobenzene	0			

RPD DATA		
1,1-Dichloroethene	1 %	< 14%
Trichloroethene	2 %	< 14%
Benzene	3 %	< 11%
Toluene	2 %	< 13%
Chlorobenzene	2 %	< 13%

Results within Specifications - PASS CW 3/1/94

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 114517

Project Name: 6707 Bay St.
Project Number: 820.001

Report Date: 07 March 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD:** SMWW 17:5520BF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
114517-001	MW-1	Water	25-FEB-94	25-FEB-94	03-MAR-94	ND	mg/L	5	TR	13004
114517-002	MW-3	Water	25-FEB-94	25-FEB-94	03-MAR-94	ND	mg/L	5	TR	13004
114517-003	MW-8	Water	25-FEB-94	25-FEB-94	03-MAR-94	ND	mg/L	5	TR	13004

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

QC Batch Report

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 114517
Report Date: 07 March 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 13004**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	03-MAR-94

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	84%	SMWW 17:5520BF	03-MAR-94
BSD	87%	SMWW 17:5520BF	03-MAR-94

		Control Limits
Average Spike Recovery	86%	80% - 120%
Relative Percent Difference	3.2%	< 20%

CHAIN OF CUSTODY FORM

PAGE ____ OF ____

PROJECT NAME: Bay St.
JOB NUMBER: 820.001
PROJECT CONTACT: Mark Kawakami
SAMPLED BY: Dennis Alexander

LAB: Curtis & Tompkins
TURNAROUND: Normal
REQUESTED BY: Mark Kawakami

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	MATRIX: SOIL	MATRIX: WASTE	MATRIX: AIR	CONTAINERS: VOA	CONTAINERS: LITER	CONTAINERS: PINT	CONTAINERS: TUBE	METHOD PRESERVED: HCL	METHOD PRESERVED: H_2SO_4	METHOD PRESERVED: HNO_3	METHOD PRESERVED: ICE	METHOD PRESERVED: NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME	NOTES	ANALYSIS REQUESTED: 8240	8240 04G
	MW-1	X				3	1			X			X		02	25	94	1130	X	X	X
	MW-3	X				3	1			X			X		02	25	94	1220	X	X	X
	MW-8	X				3	1			X			X		02	25	94	1315	X	X	X

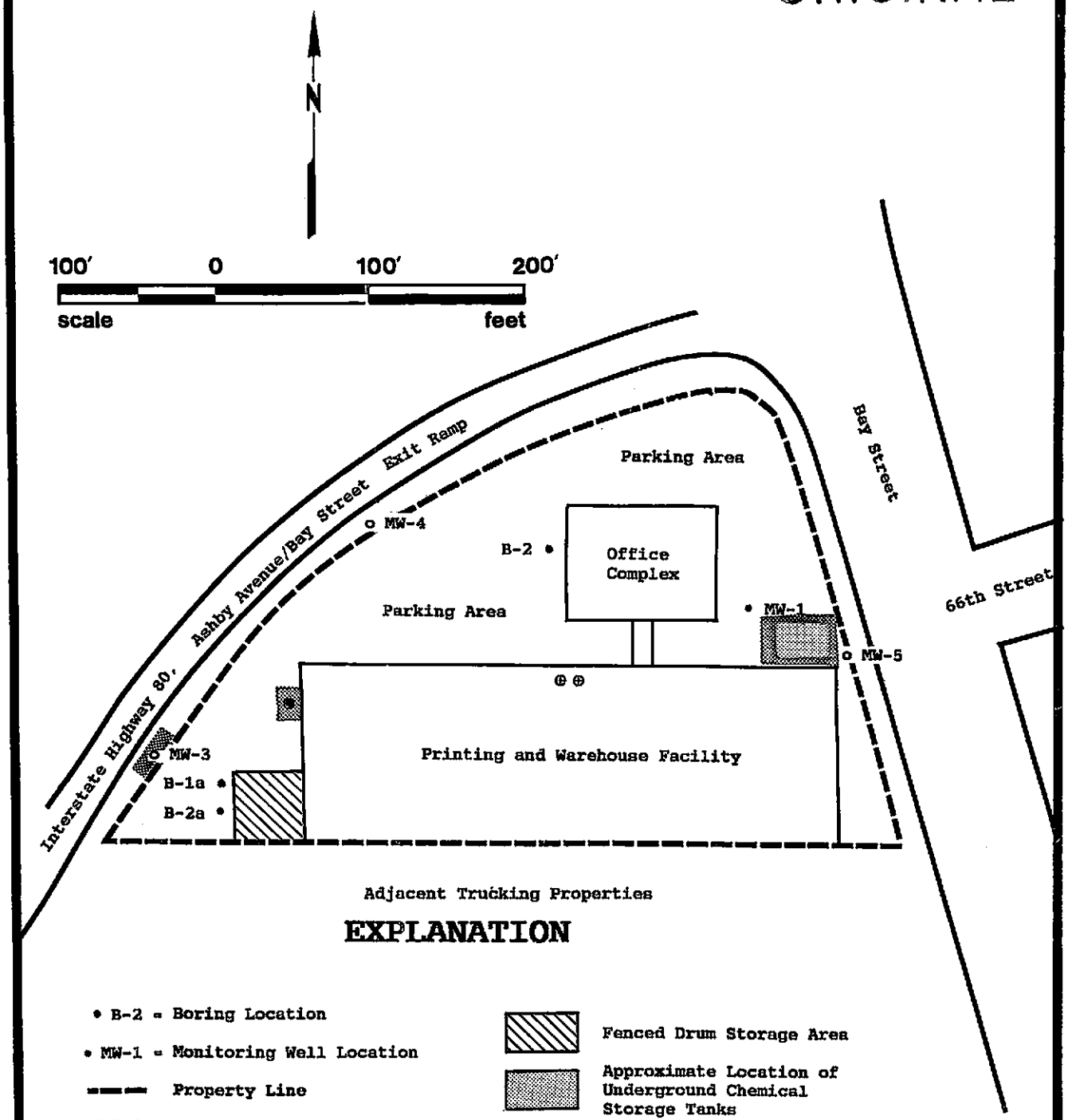
CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Dennis Alexander	2/25/94 1:35 p.m.	[signature]	2/25/94 13:35
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES:
Include Methyl Isobutyl Ketone and Methyl Ethyl Ketone in 8240 analysis

Subsurface Consultants, Inc.
171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607
(510) 268-0461 • FAX: 510-268-0137

ORIGINAL



EXPLANATION

- • B-2 = Boring Location
- • MW-1 = Monitoring Well Location
- Property Line
- o MW-3 = Approximate Location of Proposed Monitoring Well
- ⊕ = Approximate Location of Sumps
- Fenced Drum Storage Area
- Approximate Location of Underground Chemical Storage Tanks
- Approximate Location of Excavations

LW Environmental Services, Inc.
2111 Jennings St., San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

SITE PLAN

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

FIGURE 1

ALCO
HAZMAT

94 JUN 10 PM 4:05

Ms. Susan Hugo
Alameda County Health Care
Services Agency
Division of Hazardous Materials
80 Swan Way, #200
Oakland, CA 94612

■ Subsurface Consultants, Inc.
171 12th Street • Suite 201 • Oakland, California 94607

R. William Rudolph, Jr., PE
Thomas E. Cundey, PE
Jeriann N. Alexander, PE

ENVIRONMENTAL PROTECTION
95 MAR -2 PM 1:47

March 1, 1995
SCI 820.001

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

RECEIVED
MAR 0 2 1995
ENVIRONMENTAL HEALTH SERVICES
NORTH COUNTY

Groundwater Monitoring
February 1995 Event
6707 Bay Street
Emeryville, California

Dear Ms. Hugo:

This letter records the results of a groundwater monitoring event performed by Subsurface Consultants, Inc. (SCI) at the referenced site in February 1995.

Three underground tanks which previously stored methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Studies conducted following tank removal indicated that soil and groundwater adjacent to the previous tanks had been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation until early 1991. Since 1991, no additional remediation has been performed. SCI implemented groundwater monitoring on a quarterly basis from May 1993 to August 1994. Monitoring well locations are shown on the attached Site Plan, Plate 1.

For this event, Wells 1, 8, 9 and 10 were sampled. Prior to sampling, water levels were measured and then these wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 4 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

After the wells had recharged to within 80 percent of the initial volume they were sampled using a pre-cleaned sampling device. The water samples were retained in pre-cleaned containers, placed in an iced

cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

As requested by Ms. Susan Hugo of Alameda County Health Care Services Agency (ACHCSA), groundwater levels were measured simultaneously with wells at the adjacent site. The groundwater level measurements are presented in Table 1. Groundwater surface contours for the February 1995 event are shown on Plate 1.
Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the test performed. The samples were analytically tested for the following.

1. Volatile organic chemicals - EPA 8240, and

2. Total volatile hydrocarbons - EPA 8015/5030

3. Total extractable hydrocarbons - EPA 8015/3550

A summary of the current and previous analytical test results are presented in Tables 2 and 3. Analytical test reports and Chain-of-Custody documents are attached.

Conclusions

The groundwater level data indicate that groundwater flow direction is toward the south at a gradient of approximately 2 to 2.5 percent throughout both sites. Water levels are approximately 3 to 4 feet higher than levels recorded during the October 1994 event. Previous and current water levels are summarized in the Table 1.

As shown in Table 2, volatile organic chemical concentrations during the current event are consistent with previous results. As presented in the Table 3, petroleum hydrocarbon concentrations are generally lower than the October 1994 event.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

R. William Rudolph
Geotechnical Engineer 741 (expires 12/31/96)

MK:RWR:sld

Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Volatile Organic Chemical Concentrations in Groundwater
Table 3 - Petroleum Hydrocarbon Concentrations in Groundwater
Plate 1 - Site Plan
Analytical Test Reports
Chain-of-Custody Records
Groundwater Sampling Forms

cc: Brian Berger, Pettit & Martin
James McClay, Scenic Art - MRCP

Table 1
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
SCI MW-1	9/7/89	20.61	11.60	9.01
	5/20/93		10.25	10.36
	6/4/93		11.45	9.16
	8/25/93		11.20	9.41
	11/18/93		11.65	8.96
	2/25/94		10.04	10.57
	4/20/94		10.54	10.07
	4/22/94		10.56	10.05
	4/26/94	20.39	10.38	10.01
	8/8/94		11.02	9.37
	2/9/95		7.48	12.91
SCI MW-3	9/7/89	20.09	9.83	10.26
	5/20/93		8.55	11.54
	6/4/93		9.36	10.73
	8/25/93		9.42	10.67
	11/18/93		10.03	10.06
	2/25/94		7.29	12.80
	4/20/94		8.56	11.53
	4/22/94		8.65	11.44
	4/26/94		8.21	11.88
	8/8/94		9.31	10.78
	2/9/95		7.15	12.94
SCI MW-5	9/7/89	18.06	10.27	7.79
	4/22/94		9.26	8.80
	4/26/94		9.24	8.82
	8/8/94		9.96	8.10
	2/9/95		6.68	11.38
SCI MW-7	6/4/93	20.36	12.67	7.69
	8/25/93		12.44	7.92
	11/18/93		13.13	7.23
	2/25/94		11.80	8.56
	4/20/94		12.21	8.15
	4/22/94		12.26	8.10
	4/26/94		12.21	8.15
	8/8/94		12.65	7.71
	2/9/95		10.20	10.16
SCI MW-8	5/20/93	20.72	9.55	11.17
	6/4/93		10.81	9.91
	8/25/93		10.93	9.79
	11/18/93		11.72	9.00
	2/25/94		9.05	11.67
	4/20/94		10.18	10.54
	4/22/94		10.48	10.24
	4/26/94		10.13	10.59
	8/8/94		10.99	9.73
	2/9/95		7.85	12.87
SCI MW-9	4/20/94	20.69	10.26	10.43
	4/22/94		10.31	10.38
	4/26/94		10.26	10.43
	8/8/94		11.24	9.45
	2/9/95		7.55	13.14

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
SCI MW-10	4/20/94	20.42	10.72	9.70
	4/22/94		10.73	9.69
	4/26/94		10.72	9.70
	8/8/94		11.60	8.82
	2/9/95		7.10	13.32
PES MW-2	2/9/95	15.79	10.64	5.15
PES MW-3	2/9/95	12.43	6.86	5.57
PES MW-4	2/9/95	12.24	8.11	4.13
PES MW-5	2/9/95	12.82	5.68	7.14
PES MW-6	2/9/95	12.03	7.66	4.37
PES MW-7	2/9/95	12.90	7.57	5.33
PES MW-8	2/9/95	15.01	10.23	4.78

1 Reference Elevation: MSL

Table 2
Volatile Organic Chemical Concentrations in Groundwater

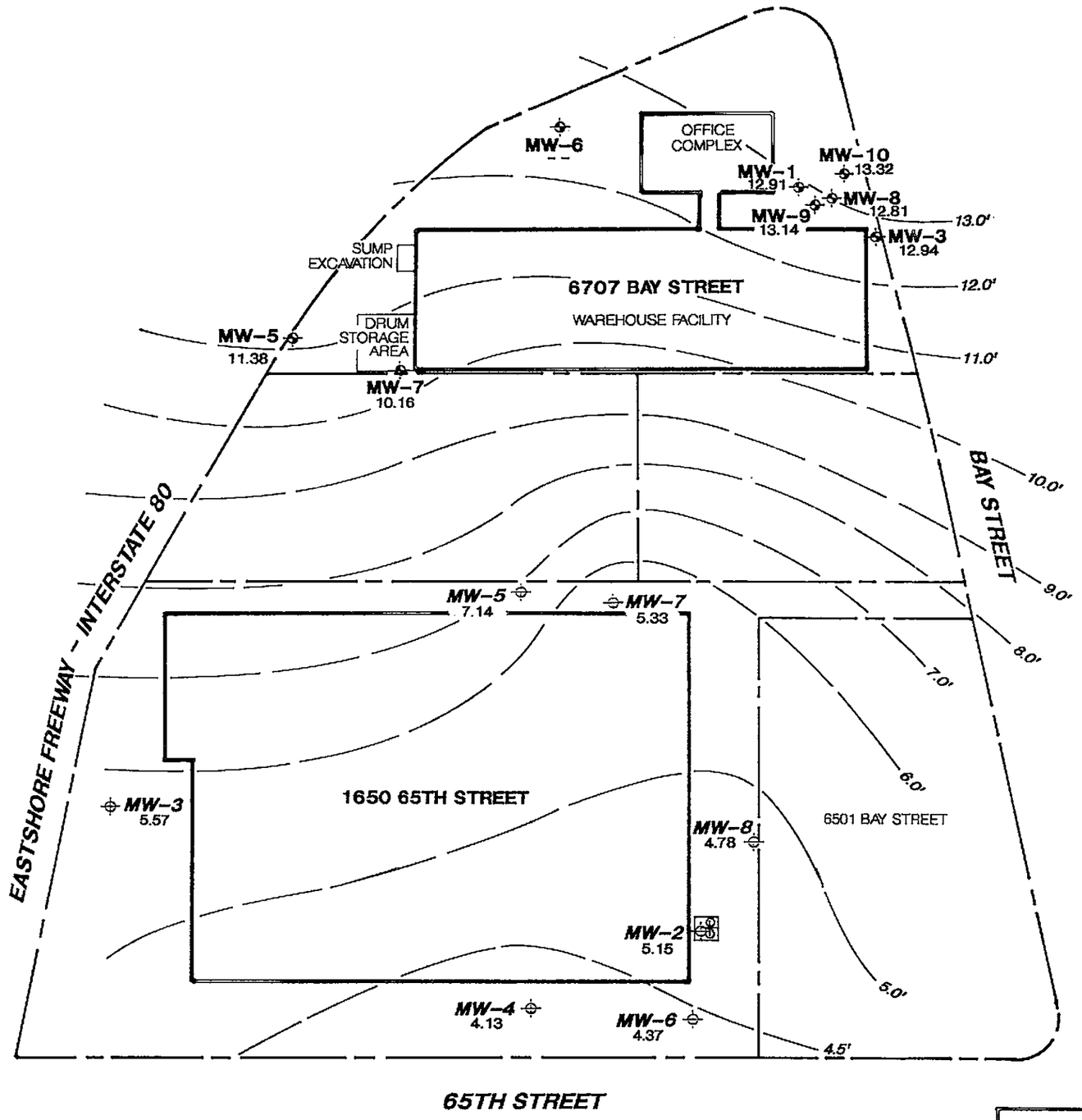
Reference No.	Well	Date	4-Methyl-2 Pentanone (µg/l)[1]	Vinyl Chloride (µg/l)	Acetone (µg/l)	2-Butanone (µg/l)	4-Methyl-2 Pentanol (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl benzene (µg/l)	Xylene (µg/l)	Trans-1,2 Dichloro-ethene (µg/l)	Other EPA 8240 Compounds (µg/l)
3	Sump-Well	8/21/89	<20	<4	<20	<20	NR[2]	<2	<2	<3	<3	<3	ND[3]
5	MW1	7/6/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
5		9/7/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
8		1/10/90	NR	<30	NR	NR	NR	<5	<5	<5	<5	<5	ND
10		9/5/91	<10	<10	<20	<20	NR	7	8	<5	3	<5	ND
12		5/20/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		8/25/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		11/18/93	<10	<10	<40	<10	NR	<5	<5	<5	<5	<5	ND
12		2/25/94	<10	<10	<10	<10	NR	<5	<5	<5	<5	<5	ND
		8/8/94	<10	<10	<10	<10	NR	<5	<5	<5	<5	<5	ND
		2/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
5	MW3	9/7/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
8		1/10/90	NR	<30	NR	NR	NR	<5	<5	<5	<5	<5	ND
10		9/5/91	<10	<10	<20	<20	NR	<5	<5	<5	<5	<5	ND
12		5/20/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		8/25/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		11/18/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		2/25/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
		8/8/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
8	MW8	1/10/90	160,000[4]	<6,000	NR	NR	NR	2,100	<1,000	<1,000	<1,000	<1,000	ND
9		12/10/90	47,000[4]	<150	3,200[4]	10,000[4]	130,000[4]	160	<25	<25	<25	<25	ND
10		9/5/91	150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000	<5,000	<5,000	<5,000	ND
12		5/20/93	100,000	<5,000	<10,000	<5,000	NR	<3,000	<3,000	<3,000	<3,000	<3,000	ND
12		8/25/93	48,000	<3,000	<5,000	<3,000	NR	<1,000	<1000	<1000	<1000	<1000	ND
12		11/18/93	840	<50	<100	<50	NR	<25	<25	<25	<25	<25	ND
12		2/25/94	14,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
12		4/21/94	19,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
12		5/11/94	140,000	<5,000	<10,000	<3,000	NR	<3,000	<3,000	<3,000	<3,000	<3,000	ND
		8/8/94	61,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
		2/9/95	62,000	<10	40	78	NR	64	<5	<5	<5	<5	7.9[5] ,10[6]
12	MW9	4/21/94	120	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
		8/8/94		<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
		2/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12	MW10	4/21/94	23	<10	<20	<10	NR	22	<5	<5	<5	<5	ND
		8/8/94		<10	<20	<10	NR	14	<5	<5	<5	<5	ND
		2/9/95	<10	<10	<20	<10	NR	6.6	<5	<5	<5	<5	3.2[6]

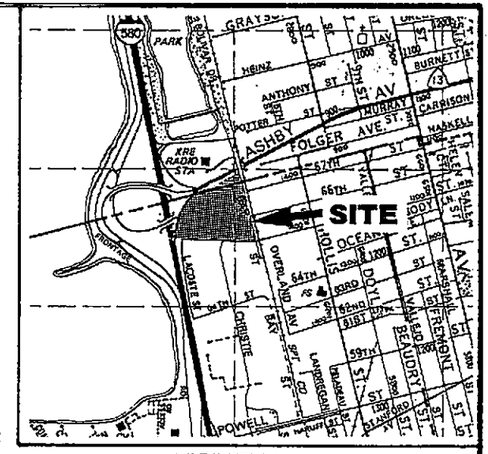
1 micrograms per liter
2 Not reported
3 Not detected at concentrations above the reporting limits
4 Tentatively identified compound concentrations
5 2-Hexanone
6 Chlorobenzene (Reporting Limit = 5.0 µg/l)

Table 3
Petroleum Hydrocarbon Concentrations in Groundwater

Reference No.	Date	Well	Total Recoverable Hydrocarbons (mg/l)	Oil and Grease (mg/l)	TEH (mg/l)	TVH (mg/l)
5	7/6/89	MW-1	--	--	<0.5	<0.5
5	9/7/89		--	<10	<0.5	<0.5
8	1/10/90		0.5	--	<10	<10
12	5/20/93		--	<5	--	--
12	8/25/93		--	<5	--	--
12	11/18/93		--	<5	--	--
12	2/25/94		--	<5	--	--
	8/8/94		--	--	<0.05	<0.05
	2/9/95		--	--	1.0**	<50
5	9/7/89	MW-3	--	<10	<0.5	<0.5
8	1/10/90		0.6	--	<10	<10
12	5/20/93		--	<5	--	--
12	8/25/93		--	<5	--	--
12	11/18/93		--	<5	--	--
12	2/25/94		--	<5	--	--
12	4/21/94		--	<5	0.43	0.06
	8/8/94		--	<5	1.2	<0.05
8	1/10/90	MW-8	103	--	<10	<10
9	12/10/90		10.5	--	--	--
12	5/20/94		--	<5	--	--
12	8/25/93		--	<5	--	--
12	11/18/93		--	14	--	--
12	2/25/94		--	<5	--	--
12	4/21/94		--	<5	2.8	5.9
	8/8/94		--	<5	3.6	7.2
	2/9/95		--	--	2.8**	9.1*
12	4/21/94	MW-9	--	<5	0.68	0.92
	8/8/94		--	<5	1.2	0.86
	2/9/95		--	--	0.730**	0.400*
12	4/21/94	MW-10	--	<5	2.1	0.68
	8/8/94		--	<5	4.4	0.61
	2/9/95		--	--	1.3**	0.150*

TEH = Total extractable hydrocarbons
TVH = Total volatile hydrocarbons
mg/l = milligrams per liter
-- = Test not requested
* = Sample chromatogram does not resemble gas standard
** = Sample chromatogram does not resemble diesel standard





VICINITY MAP

- MONITORING WELL BY SCI
- MONITORING WELL BY OTHERS
- GROUNDWATER EXTRACTION WELL BY OTHERS
- PROPERTY LINE
- EXISTING STRUCTURE
- GROUNDWATER ELEVATION CONTOUR (FEET) (MSL)

N

APPROXIMATE SCALE (feet)

0 100 200

SITE PLAN

Subsurface Consultants

6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	2/23/95	

PLATE 1

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 16-FEB-95
Lab Job Number: 119857
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: _____

Reviewed by: _____

This package may be reproduced only in its entirety.

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 02/09/95
DATE RECEIVED: 02/09/95
DATE ANALYZED: 02/09/95
DATE REPORTED: 02/16/95
BATCH NO: 18972

Total Volatile Hydrocarbons as Gasoline in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (ug/L)	REPORTING LIMIT (ug/L)
119857-001	MW-1	ND	50
119857-003	MW-9	400*	50
METHOD BLANK	N/A	ND	50

* Sample chromatogram does not resemble gas standard.

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: BS/BSD

RPD, %	3
RECOVERY, %	98

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 02/09/95
DATE RECEIVED: 02/09/95
DATE ANALYZED: 02/10,11/95
DATE REPORTED: 02/16/95
BATCH NO: 18997

Total Volatile Hydrocarbons as Gasoline in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (ug/L)	REPORTING LIMIT (ug/L)
119857-002	MW-8	9100*	100
119857-004	MW-10	150*	50
METHOD BLANK	N/A	ND	50

* Sample chromatogram does not resemble gas standard.

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: BS/BSD

RPD, %	5
RECOVERY, %	98

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 02/09/95
DATE RECEIVED: 02/09/95
DATE EXTRACTED: 02/13/95
DATE ANALYZED: 02/13/95
DATE REPORTED: 02/16/95
BATCH NO: 19027

Extractable Petroleum Hydrocarbons in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
119857-001	MW-1	**	1,000*	50
119857-002	MW-8	**	2,800*	50
119857-003	MW-9	**	730*	50
119857-004	MW-10	**	1,300*	50
METHOD BLANK	N/A	ND	ND	50

ND = Not detected at or above reporting limit. Reporting limit applies to all analytes.

* Sample chromatogram does not resemble diesel standard.

** Kerosene range not reported due to overlap of hydrocarbon ranges.

QA/QC SUMMARY: BS/BSD

RPD, %	11
RECOVERY, %	86

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857-001
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-1

DATE SAMPLED: 02/09/95
DATE RECEIVED: 02/09/95
DATE ANALYZED: 02/10/95
DATE REPORTED: 02/16/95
BATCH NO: 18995

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Vinyl acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethyl benzene	ND	5.0
Styrene	ND	5.0
Total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	93 %
Toluene-d8	95 %
Bromofluorobenzene	92 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857-002
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-8

DATE SAMPLED: 02/09/95
DATE RECEIVED: 02/09/95
DATE ANALYZED: 02/10/95
DATE REPORTED: 02/16/95
BATCH NO: 18995

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	40	20
Carbon disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	78	10
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Vinyl acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	64	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	Detected(7.9)	10
4-Methyl-2-pentanone	62,000	5,000 *
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	10	5.0
Ethyl benzene	ND	5.0
Styrene	ND	5.0
Total xylenes	ND	5.0

* Result obtained on 02/14/95 from a 1:500 dilution.
ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	96 %
Toluene-d8	86 %
Bromofluorobenzene	94 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: N/A

DATE ANALYZED: 02/10/95
DATE REPORTED: 02/16/95
BATCH NO: 18995

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Vinyl acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethyl benzene	ND	5.0
Styrene	ND	5.0
Total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	96 %
Toluene-d8	100 %
Bromofluorobenzene	91 %

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

8240 MS/MSD Report

Matrix Sample Number: 119857-001
Lab No: QC84924 QC84924
Matrix: WATER
Batch No: 18995 425041143007 425041150008 425041136006 Analyst: ATR

Date Analyzed: 10-FEB-95
Spike File: CBA07
Spike Dup File: CBA08

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	48.9904	50	98 %	61-145%
Trichloroethene	53.4883	50	107 %	71-120%
Benzene	50.7162	50	100 %	76-127%
Toluene	49.9898	50	100 %	76-125%
Chlorobenzene	51.2345	50	103 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	45.2053	50	90 %	75-143%
Toluene-d8	47.573	50	95 %	77-134%
Bromofluorobenzene	46.3343	50	93 %	65-129%
MSD RESULTS				
1,1-Dichloroethene	48.0888	50	96 %	61-145%
Trichloroethene	51.8626	50	104 %	71-120%
Benzene	48.7942	50	96 %	76-127%
Toluene	49.2731	50	99 %	76-125%
Chlorobenzene	51.0416	50	102 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	43.8486	50	88 %	75-143%
Toluene-d8	47.2987	50	95 %	77-134%
Bromofluorobenzene	46.3127	50	93 %	65-129%
MATRIX RESULTS				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	.7285			
Toluene	0			
Chlorobenzene	0			
RPD DATA				
1,1-Dichloroethene	2 %			< 14%
Trichloroethene	3 %			< 14%
Benzene	4 %			< 11%
Toluene	1 %			< 13%
Chlorobenzene	0 %			< 13%

Results within Specifications - PASS

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857-003
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-9

DATE SAMPLED: 02/09/95
DATE RECEIVED: 02/09/95
DATE ANALYZED: 02/14/95
DATE REPORTED: 02/16/95
BATCH NO: 19037

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Vinyl acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethyl benzene	ND	5.0
Styrene	ND	5.0
Total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	132 %
Toluene-d8	115 %
Bromofluorobenzene	114 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: N/A

DATE ANALYZED: 02/14/95
DATE REPORTED: 02/16/95
BATCH NO: 19037

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Vinyl acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethyl benzene	ND	5.0
Styrene	ND	5.0
Total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	110 %
Toluene-d8	116 %
Bromofluorobenzene	109 %

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

8240 MS/MSD Report

Matrix Sample Number: 119857-002 Date Analyzed: 14-FEB-95
Lab No: QC85151 QC85152 Spike File: DBE10
Matrix: WATER Spike Dup File: DBE11
Batch No: 19037 435045155010 435045161011 435045143008 Analyst: TW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	59.0555	50	118 %	61-145%
Trichloroethene	55.2819	50	111 %	71-120%
Benzene	56.9353	50	112 %	76-127%
Toluene	59.2328	50	119 %	76-125%
Chlorobenzene	57.0796	50	114 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	50.0415	50	100 %	75-143%
Toluene-d8	55.7496	50	111 %	77-134%
Bromofluorobenzene	52.2509	50	105 %	65-129%
MSD RESULTS				
1,1-Dichloroethene	60.9748	50	122 %	61-145%
Trichloroethene	56.3194	50	113 %	71-120%
Benzene	58.7472	50	116 %	76-127%
Toluene	60.9984	50	122 %	76-125%
Chlorobenzene	58.6399	50	117 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	51.6555	50	103 %	75-143%
Toluene-d8	56.1619	50	112 %	77-134%
Bromofluorobenzene	52.3092	50	105 %	65-129%
MATRIX RESULTS				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	1.0096			
Toluene	0			
Chlorobenzene	0			

RPD DATA		
1,1-Dichloroethene	3 %	< 14%
Trichloroethene	2 %	< 14%
Benzene	3 %	< 11%
Toluene	3 %	< 13%
Chlorobenzene	3 %	< 13%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857-004
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-10

DATE SAMPLED: 02/09/95
DATE RECEIVED: 02/09/95
DATE ANALYZED: 02/13/95
DATE REPORTED: 02/16/95
BATCH NO: 19032

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Vinyl acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	6.6	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	Detected(3.2)	5.0
Ethyl benzene	ND	5.0
Styrene	ND	5.0
Total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	111 %
Toluene-d8	103 %
Bromofluorobenzene	102 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 119857-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: N/A

DATE ANALYZED: 02/13/95
DATE REPORTED: 02/16/95
BATCH NO: 19032

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon tetrachloride	ND	5.0
Vinyl acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethyl benzene	ND	5.0
Styrene	ND	5.0
Total xylenes	ND	5.0

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107 %
Toluene-d8	103 %
Bromofluorobenzene	102 %

Curtis & Tompkins, Ltd

8240 MS/MSD Report

Curtis & Tompkins, Ltd.

Matrix Sample Number: 119857-004 Date Analyzed: 13-FEB-95
Lab No: QC85123 QC85124 Spike File: BBD10
Matrix: WATER Spike Dup File: BBD11
Batch No: 19032 415044216010 415044223011 415044209009 Analyst: TW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	58.6819	50	116 %	61-145%
Trichloroethene	55.383	50	109 %	71-120%
Benzene	64.3849	50	116 %	76-127%
Toluene	59.9683	50	119 %	76-125%
Chlorobenzene	61.0804	50	116 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	54.0847	50	108 %	76-114%
Toluene-d8	52.342	50	105 %	88-110%
Bromofluorobenzene	51.7774	50	104 %	86-115%
MSD RESULTS				
1,1-Dichloroethene	66.0779	50	131 %	61-145%
Trichloroethene	55.5301	50	110 %	71-120%
Benzene	66.1835	50	119 %	76-127%
Toluene	62.5349	50	124 %	76-125%
Chlorobenzene	61.0592	50	116 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	54.5033	50	109 %	76-114%
Toluene-d8	51.3056	50	103 %	88-110%
Bromofluorobenzene	51.5372	50	103 %	86-115%

MATRIX RESULTS	
1,1-Dichloroethene	.6489
Trichloroethene	.6686
Benzene	6.6051
Toluene	.5334
Chlorobenzene	3.1996

RPD DATA		
1,1-Dichloroethene	12 %	< 14%
Trichloroethene	0 %	< 14%
Benzene	3 %	< 11%
Toluene	4 %	< 13%
Chlorobenzene	0 %	< 13%

Results within Specifications - PASS

11985-7

CHAIN OF CUSTODY FORM

PAGE ____ OF ____

PROJECT NAME: 6707 BAY ST

JOB NUMBER: 820.001 LAB: CURTIS & TOMPKINS

PROJECT CONTACT: BILL RUDOLPH TURNAROUND: NORMAL

SAMPLED BY: COLE REQUESTED BY: FERNANDO VELEZ

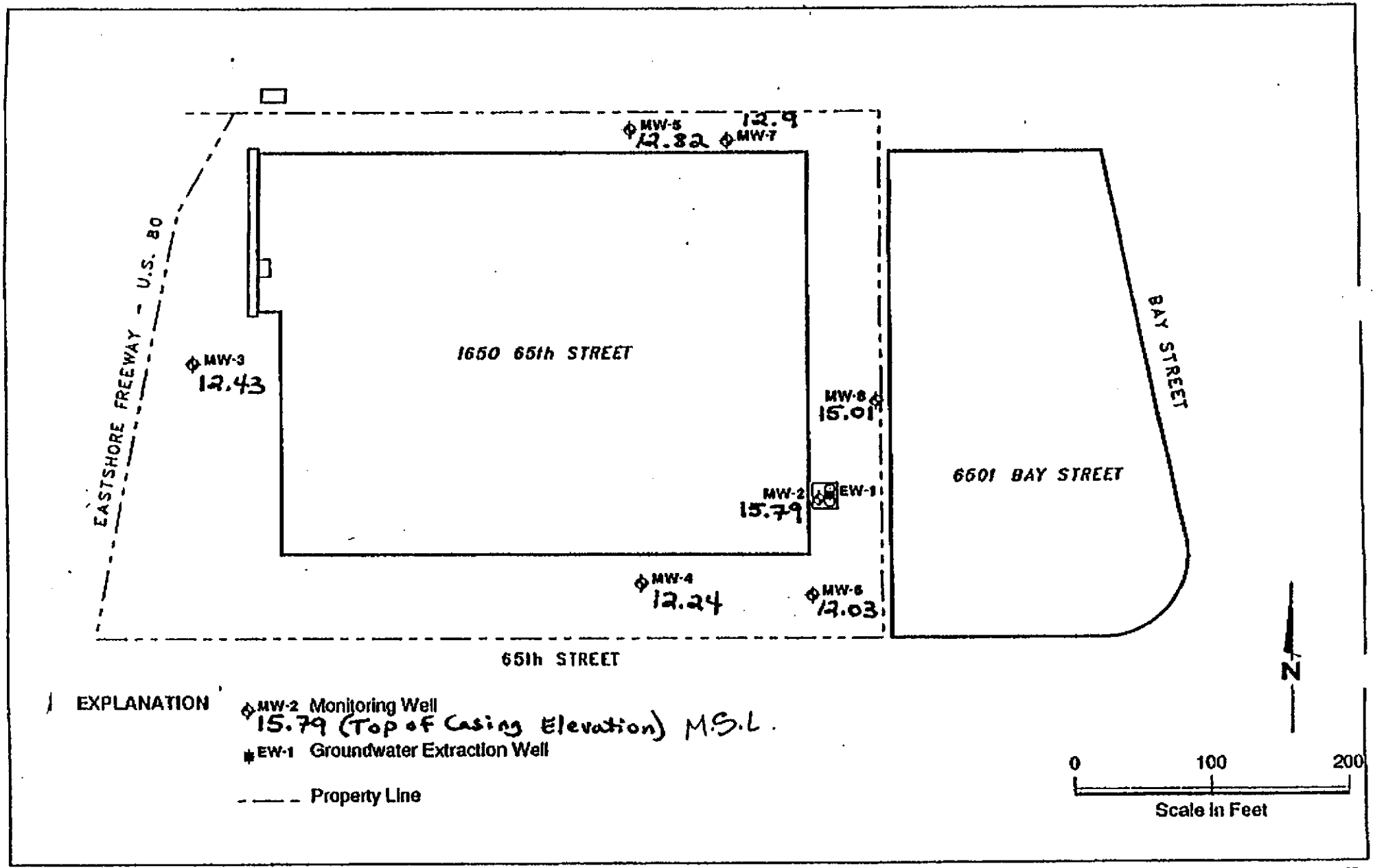
LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	SOIL	WASTE	AIR			CONTAINERS: VOA	LITER	PINT	TUBE			METHOD PRESERVED: HCL	H_2SO_4	HNO_3	ICE	NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME				NOTES	ANALYSIS REQUESTED: EPA 8240	EPA 8015/5030 GAS	EPA 8015/3550 DIESEL
-1	MW-1	X						4	1					X			X		02	09	95					X	X	X
-2	MW-8	X						4	1					X			X		02	09	95					X	X	X
-3	MW-9	X						4	1					X			X		02	09	95					X	X	X
-4	MW-10	X						4	1					X			X		02	09	95					X	X	X

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature] 2/9/95	12:30	Mary Pleasant 2/9/95	12 30 pm

COMMENTS & NOTES:

Subsurface Consultants, Inc.
171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607
(510) 268-0461 • FAX: 510-268-0137



PLATE

2

PES Environmental, Inc.
Engineering & Environmental Services

Well Location Map
1650 65th Street
Emeryville, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	REVISED DATE
131.01.003		12/94		

TOTAL P.03

PES Environmental, Inc.
Engineering & Environmental Services

PES ENVIRONMENTAL, INC.
TEL: (415) 899-1600

FAX: (415) 899-1601

TO: Fernando

COMPANY: Subsurface Consultants

FAX NO: (510) 268-0137

PHONE NO:

FROM: Mary Williams

JOB NO:

RE:

DATE: 2/14/95 TIME: 3:00 SENT BY: MW

NUMBER OF PAGES 1 (INCLUDING COVER SHEET) HARD COPY TO FOLLOW: YES ___ NO X

NOTES: Fernando - Water level ~~elevations~~ depths for wells at 1650 65th street are as follows:

EW-1	10.61' bgs	MW-7	5.57' bgs
MW-2	10.64' bgs	MW-8	10.23' bgs
MW-3	6.86' bgs		
MW-4	8.11' bgs		
MW-5	5.68' bgs		
MW-6	7.66' bgs		

Please call if you have any questions. Mary

IF THIS TRANSMITTAL HAS BEEN RECEIVED IN ERROR
PLEASE CONTACT
PES ENVIRONMENTAL AT YOUR EARLIEST CONVENIENCE (415) 899-1600

GROUNDWATER DEPTHS

Project Name: 6707 BAY ST

Job No.: 820.001

Measured by: CODen

Well	Date	Time	Groundwater Depth (feet)	Comments
1	2/9/95	8:55	7.48	
3	2/9/95	8:15	7.85	
5	2/9/95	8:45	10.08	
6	2/9/95	8:40	6.95	
7	2/9/95	8:50	10.70	
8	2/9/95	8:30	7.85	
9	2/9/95	8:25	7.55	
10	2/9/95	8:20	7.10	

WELL SAMPLING FORM

Project Name: 6707 BAY ST
Well Number: MW-1
Job No.: 820.001
Well Casing Diameter: 4 inch
Sampled By: CDL
Date: 2/9/95
TOC Elevation:
Weather: Clear

Depth to Casing Bottom (below TOC) feet
Depth to Groundwater (below TOC) feet
Feet of Water in Well feet
Depth to Groundwater When 80% Recovered feet
Casing Volume (feet of water x Casing DIA ^{2} x 0.0408) gallons
Depth Measurement Method Tape & Paste / (Electronic Sounder) Other
Free Product NONE
Purge Method teflon bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
5	6.12	56.1	1680		
10	6.31	56.3	1560		
15	6.36	56.6	1580		
20	6.35	56.3	1510		
25	6.36	56.2	1530		

Total Gallons Purged 25 gallons
Depth to Groundwater Before Sampling (below TOC) feet
Sampling Method teflon bailer
Containers Used 4 (40 ml) 1 (liter) (pint)

Subsurface Consultants

JOB NUMBER DATE APPROVED PLATE

WELL SAMPLING FORM

Project Name: 6707 BAY ST Well Number: MW-8

Job No.: 820.001 Well Casing Diameter: 4 inch

Sampled By: PADen Date: 2/9/95

TOC Elevation: _____ Weather: Clear

Depth to Casing Bottom (below TOC) _____ feet

Depth to Groundwater (below TOC) _____ feet

Feet of Water in Well _____ feet

Depth to Groundwater When 80% Recovered _____ feet

Casing Volume (feet of water x Casing DIA ^{2} x 0.0408) _____ gallons

Depth Measurement Method Tape & Paste / (Electronic Sounder) / Other

Free Product /

Purge Method Teflon Bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
5	6.61	59.9	2430		
10	6.65	60.5	2590		
15	6.64	60.1	2500		
20	6.67	60.2	2490		
25	6.63	59.8	2510		

Total Gallons Purged 25 gallons

Depth to Groundwater Before Sampling (below TOC) _____ feet

Sampling Method _____

Containers Used 4 (40 ml) / 1 (liter) / _____ (pint)

Subsurface Consultants	JOB NUMBER	DATE	APPROVED	PLATE

WELL SAMPLING FORM

Project Name: 6707 BAY ST Well Number: MW-9

Job No.: 820.001 Well Casing Diameter: 2 inch

Sampled By: AD Dew Date: 7/9/95

TOC Elevation: _____ Weather: Clear

Depth to Casing Bottom (below TOC) _____ feet

Depth to Groundwater (below TOC) _____ feet

Feet of Water in Well _____ feet

Depth to Groundwater When 80% Recovered _____ feet

Casing Volume (feet of water x Casing DIA ² x 0.0408) _____ gallons

Depth Measurement Method Tape & Paste / (Electronic Sounder) / Other

Free Product none

Purge Method Teflon bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
1	6.44	57.4	1700		
2	6.47	57.6	1730		
3	6.52	57.6	1770		
4	6.43	57.5	1790		
5	6.44	57.7	1770		

Total Gallons Purged 5 gallons

Depth to Groundwater Before Sampling (below TOC) _____ feet

Sampling Method Teflon Bailer

Containers Used 4 (40 ml) 1 (liter) _____ (pint)

Subsurface Consultants

JOB NUMBER DATE APPROVED PLATE

WELL SAMPLING FORM

Project Name: 6707 BAY ST Well Number: MW-10

Job No.: 820.001 Well Casing Diameter: 2 inch

Sampled By: MDeen Date: 2/9/05

TOC Elevation: _____ Weather: Clear

Depth to Casing Bottom (below TOC) _____ feet

Depth to Groundwater (below TOC) _____ feet

Feet of Water in Well _____ feet

Depth to Groundwater When 80% Recovered _____ feet

Casing Volume (feet of water x Casing DIA ^{2} x 0.0408) _____ gallons

Depth Measurement Method: Tape & Paste / Electronic Sounder / Other

Free Product: none

Purge Method: teflon bailer

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°c)	Conductivity (micromhos/cm)	Salinity S%	Comments
1	6.57	59.9	1630		
2	6.69	60.3	1570		
3	6.70	60.8	1540		
4	6.69	60.2	1570		
5	6.71	60.1	1530		

Total Gallons Purged 5 gallons

Depth to Groundwater Before Sampling (below TOC) _____ feet

Sampling Method: teflon bailer

Containers Used: 4 (40 ml) / 1 (liter) / _____ (pint)

Subsurface Consultants

JOB NUMBER DATE APPROVED PLATE

R. William Rudolph, Jr., PE
Thomas E. Cundey, PE
Jeriann N. Alexander, PE

December 15, 1995
SCI 820.001

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94501

Groundwater Monitoring
November 1995 Event
6707 Bay Street
Emeryville, California

Dear Ms. Hugo:

This letter records the results of a groundwater monitoring event performed by Subsurface Consultants, Inc. (SCI) at the referenced site in November 1995. Three underground tanks which previously stored methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Studies conducted following tank removal indicated that soil and groundwater adjacent to the previous tanks had been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation until early 1991. Since 1991, no additional remediation has been performed. SCI implemented groundwater monitoring on a quarterly basis from May 1993 to August 1994. As requested, semi-annual monitoring resumed in May 1995. Monitoring well locations are shown on the attached Site Plan, Plate 1.

Groundwater Level Measurements

This sampling event was performed simultaneously with an event performed at the adjacent site by PES Environmental Inc. Prior to sampling, water levels were measured in the on-site wells. The groundwater level measurements for both the site and adjacent property are presented in Table 1. Groundwater surface contours for this event are presented on Plate 1.

Subsurface Consultants, Inc.
171 12th Street • Suite 201 • Oakland, California 94607 • Telephone 510-268-0461 • FAX 510-268-0137

Sampling and Analysis

For this event, on-site Wells MW-1, MW-8, MW-9 and MW-10 were sampled. The wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 3 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

After the wells had recharged to within 80 percent of their initial volume they were sampled using a pre-cleaned sampling device. The water samples were retained in pre-cleaned containers, placed in an iced cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the test performed. The samples were analytically tested for the following:

1. Volatile organic chemicals (VOC) - EPA 8240,

2. Total volatile hydrocarbons (TVH) - EPA 8015/5030, and

3. Total extractable hydrocarbons (TEH) - EPA 8015/3550.

A summary of the current and previous analytical test results are presented in Tables 2 and 3. Analytical test reports and Chain-of-Custody documents are attached for the on-site well event.

Conclusions

The groundwater level data indicate that the general groundwater flow direction is toward the south-southwest at a gradient of approximately 1.0 percent. Locally near the former tank area at 6707 Bay Street the gradient is toward the west. Water levels are approximately 1.5 feet lower than levels recorded during the May 1995 event.

Benzene was detected in wells MW-8 and MW-10 at 63 and 31 ug/l respectively. 4-methyl-2 pentanone was detected in well MW-8 at 85,000 ug/l which is consistent with previous events. No VOC were detected in well MW-1 nor MW-9. Wells MW-8, MW-9 and MW-10 detected the presence of TEH ranging from 0.34 to 2.2 mg/l and TVH ranging from 0.43 to 16 mg/l; however, the compounds identified do not exhibit typical diesel and gas chromatograph standards.

Ongoing Monitoring

In accordance with the monitoring program, wells MW-1, MW-8, MW-9 and MW-10 will be sampled during the month of May 1996. SCI will coordinate the sampling date with the neighboring site.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

R. William Rudolph
Geotechnical Engineer 741 (expires 12/31/96)

FV:RWR:sld

Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Volatile Organic Chemical Concentrations in Groundwater
Table 3 - Petroleum Hydrocarbon Concentrations in Groundwater
Plate 1 - Site Plan
Analytical Test Reports
Chain-of-Custody Records
Groundwater Sampling Forms

cc: Maureen Bennett - Graham & James
James McClay, Scenic Art - MRCP

Table 1
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
SCI MW-1	9/7/89	20.61	11.60	9.01
	5/20/93		10.25	10.36
	6/4/93		11.45	9.16
	8/25/93		11.20	9.41
	11/18/93		11.65	8.96
	2/25/94		10.04	10.57
	4/20/94		10.54	10.07
	4/22/94		10.56	10.05
	4/26/94	20.39	10.38	10.01
	8/8/94		11.02	9.37
	2/9/95		7.48	12.91
	5/9/95		8.92	11.47
	11/13/95		11.25	9.14
SCI MW-3	9/7/89	20.09	9.83	10.26
	5/20/93		8.55	11.54
	6/4/93		9.36	10.73
	8/25/93		9.42	10.67
	11/18/93		10.03	10.06
	2/25/94		7.29	12.80
	4/20/94		8.56	11.53
	4/22/94		8.65	11.44
	4/26/94		8.21	11.88
	8/8/94		9.31	10.78
	2/9/95		7.15	12.94
	5/9/95		7.90	12.19
	11/13/95		9.40	10.69
SCI MW-5	9/7/89	18.06	10.27	7.79
	4/22/94		9.26	8.80
	4/26/94		9.24	8.82
	8/8/94		9.96	8.10
	2/9/95		6.68	11.38
	5/9/95		7.12	10.94
	11/13/95		9.65	8.41
SCI MW-7	6/4/93	20.36	12.67	7.69
	8/25/93		12.44	7.92
	11/18/93		13.13	7.23
	2/25/94		11.80	8.56
	4/20/94		12.21	8.15
	4/22/94		12.26	8.10
	4/26/94		12.21	8.15
	8/8/94		12.65	7.71
	2/9/95		10.20	10.16
	5/9/95		10.55	9.81
	11/13/95		12.65	7.71

Table 1
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
SCI MW-8	5/20/93	20.72	9.55	11.17
	6/4/93		10.81	9.91
	8/25/93		10.93	9.79
	11/18/93		11.72	9.00
	2/25/94		9.05	11.67
	4/20/94		10.18	10.54
	4/22/94		10.48	10.24
	4/26/94		10.13	10.59
	8/8/94		10.99	9.73
	2/9/95		7.85	12.87
	5/9/95		9.05	11.67
	11/13/95		11.00	9.72
SCI MW-9	4/20/94	20.69	10.26	10.43
	4/22/94		10.31	10.38
	4/26/94		10.26	10.43
	8/8/94		11.24	9.45
	2/9/95		7.55	13.14
	5/9/95		8.88	11.81
	11/13/95		10.46	10.23
SCI MW-10	4/20/94	20.42	10.72	9.70
	4/22/94		10.73	9.69
	4/26/94		10.72	9.70
	8/8/94		11.60	8.82
	2/9/95		7.10	13.32
	5/9/95		8.70	11.72
	11/13/95		11.70	8.72
PES MW-2	2/9/95	15.79	10.64	5.15
	5/9/95		10.60	5.19
	11/13/95		11.18	4.61
PES MW-3	2/9/95	12.43	6.86	5.57
	5/9/95		7.16	5.27
	11/13/95		8.44	3.99
PES MW-4	2/9/95	12.24	8.11	4.13
	5/9/95		7.76	4.48
	11/13/95		7.95	4.29
PES MW-5	2/9/95	12.82	5.68	7.14
	5/9/95		5.36	7.46
	11/13/95		6.89	5.93
PES MW-6	2/9/95	12.03	7.66	4.37
	5/9/95		8.57	3.46
	11/13/95		8.15	3.88

Table 1
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
PES MW-7	2/9/95	12.90	7.57	5.33
	5/9/95		5.15	7.75
	11/13/95		5.98	6.92
PES MW-8	2/9/95	15.01	10.23	4.78
	5/9/95		10.48	4.53
	11/13/95		11.02	3.99

Reference Elevation: MSL

Table 2
Volatile Organic Chemical Concentrations in Groundwater

Well	Date	4-Methyl-2 Pentanone (µg/l)[1]	Vinyl Chloride (µg/l)	Acetone (µg/l)	2-Butanone (µg/l)	4-Methyl-2 Pentanol (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl benzene (µg/l)	Xylene (µg/l)	Trans-1,2 Dichloro-ethene (µg/l)	Other EPA 8240 Compounds (µg/l)
Sump-Well	8/21/89	<20	<4	<20	<20	NR[2]	<2	<2	<3	<3	<3	ND[3]
MW1	7/6/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
	9/7/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
	1/10/90	NR	<30	NR	NR	NR	<5	<5	<5	<5	<5	ND
	9/5/91	<10	<10	<20	<20	NR	7	8	<5	3	<5	ND
	5/20/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	8/25/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	11/18/93	<10	<10	<40	<10	NR	<5	<5	<5	<5	<5	ND
	2/25/94	<10	<10	<10	<10	NR	<5	<5	<5	<5	<5	ND
	8/8/94	<10	<10	<10	<10	NR	<5	<5	<5	<5	<5	ND
	2/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	5/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	11/13/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
MW3	9/7/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
	1/10/90	NR	<30	NR	NR	NR	<5	<5	<5	<5	<5	ND
	9/5/91	<10	<10	<20	<20	NR	<5	<5	<5	<5	<5	ND
	5/20/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	8/25/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	11/18/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	2/25/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	8/8/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
MW8	1/10/90	160,000[4]	<6,000	NR	NR	NR	2,100	<1,000	<1,000	<1,000	<1,000	ND
	12/10/90	47,000[4]	<150	3,200[4]	10,000[4]	130,000[4]	160	<25	<25	<25	<25	ND
	9/5/91	150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000	<5,000	<5,000	<5,000	ND
	5/20/93	100,000	<5,000	<10,000	<5,000	NR	<3,000	<3,000	<3,000	<3,000	<3,000	ND
	8/25/93	48,000	<3,000	<5,000	<3,000	NR	<1,000	<1000	<1000	<1000	<1000	ND
	11/18/93	840	<50	<100	<50	NR	<25	<25	<25	<25	<25	ND
	2/25/94	14,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
	4/21/94	19,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
	5/11/94	140,000	<5,000	<10,000	<3,000	NR	<3,000	<3,000	<3,000	<3,000	<3,000	ND
	8/8/94	61,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
	2/9/95	62,000	<10	40	78	NR	64	<5	<5	<5	<5	7.9[5],10[6]
	5/9/95	<10	<10	<20	<10	NR	69	<5	<5	<5	<5	11[6]
	11/13/95	85,000	<100	<200	<100	NR	63	<50	<50	<50	<50	ND
MW9	4/21/94	120	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	8/8/94		<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	2/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	5/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	11/13/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND

QRTMTG2A

Table 2
Volatile Organic Chemical Concentrations in Groundwater

Well	Date	4-Methyl-2 Pentanone (µg/l)[1]	Vinyl Chloride (µg/l)	Acetone (µg/l)	2-Butanone (µg/l)	4-Methyl-2 Pentanol (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl benzene (µg/l)	Xylene (µg/l)	Trans-1,2 Dichloro-ethene (µg/l)	Other EPA 8240 Compounds (µg/l)
MW10	4/21/94	23	<10	<20	<10	NR	22	<5	<5	<5	<5	ND
	8/8/94		<10	<20	<10	NR	14	<5	<5	<5	<5	ND
	2/9/95	<10	<10	<20	<10	NR	6.6	<5	<5	<5	<5	3.2[6]
	5/9/95	<10	<10	<20	<10	NR	12	<5	<5	<5	<5	3.0[6], 3.0[7]
	11/13/95	<10	<10	<20	<10	NR	31	<5	<5	<5	<5	ND

1 micrograms per liter
2 Not reported
3 Not detected at concentrations above the reporting limits
4 Tentatively identified compound concentrations
5 2-Hexanone (reporting limit = 10 ug/l)
6 Chlorobenzene (Reporting Limit = 5.0 µg/l)
7 Carbon Disulfide (Reporting Limit = 5.0 ug/l)

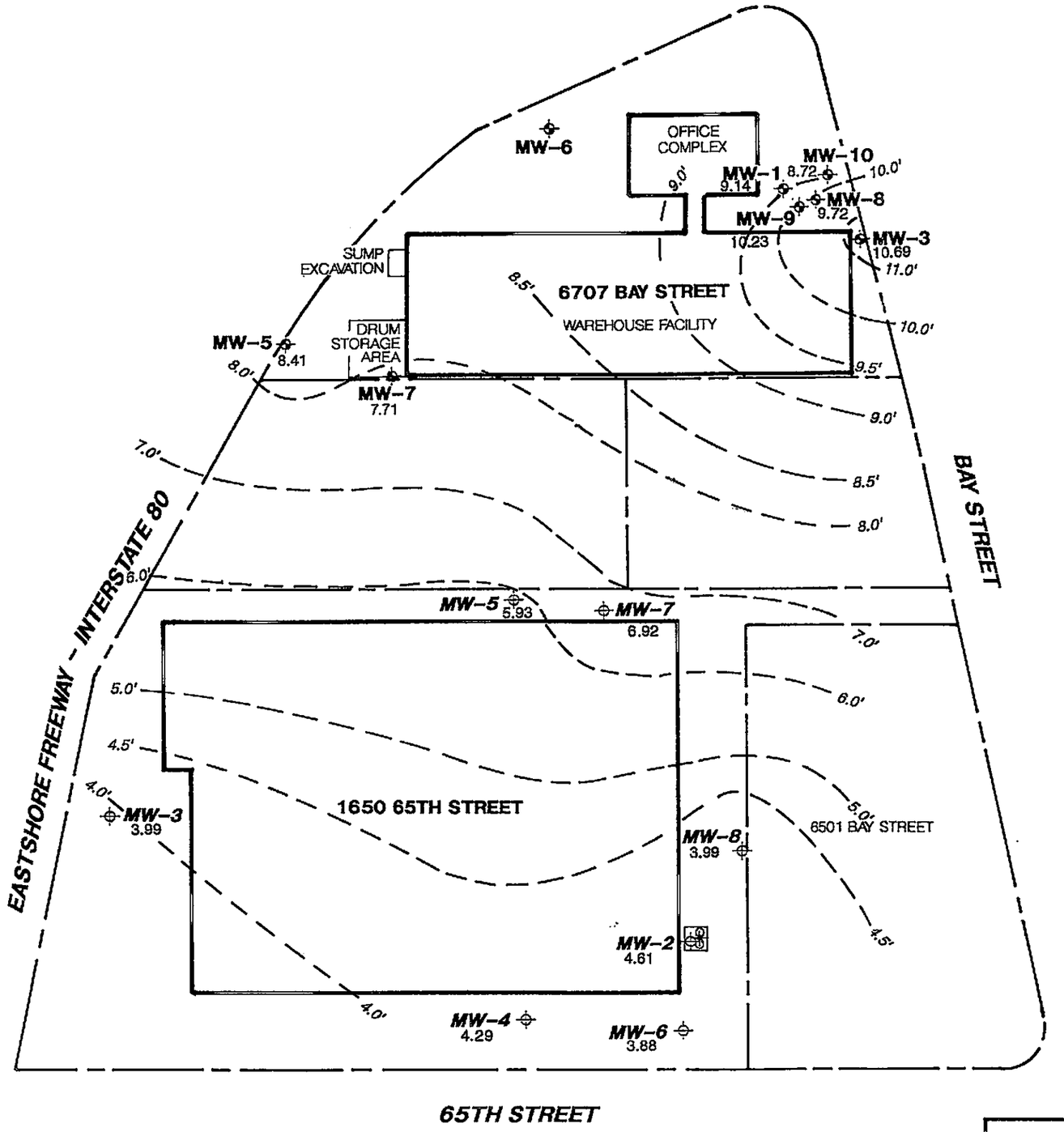
Table 3
Petroleum Hydrocarbon Concentrations in Groundwater

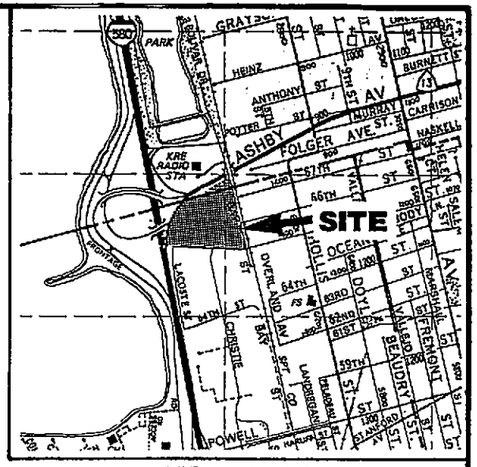
Date	Well	Total Recoverable Hydrocarbons (mg/l)	Oil and Grease (mg/l)	TEH (mg/l)	TVH (mg/l)
7/6/89	MW-1	--	--	<0.5	<0.5
9/7/89		--	<10	<0.5	<0.5
1/10/90		0.5	--	<10	<10
5/20/93		--	<5	--	--
8/25/93		--	<5	--	--
11/18/93		--	<5	--	--
2/25/94		--	<5	--	--
8/8/94		--	--	<0.05	<0.05
2/9/95		--	--	1.0**	<0.05
5/9/95		--	--	1.2**	0.95*
11/13/95		--	--	<0.05	<0.05
9/7/89	MW-3	--	<10	<0.5	<0.5
1/10/90		0.6	--	<10	<10
5/20/93		--	<5	--	--
8/25/93		--	<5	--	--
11/18/93		--	<5	--	--
2/25/94		--	<5	--	--
4/21/94		--	<5	0.43	0.06
8/8/94		--	<5	1.2	<0.05
1/10/90	MW-8	103	--	<10	<10
12/10/90		10.5	--	--	--
5/20/94		--	<5	--	--
8/25/93		--	<5	--	--
11/18/93		--	14	--	--
2/25/94		--	<5	--	--
4/21/94		--	<5	2.8	5.9
8/8/94		--	<5	3.6	7.2
2/9/95		--	--	2.8**	9.1*
5/9/95		--	--	4.9**	0.95*
11/13/95		--	--	1.9**	16*
4/21/94	MW-9	--	<5	0.68	0.92
8/8/94		--	<5	1.2	0.86
2/9/95		--	--	0.730**	0.400*
5/9/95			--	0.900**	0.440*
11/13/95		--	--	0.340**	0.430*
4/21/94	MW-10	--	<5	2.1	0.68
8/8/94		--	<5	4.4	0.61
2/9/95		--	--	1.3**	0.150*
5/9/95		--	--	2.8**	0.280*
11/13/95		--	--	2.2**	0.660*

-- = Test not requested

* = Sample chromatogram does not resemble gas standard

** = Sample chromatogram does not resemble diesel standard





VICINITY MAP

- MONITORING WELL BY SCI
- MONITORING WELL BY OTHERS
- GROUNDWATER EXTRACTION WELL BY OTHERS
- PROPERTY LINE
- EXISTING STRUCTURE
- GROUNDWATER ELEVATION CONTOUR (FEET) MSL - NOVEMBER 13, 1995

N

APPROXIMATE SCALE (feet)

0 100 200

SITE PLAN

Subsurface Consultants

6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	12/6/95	

PLATE 1

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 21-NOV-95
Lab Job Number: 123371
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: _____

Reviewed by: _____

This package may be reproduced only in its entirety.

TVH-Total Volatile Hydrocarbons

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123371-001	MW-1	24386	11/13/95	11/14/95	11/14/95	
123371-002	MW-8	24386	11/13/95	11/14/95	11/14/95	
123371-003	MW-9	24386	11/13/95	11/14/95	11/14/95	
123371-004	MW-10	24386	11/13/95	11/14/95	11/14/95	

Analyte Diln Fac:	Units	123371-001 1	123371-002 2	123371-003 1	123371-004 1
Gasoline	ug/L	<50	16000 Y	430 Y	660 Y
Surrogate					
Trifluorotoluene	%REC	101	99	103	105
Bromobenzene	%REC	96	77	97	98

Y: Sample exhibits fuel pattern which does not resemble standard

Curtis & Tompkins, Ltd.

Lab #: 123371 BATCH QC REPORT

TVH-Total Volatile Hydrocarbons	
Client: Subsurface Consultants	Analysis Method: CA LUFT (EPA 8015M)
Project#: 820.001	Prep Method: EPA 5030
Location: 6707 Bay St.	

METHOD BLANK	
Matrix: Water	Prep Date: 11/14/95
Batch#: 24386	Analysis Date: 11/14/95
Units: ug/L	
Diln Fac: 1	

MB Lab ID: QC08972

Analyte	Result	
Gasoline	<50	
Surrogate	%Rec	Recovery Limits
Trifluorotoluene	101	65-135
Bromobenzene	96	65-135

Curtis & Tompkins, Ltd.

Lab #: 123371 BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client:	Subsurface Consultants	Analysis Method:	CA LUFT (EPA 8015M)
Project#:	820.001	Prep Method:	EPA 5030
Location:	6707 Bay St.		

LABORATORY CONTROL SAMPLE

Matrix:	Water	Prep Date:	11/14/95
Batch#:	24386	Analysis Date:	11/14/95
Units:	ug/L		
Diln Fac:	1		

LCS Lab ID: QC08971

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline	1921	2006	96	75-125
Surrogate	**%Rec**	**Limits**		
Trifluorotoluene	92	65-135		
Bromobenzene	100	65-135		

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

Curtis & Tompkins, Ltd.

Lab #: 123371

BATCH QC REPORT

TVH-Total Volatile Hydrocarbons

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 123393-002
Matrix: Water
Batch#: 24386
Units: ug/L
Diln Fac: 1

Sample Date: 11/13/95
Received Date: 11/13/95
Prep Date: 11/14/95
Analysis Date: 11/14/95

MS Lab ID: QC08973

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline	2006	<50.00	2008	100	75-125
Surrogate	**%Rec**	**Limits**			
Trifluorotoluene	91	65-135			
Bromobenzene	99	65-135			

MSD Lab ID: QC08974

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline	2006	2013	100	75-125	0	<35
Surrogate	**%Rec**	**Limits**				
Trifluorotoluene	92	65-135				
Bromobenzene	100	65-135				

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Volatile Organics by GC/MS

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

Field ID: MW-1
Lab ID: 123371-001
Matrix: Water
Batch#: 24367
Units: ug/L
Diln Fac: 1

Sampled: 11/13/95
Received: 11/13/95
Extracted: 11/14/95
Analyzed: 11/14/95

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	20
Acetone	ND	20
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Vinyl Acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-Pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%Recovery	Recovery Limits
Toluene-d8	108	87-125
Bromofluorobenzene	95	79-122
1,2-Dichloroethane-d4	86	68-126

Volatile Organics by GC/MS

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

Field ID: MW-8
Lab ID: 123371-002
Matrix: Water
Batch#: 24367
Units: ug/L
Diln Fac: 10

Sampled: 11/13/95
Received: 11/13/95
Extracted: 11/14/95
Analyzed: 11/14/95

Analyte	Result	Reporting Limit
Chloromethane	ND	100
Bromomethane	ND	100
Vinyl Chloride	ND	100
Chloroethane	ND	100
Methylene Chloride	ND	200
Acetone	ND	200
Carbon Disulfide	ND	50
Trichlorofluoromethane	ND	50
1,1-Dichloroethene	ND	50
1,1-Dichloroethane	ND	50
trans-1,2-Dichloroethene	ND	50
cis-1,2-Dichloroethene	ND	50
Chloroform	ND	50
Freon 113	ND	50
1,2-Dichloroethane	ND	50
2-Butanone	ND	100
1,1,1-Trichloroethane	ND	50
Carbon Tetrachloride	ND	50
Vinyl Acetate	ND	500
Bromodichloromethane	ND	50
1,2-Dichloropropane	ND	50
cis-1,3-Dichloropropene	ND	50
Trichloroethene	ND	50
Dibromochloromethane	ND	50
1,1,2-Trichloroethane	ND	50
Benzene	63	50
trans-1,3-Dichloropropene	ND	50
Bromoform	ND	50
2-Hexanone	ND	100
4-Methyl-2-Pentanone	85000	5000
1,1,2,2-Tetrachloroethane	ND	50
Tetrachloroethene	ND	50
Toluene	ND	50
Chlorobenzene	ND	50
Ethylbenzene	ND	50
Styrene	ND	50
m,p-Xylenes	ND	50
o-Xylene	ND	50

Surrogate	%Recovery	Recovery Limits
Toluene-d8	110	87-125
Bromofluorobenzene	95	79-122
1,2-Dichloroethane-d4	82	68-126

Volatile Organics by GC/MS

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

Field ID: MW-9
Lab ID: 123371-003
Matrix: Water
Batch#: 24396
Units: ug/L
Diln Fac: 1

Sampled: 11/13/95
Received: 11/13/95
Extracted: 11/15/95
Analyzed: 11/15/95

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	20
Acetone	ND	20
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Vinyl Acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-Pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%Recovery	Recovery Limits
Toluene-d8	107	87-125
Bromofluorobenzene	95	79-122
1,2-Dichloroethane-d4	88	68-126

Volatile Organics by GC/MS

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

Field ID: MW-10
Lab ID: 123371-004
Matrix: Water
Batch#: 24367
Units: ug/L
Diln Fac: 1

Sampled: 11/13/95
Received: 11/13/95
Extracted: 11/14/95
Analyzed: 11/14/95

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	20
Acetone	ND	20
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Vinyl Acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	31	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-Pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%Recovery	Recovery Limits
Toluene-d8	107	87-125
Bromofluorobenzene	97	79-122
1,2-Dichloroethane-d4	86	68-126

Curtis & Tompkins, Ltd.

Lab #: 123371 BATCH QC REPORT

EPA 8240 Volatile Organics

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 24367
Units: ug/L
Diln Fac: 1

Prep Date: 11/14/95
Analysis Date: 11/14/95

MB Lab ID: QC08879

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	20
Acetone	ND	20
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Vinyl Acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-Pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%Rec	Recovery Limits
Toluene-d8	108	87-125
Bromofluorobenzene	95	79-122
1,2-Dichloroethane-d4	84	68-126

Curtis & Tompkins, Ltd.

Lab #: 123371 BATCH QC REPORT

EPA 8240 Volatile Organics

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 24396
Units: ug/L
Diln Fac: 1

Prep Date: 11/15/95
Analysis Date: 11/15/95

MB Lab ID: QC08993

Analyte	Result	Reporting Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	20
Acetone	ND	20
Carbon Disulfide	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
Freon 113	ND	5.0
1,2-Dichloroethane	ND	5.0
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	5.0
Vinyl Acetate	ND	50
Bromodichloromethane	ND	5.0
1,2-Dichloropropane	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
Benzene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	5.0
2-Hexanone	ND	10
4-Methyl-2-Pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	5.0
Styrene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%Rec	Recovery Limits
Toluene-d8	108	87-125
Bromofluorobenzene	97	79-122
1,2-Dichloroethane-d4	79	68-126

NM: Not meaningful

Curtis & Tompkins, Ltd.

Lab #: 123371

BATCH QC REPORT

EPA 8240 Volatile Organics

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
Batch#: 24367
Units: ug/L
Diln Fac: 1

Prep Date: 11/14/95
Analysis Date: 11/14/95

LCS Lab ID: QC08878

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	43.55	50	87	51-180
Trichloroethene	50.37	50	101	73-141
Benzene	52.59	50	105	78-142
Toluene	55.41	50	111	76-150
Chlorobenzene	48.15	50	96	83-129

Surrogate	%Rec	Limits
Toluene-d8	107	87-125
Bromofluorobenzene	96	79-122
1,2-Dichloroethane-d4	84	68-126

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 5 outside limits

Curtis & Tompkins, Ltd.

Lab #: 123371 BATCH QC REPORT

EPA 8240 Volatile Organics

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: MW-1
Lab ID: 123371-001
Matrix: Water
Batch#: 24367
Units: ug/L
Diln Fac: 1

Sample Date: 11/13/95
Received Date: 11/13/95
Prep Date: 11/14/95
Analysis Date: 11/14/95

MS Lab ID: QC08938

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	50	<5.000	44.16	88	51-180
Trichloroethene	50	<5.000	50.79	102	73-141
Benzene	50	<5.000	53.72	104	78-142
Toluene	50	<5.000	55.57	110	76-150
Chlorobenzene	50	<5.000	48.73	98	83-129

Surrogate	%Rec	Limits
Toluene-d8	107	87-125
Bromofluorobenzene	96	79-122
1,2-Dichloroethane-d4	88	68-126

MSD Lab ID: QC08939

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	50	43.12	86	51-180	2	<14
Trichloroethene	50	50.83	102	73-141	0	<14
Benzene	50	53.39	104	78-142	1	<11
Toluene	50	55.29	110	76-150	0	<13
Chlorobenzene	50	48.24	97	83-129	1	<13

Surrogate	%Rec	Limits
Toluene-d8	107	87-125
Bromofluorobenzene	96	79-122
1,2-Dichloroethane-d4	87	68-126

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Curtis & Tompkins, Ltd.

Lab #: 123371

BATCH QC REPORT

EPA 8240 Volatile Organics

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
Batch#: 24396
Units: ug/L
Diln Fac: 1

Prep Date: 11/15/95
Analysis Date: 11/15/95

LCS Lab ID: QC08992

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	43.53	50	87	51-180
Trichloroethene	50.17	50	100	73-141
Benzene	52.8	50	106	78-142
Toluene	55.1	50	110	76-150
Chlorobenzene	48.56	50	97	83-129

Surrogate	%Rec	Limits
Toluene-d8	105	87-125
Bromofluorobenzene	96	79-122
1,2-Dichloroethane-d4	81	68-126

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 5 outside limits

Curtis & Tompkins, Ltd.

Lab #: 123371

BATCH QC REPORT

EPA 8240 Volatile Organics

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: EPA 8240
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: MW-9
Lab ID: 123371-003
Matrix: Water
Batch#: 24396
Units: ug/L
Diln Fac: 1

Sample Date: 11/13/95
Received Date: 11/13/95
Prep Date: 11/15/95
Analysis Date: 11/15/95

MS Lab ID: QC09006

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	50	<5.000	42.69	85	51-180
Trichloroethene	50	<5.000	51.23	102	73-141
Benzene	50	<5.000	52.65	104	78-142
Toluene	50	<5.000	56.63	113	76-150
Chlorobenzene	50	<5.000	48.87	97	83-129

Surrogate	%Rec	Limits
Toluene-d8	108	87-125
Bromofluorobenzene	95	79-122
1,2-Dichloroethane-d4	88	68-126

MSD Lab ID: QC09007

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	50	40.35	81	51-180	6	<14
Trichloroethene	50	50.43	101	73-141	2	<14
Benzene	50	51.78	102	78-142	2	<11
Toluene	50	54.39	108	76-150	4	<13
Chlorobenzene	50	48.1	96	83-129	2	<13

Surrogate	%Rec	Limits
Toluene-d8	107	87-125
Bromofluorobenzene	97	79-122
1,2-Dichloroethane-d4	86	68-126

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

TEH-Tot Ext Hydrocarbons

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
123371-001	MW-1	24391	11/13/95	11/14/95	11/18/95	
123371-002	MW-8	24391	11/13/95	11/14/95	11/18/95	
123371-003	MW-9	24391	11/13/95	11/14/95	11/18/95	
123371-004	MW-10	24391	11/13/95	11/14/95	11/18/95	

Analyte Diln Fac:	Units	123371-001 1	123371-002 1	123371-003 1	123371-004 1
Diesel Range	ug/L	<50	1900 YH	340 YH	2200 YHZ
Surrogate					
Hexacosane	%REC	98	93	98	100

Y: Sample exhibits fuel pattern which does not resemble standard
Z: Sample exhibits unknown single peak or peaks
H: Heavier hydrocarbons than indicated standard

Curtis & Tompkins, Ltd.

Lab #: 123371 BATCH QC REPORT

TEH-Tot Ext Hydrocarbons

Client:	Subsurface Consultants	Analysis Method:	CA LUFT (EPA 8015M)
Project#:	820.001	Prep Method:	3510
Location:	6707 Bay St.		

METHOD BLANK

Matrix:	Water	Prep Date:	11/14/95
Batch#:	24391	Analysis Date:	11/18/95
Units:	ug/L		
Diln Fac:	1		

MB Lab ID: QC08975

Analyte	Result	
Diesel Range	<50	
Surrogate	%Rec	Recovery Limits
Hexacosane	97	60-140

Curtis & Tompkins, Ltd.

Lab #: 123371 BATCH QC REPORT

TEH-Tot Ext Hydrocarbons

Client: Subsurface Consultants
Project#: 820.001
Location: 6707 Bay St.

Analysis Method: CA LUFT (EPA 8015M)
Prep Method: 3510

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 24391
Units: ug/L
Diln Fac: 1

Prep Date: 11/14/95
Analysis Date: 11/18/95

BS Lab ID: QC08976

Analyte	Spike Added	BS	%Rec #	Limits
Diesel Range	2565	2937	115	60-140
Surrogate	%Rec	Limits		
Hexacosane	102	60-140		

BSD Lab ID: QC08977

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Diesel Range	2565	3132	122	60-140	6	<35
Surrogate	%Rec	Limits				
Hexacosane	112	60-140				

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

1 of -

CHAIN OF CUSTODY FORM

PAGE OF

PROJECT NAME: 6707 Bay St.

JOB NUMBER: 820.001 LAB: Curtis & Tompkins

PROJECT CONTACT: Meg Mendoza TURNAROUND: Normal

SAMPLED BY: Dennis Alexander REQUESTED BY: Meg Mendoza

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX						CONTAINERS						METHOD PRESERVED					SAMPLING DATE								NOTES	ANALYSIS REQUESTED										
		WATER	SOIL	WASTE	AIR			VOA	LITER	PINT	TUBE			HCL	H_2SO_4	HNO_3	ICE	NONE	MONTH		DAY		YEAR		TIME				EPA 8240	EPA 8015/5030 - TEH	EPA 8015/3550 - TPH							
-1	MW-1	X						4	1					X			X		1	1	1	3	9	5	1	4	1	5		X	X	X							
-2	MW-8	X						4	1					X			X		1	1	1	3	9	5	1	2	4	5		X	X	X							
-3	MW-9	X						4	1					X			X		1	1	1	3	9	5	1	1	3	0		X	X	X							
-4	MW-10	X						4	1					X			X		1	1	1	3	9	5	1	1	0	0		X	X	X							

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Dennis Alexander	11/13/95 3:00 p.m.	Damara Mooze	11/13/95 3pm
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES:

Subsurface Consultants, Inc.

171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607

(510) 268-0461 • FAX: 510-268-0137

GROUNDWATER DEPTHS

Project Name: 6707 Bay St.

Job No.: 820.001

Measured by: DWA

Well	Date	Time	Groundwater Depth (feet)	Comments
MW-1	11/13/95	0840	11.25	new lock
MW-3		0820	9.40	new lock
MW-5		0810	9.65	
MW-6		0815	Dry	grass obstruction @ 8.5'
MW-7		0800	12.65	
MW-8		0835	11.00	
MW-9		0830	10.46	~~new lock~~
MW-10		0825	11.70	new lock

WELL SAMPLING FORM

Project Name: 6707 Bay St. Well Number: MW-1

Job No.: 820.001 Well Casing Diameter: 4 inch

Sampled By: DWA Date: 11/13/95

TOC Elevation: _____ Weather: Sunny

Depth to Casing Bottom (below TOC) 29.50 feet

Depth to Groundwater (below TOC) 11.25 feet

Feet of Water in Well 18.25 feet

Depth to Groundwater When 80% Recovered 14.90 feet

Casing Volume (feet of water x Casing DIA ^{2} x 0.0408) 11.9 gallons

Depth Measurement Method Tape & Paste / Electronic Sounder / Other

Free Product none

Purge Method disposable bailer

moderate recharge

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°F)	Conductivity (micromhos/cm)	Salinity S%	Comments
~~10~~ 15	8.09	65.6	6630		clear/faint odor
~~15~~ 20	7.61	64.8	6500		↓
~~20~~ 25	7.44	64.8	6450		↓
~~25~~ 30	7.34	64.4	6560		murky
~~30~~ 35	7.55	63.9	6390		↓

Total Gallons Purged 36 gallons

Depth to Groundwater Before Sampling (below TOC) 14.90 feet

Sampling Method disposable bailer

Containers Used 4 (40 ml) 1 (liter) _____ (pint)

Subsurface Consultants

JOB NUMBER DATE APPROVED PLATE

WELL SAMPLING FORM

Project Name: 6707 Bay St. Well Number: MW-8

Job No.: 820.001 Well Casing Diameter: 4 inch

Sampled By: DWA Date: 11/13/95

TOC Elevation: _____ Weather: Sunny

Depth to Casing Bottom (below TOC) 22.00 feet

Depth to Groundwater (below TOC) 11.00 feet

Feet of Water in Well 11.00 feet

Depth to Groundwater When 80% Recovered 13.20 feet

Casing Volume (feet of water x Casing DIA ^{2} x 0.0408) 7.2 gallons

Depth Measurement Method Tape & Paste / (Electronic Sounder) / Other

Free Product none

Purge Method disposable bailer

FIELD MEASUREMENTS

moderate recharge

Gallons Removed	pH	Temp (°F)	Conductivity (micromhos/cm)	Salinity S%	Comments
5	7.52	64.9	3200		semi-clear/mod. odor w/ suspended particles
10	7.54	64.3	3280		
15	7.61	63.7	3330		
20	7.63	63.4	3390		

Total Gallons Purged 22 gallons

Depth to Groundwater Before Sampling (below TOC) 13.20 feet

Sampling Method disposable bailer

Containers Used 4 (40 ml) 1 (liter) _____ (pint)

Subsurface Consultants

JOB NUMBER DATE APPROVED

PLATE

WELL SAMPLING FORM

Project Name: 6707 Bay St. Well Number: MW-9

Job No.: 820.001 Well Casing Diameter: 2 inch

Sampled By: DWA Date: 11/13/95

TOC Elevation: _____ Weather: Sunny

Depth to Casing Bottom (below TOC) 15.00 feet

Depth to Groundwater (below TOC) 10.46 feet

Feet of Water in Well 4.54 feet

Depth to Groundwater When 80% Recovered 11.37 feet

Casing Volume (feet of water x Casing DIA ² x 0.0408) .75 gallons

Depth Measurement Method Tape & Paste / Electronic Sounder / Other

Free Product none

Purge Method disposable bailers

fast recharge

FIELD MEASUREMENTS

Gallons Removed	pH	Temp (°F)	Conductivity (micromhos/cm)	Salinity S%	Comments
1	7.58	65.3	2350		clear/slight odor
2	7.15	65.3	2330		↓
3	7.21	64.8	2200		

Total Gallons Purged 3 gallons

Depth to Groundwater Before Sampling (below TOC) 11.00' feet

Sampling Method disposable bailer

Containers Used 4 (40 ml) 1 (liter) _____ (pint)

Subsurface Consultants

JOB NUMBER DATE APPROVED

PLATE

WELL SAMPLING FORM

Project Name: 6707 Bay St. Well Number: MW-10

Job No.: 820.001 Well Casing Diameter: 2 inch

Sampled By: DWA Date: 11/13/95

TOC Elevation: _____ Weather: Sunny

Depth to Casing Bottom (below TOC) 15.00 feet

Depth to Groundwater (below TOC) 11.70 feet

Feet of Water in Well 3.30 feet

Depth to Groundwater When 80% Recovered 12.36 feet

Casing Volume (feet of water x Casing DIA ² x 0.0408) .54 gallons

Depth Measurement Method Tape & Paste / (Electronic Sounder) / Other

Free Product none

Purge Method disposable bailers

FIELD MEASUREMENTS

fast recharge

Gallons Removed	pH	Temp (F°)	Conductivity (micromhos/cm)	Salinity S%	Comments
1	7.67	70.1	4100		murky/slight odor
2	7.81	69.1	3450		↓
3	7.92	68.3	3700		

Total Gallons Purged 3 gallons

Depth to Groundwater Before Sampling (below TOC) 12.10 feet

Sampling Method disposable bailer

Containers Used 4 (40 ml) 1 (liter) _____ (pint)

Subsurface Consultants

JOB NUMBER DATE APPROVED PLATE

ENVIRONMENTAL
PROTECTION
96 JUN 24 PM 3:18

June 21, 1996
SCI 820.001

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94501

Groundwater Monitoring - May 1996 Event
Request For "No Further Action"
6707 Bay Street
Emeryville, California

Dear Ms. Hugo:

This letter transmits the results of the fourth additional groundwater monitoring event performed by Subsurface Consultants, Inc. (SCI) at the referenced site in May 1996. The events were performed at the request of the Alameda County Health Care Services Agency (ACHCSA) and Regional Water Quality Control Board (RWQCB) to provide additional data which would be used by the agencies to consider a "No Further Action" status for the site.

BACKGROUND

Three underground tanks which previously stored methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Studies conducted following tank removal indicated that soil and groundwater adjacent to the previous tanks had been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation until early 1991. Since 1991, no additional remediation has been performed.

SCI implemented groundwater monitoring on a quarterly basis from May 1993 to August 1994. The monitoring data indicated that the plume was not migrating nor changing significantly. On September 23, 1994, site findings were discussed with the ACHCSA and RWQCB in light of the RWQCB's proposed guidelines regarding alternative compliance points. SCI submitted a Work Plan and Revised Request for "No Further Action" Alternative Compliance Points Monitoring Program dated October 18, 1994 (the "Work Plan") to the ACHSCA for its review. The Work Plan indicated that the site was

appropriate for consideration under the RWQCB's guidelines. The Work Plan outlined two action steps which would be undertaken to contain and manage any remaining risks posed by residual groundwater contamination. The action steps were as follows:

1. Filing a "special notice" regarding the presence of soil and groundwater contamination at the site and containing an acknowledgment of the residual contamination by the current owner (Nady Systems, Inc.), and

2. Performing 2 additional quarterly groundwater monitoring events, followed by 2 semi-annual events.

The Work Plan further requested that if the results of monitoring indicated that chemicals of concern were non-detectable in well MW-1 and that concentrations either decreased or remained relatively stable in wells MW-9 and MW-10, then the site would be deemed by the RWQCB and the ACHCSA to require "No Further Action".

Based on ACHCSA comments presented in a letter dated December 30, 1994, an Addendum No. 1 to the Work Plan, dated January 17, 1995 was submitted by SCI ("Addendum No. 1") to the ACHCSA for its review. Addendum No. 1 provided additional detail to the Work Plan, as requested by ACHCSA, including a provision that groundwater sampling at the site should be coordinated at the adjacent site located at 1650-65th Street. The submission of the Addendum No. 1 satisfied all conditions specified by the ACHCSA for approval of the Work Plan.

SCI has performed the required additional monitoring events. The events were performed during the months of February, May and November 1995, concluding with the current event which was performed in May 1996.

RESULTS OF MAY 1996 SAMPLING

Groundwater Level Measurements

Prior to sampling, water levels were measured in on-site monitoring wells MW-1, MW-3, MW-5, MW-8, MW-9, and MW-10 using an electric well sounder. Water levels were also measured by SCI in wells PES-2 through PES-8 on an adjacent property. Monitoring well locations are shown on the attached Site Plan, Plate 1. Groundwater was not present in monitoring well MW-7 during this event. The groundwater level measurements for the site are presented in Table 1. Groundwater surface contours for this event are presented on Plate 1.

Sampling and Analysis

For this event, on-site monitoring wells MW-1, MW-8, MW-9 and MW-10 were sampled. The wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 3 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

After the wells had recharged to within 80 percent of their initial volume, they were sampled using a pre-cleaned sampling device. The water samples were retained in pre-cleaned containers, placed in an iced cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the tests performed. The samples were analytically tested for the following:

1. Volatile organic compounds (VOC) - EPA 8240,
2. Total volatile hydrocarbons (TVH) - EPA 8015/5030, and
3. Total extractable hydrocarbons (TEH) - EPA 8015/3550.

A summary of the current and previous analytical test results are presented in Tables 2 and 3. Analytical test reports and Chain-of-Custody documents are attached for the most recent on-site monitoring event.

CONCLUSIONS

The groundwater level data continues to indicate that the general groundwater flow direction is toward the southwest at a gradient of approximately 0.012. Locally, near the former tank area at 6707 Bay Street, the gradient is toward the west. Water levels have fluctuated 1 to 2.5 feet since monitoring began in 1993.

4-methyl-2 pentanone was detected in well MW-8 at a concentration of 15,000 ug/l which is the lowest measured concentration during the last year. 4-methyl-2 pentanone was not detected in the other sampled wells during this event.

Benzene and chlorobenzene were detected in monitoring well MW-10 during this event. Benzene was detected at a concentration of 7.5 ug/L which is within the range of values detected at the site (6.6 to 31 ug/L). Chlorobenzene was detected at a concentration of 3.5 ug/L, which is below the method detection limit. Chlorobenzene has been detected in well MW-10 previously at similar concentrations. Benzene and chlorobenzene were not detected in the other sampled wells during this event.

Monitoring wells MW-1, MW-8, MW-9, and MW-10 detected the presence of TEH ranging from 1.0 to 5.7 mg/L and TVH ranging from 0.05 to 3.6 mg/l; however, the compounds identified do not exhibit the typical diesel chromatograph standard as they have unknown peaks within the gasoline standard range of the chromatograph.

"NO FURTHER ACTION" REQUEST

With the completion of the most recent monitoring event, all measures required under the Work Plan, as amended by Addendum No. 1 have been completed. Based on over 6 years of groundwater monitoring data, it is our opinion that the contaminant plume is stabilized and that contaminant levels at the site are within the guidelines set forth in the approved Work Plan. There is no indication that plume concentrations are increasing nor that the plume is migrating off-site. Hence, in our opinion further mitigation measures are not warranted. On-behalf of MRCP Realty, SCI respectfully requests confirmation that No Further Action is required at the site and that the site may be closed. We appreciate your cooperation in this matter and look forward for your prompt review and comment.

If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

Jeriann N. Alexander
Civil Engineer 40469 (expires 3/31/99)
Registered Environmental Assessor 03130 (exp. 6/30/96)

R. William Rudolph
Geotechnical Engineer 741 (exp. 12/31/96)
Registered Environmental Assessor 03291 (exp. 6/30/96)

SCW:JNA:RWR:sld

Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Volatile Organic Chemical Concentrations in Groundwater
Table 3 - Petroleum Hydrocarbon Concentrations in Groundwater
Plate 1 - Site Plan
Analytical Test Reports
Chain-of-Custody Records
Groundwater Sampling Forms

cc: Maureen Bennett - Graham & James
James McClay - MRCP Realty

Table 1
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
SCI MW-1	9/7/89	20.61	11.60	9.01
	5/20/93		10.25	10.36
	6/4/93		11.45	9.16
	8/25/93		11.20	9.41
	11/18/93		11.65	8.96
	2/25/94		10.04	10.57
	4/20/94		10.54	10.07
	4/22/94		10.56	10.05
	4/26/94	20.39	10.38	10.01
	8/8/94		11.02	9.37
	2/9/95		7.48	12.91
	5/9/95		8.92	11.47
	11/13/95		11.25	9.14
	5/9/96		9.59	10.80
SCI MW-3	9/7/89	20.09	9.83	10.26
	5/20/93		8.55	11.54
	6/4/93		9.36	10.73
	8/25/93		9.42	10.67
	11/18/93		10.03	10.06
	2/25/94		7.29	12.80
	4/20/94		8.56	11.53
	4/22/94		8.65	11.44
	4/26/94		8.21	11.88
	8/8/94		9.31	10.78
	2/9/95		7.15	12.94
	5/9/95		7.90	12.19
	11/13/95		9.40	10.69
	5/9/96		8.50	11.59
SCI MW-5	9/7/89	18.06	10.27	7.79
	4/22/94		9.26	8.80
	4/26/94		9.24	8.82
	8/8/94		9.96	8.10
	2/9/95		6.68	11.38
	5/9/95		7.12	10.94
	11/13/95		9.65	8.41
	5/9/96		8.08	9.98
SCI MW-7	6/4/93	20.36	12.67	7.69
	8/25/93		12.44	7.92
	11/18/93		13.13	7.23
	2/25/94		11.80	8.56
	4/20/94		12.21	8.15
	4/22/94		12.26	8.10
	4/26/94		12.21	8.15
	8/8/94		12.65	7.71
	2/9/95		10.20	10.16
	5/9/95		10.55	9.81
	11/13/95		12.65	7.71

Table 1
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
SCI MW-7	5/9/96		Dry	-
SCI MW-8	5/20/93	20.72	9.55	11.17
	6/4/93		10.81	9.91
	8/25/93		10.93	9.79
	11/18/93		11.72	9.00
	2/25/94		9.05	11.67
	4/20/94		10.18	10.54
	4/22/94		10.48	10.24
	4/26/94		10.13	10.59
	8/8/94		10.99	9.73
	2/9/95		7.85	12.87
	5/9/95		9.05	11.67
	11/13/95		11.00	9.72
	5/9/96		9.71	11.01
SCI MW-9	4/20/94	20.69	10.26	10.43
	4/22/94		10.31	10.38
	4/26/94		10.26	10.43
	8/8/94		11.24	9.45
	2/9/95		7.55	13.14
	5/9/95		8.88	11.81
	11/13/95		10.46	10.23
	5/9/96		9.60	11.09
SCI MW-10	4/20/94	20.42	10.72	9.70
	4/22/94		10.73	9.69
	4/26/94		10.72	9.70
	8/8/94		11.60	8.82
	2/9/95		7.10	13.32
	5/9/95		8.70	11.72
	11/13/95		11.70	8.72
	5/9/96		9.54	10.88
PES MW-2	2/9/95	15.79	10.64	5.15
	5/9/95		10.60	5.19
	11/13/95		11.18	4.61
	5/9/96		10.78	5.01
PES MW-3	2/9/95	12.43	6.86	5.57
	5/9/95		7.16	5.27
	11/13/95		8.44	3.99
	5/9/96		7.72	4.71
PES MW-4	2/9/95	12.24	8.11	4.13
	5/9/95		7.76	4.48
	11/13/95		7.95	4.29
	5/9/96		7.64	4.60

Table 1
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
PES MW-5	2/9/95	12.82	5.68	7.14
	5/9/95		5.36	7.46
	11/13/95		6.89	5.93
	5/9/96		6.00	6.82
PES MW-6	2/9/95	12.03	7.66	4.37
	5/9/95		8.57	3.46
	11/13/95		8.15	3.88
	5/9/96		7.64	4.39
PES MW-7	2/9/95	12.90	7.57	5.33
	5/9/95		5.15	7.75
	11/13/95		5.98	6.92
	5/9/96		6.11	6.79
PES MW-8	2/9/95	15.01	10.23	4.78
	5/9/95		10.48	4.53
	11/13/95		11.02	3.99
	5/9/96		10.50	4.51

1 Reference Elevation: MSL

Table 2
Volatile Organic Chemical Concentrations in Groundwater

Well	Date	4-Methyl-2 Pentanone (µg/l)[1]	Vinyl Chloride (µg/l)	Acetone (µg/l)	2-Butanone (µg/l)	4-Methyl-2 Pentanol (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl benzene (µg/l)	Xylene (µg/l)	Trans-1,2 Dichloro-ethene (µg/l)	Other EPA 8240 Compounds (µg/l)
Sump-Well	8/21/89	<20	<4	<20	<20	NR[2]	<2	<2	<3	<3	<3	ND[3]
MW1	7/6/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
	9/7/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
	1/10/90	NR	<30	NR	NR	NR	<5	<5	<5	<5	<5	ND
	9/5/91	<10	<10	<20	<20	NR	7	8	<5	3	<5	ND
	5/20/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	8/25/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	11/18/93	<10	<10	<40	<10	NR	<5	<5	<5	<5	<5	ND
	2/25/94	<10	<10	<10	<10	NR	<5	<5	<5	<5	<5	ND
	8/8/94	<10	<10	<10	<10	NR	<5	<5	<5	<5	<5	ND
	2/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	5/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	11/13/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	5/9/96	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
MW3	9/7/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
	1/10/90	NR	<30	NR	NR	NR	<5	<5	<5	<5	<5	ND
	9/5/91	<10	<10	<20	<20	NR	<5	<5	<5	<5	<5	ND
	5/20/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	8/25/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	11/18/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	2/25/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	8/8/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
MW8	1/10/90	160,000[4]	<6,000	NR	NR	NR	2,100	<1,000	<1,000	<1,000	<1,000	ND
	12/10/90	47,000[4]	<150	3,200[4]	10,000[4]	130,000[4]	160	<25	<25	<25	<25	ND
	9/5/91	150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000	<5,000	<5,000	<5,000	ND
	5/20/93	100,000	<5,000	<10,000	<5,000	NR	<3,000	<3,000	<3,000	<3,000	<3,000	ND
	8/25/93	48,000	<3,000	<5,000	<3,000	NR	<1,000	<1000	<1000	<1000	<1000	ND
	11/18/93	840	<50	<100	<50	NR	<25	<25	<25	<25	<25	ND
	2/25/94	14,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
	4/21/94	19,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
	5/11/94	140,000	<5,000	<10,000	<3,000	NR	<3,000	<3,000	<3,000	<3,000	<3,000	ND
	8/8/94	61,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
	2/9/95	62,000	<10	40	78	NR	64	<5	<5	<5	<5	7.9[5],10[6]
	5/9/95	<10	<10	<20	<10	NR	69	<5	<5	<5	<5	11[6]
	11/13/95	85,000	<100	<200	<100	NR	63	<50	<50	<50	<50	ND
	5/9/96	15,000	<500	<1000	<500	NR	<250	<250	<250	<250	<250	ND

Table 2
Volatile Organic Chemical Concentrations in Groundwater

Well	Date	4-Methyl-2 Pentanone (MIBK Hexanone) (µg/l)[1]	Vinyl Chloride (µg/l)	Acetone (µg/l)	2-Butanone (MEK) (µg/l)	4-Methyl-2 Pentanol (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl benzene (µg/l)	Xylene (µg/l)	Trans-1,2 Dichloro-ethene (µg/l)	Other EPA 8240 Compounds (µg/l)
MW9	4/21/94	120	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	8/8/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	2/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	5/9/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	11/13/95	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
	5/9/96	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
MW10	4/21/94	23	<10	<20	<10	NR	22	<5	<5	<5	<5	ND
	8/8/94	<10	<10	<20	<10	NR	14	<5	<5	<5	<5	ND
	2/9/95	<10	<10	<20	<10	NR	6.6	<5	<5	<5	<5	3.2[6]
	5/9/95	<10	<10	<20	<10	NR	12	<5	<5	<5	<5	3.0[6], 3.0[7]
	11/13/95	<10	<10	<20	<10	NR	31	<5	<5	<5	<5	ND
	5/9/96	<10	<10	<10	<10	NR	7.5	<5	<5	<5	<5	3.5[6]

1 micrograms per liter
2 Not reported
3 Not detected at concentrations above the reporting limits
4 Tentatively identified compound concentrations
5 2-Hexanone (reporting limit = 10 ug/l)
6 Chlorobenzene (Reporting Limit = 5.0 µg/l)
7 Carbon Disulfide (Reporting Limit = 5.0 ug/l)

Table 3
Petroleum Hydrocarbon Concentrations in Groundwater

Date	Well	Total Recoverable Hydrocarbons (mg/l)	Oil and Grease (mg/l)	TEH (mg/l)	TVH (mg/l)
7/6/89	MW-1	--	--	<0.5	<0.5
9/7/89		--	<10	<0.5	<0.5
1/10/90		0.5	--	<10	<10
5/20/93		--	<5	--	--
8/25/93		--	<5	--	--
11/18/93		--	<5	--	--
2/25/94		--	<5	--	--
8/8/94		--	--	<0.05	<0.05
2/9/95		--	--	1.0[b]	<0.05
5/9/95		--	--	1.2[b]	0.95[a]
11/13/95		--	--	<0.05	<0.05
5/9/96		--	--	1[b]	0.05[a]
9/7/89	MW-3	--	<10	<0.5	<0.5
1/10/90		0.6	--	<10	<10
5/20/93		--	<5	--	--
8/25/93		--	<5	--	--
11/18/93		--	<5	--	--
2/25/94		--	<5	--	--
4/21/94		--	<5	0.43	0.06
8/8/94		--	<5	1.2	<0.05
1/10/90	MW-8	103	--	<10	<10
12/10/90		10.5	--	--	--
5/20/94		--	<5	--	--
8/25/93		--	<5	--	--
11/18/93		--	14	--	--
2/25/94		--	<5	--	--
4/21/94		--	<5	2.8	5.9
8/8/94		--	<5	3.6	7.2
2/9/95		--	--	2.8[b]	9.1[a]
5/9/95		--	--	4.9[b]	0.95[a]
11/13/95		--	--	1.9[b]	16[a]
5/9/96		--	--	4.9[b]	3.6[c]
4/21/94	MW-9	--	<5	0.68	0.92
8/8/94		--	<5	1.2	0.86
2/9/95		--	--	0.730[b]	0.400[a]
5/9/95			--	0.900[b]	0.440[a]
11/13/95		--	--	0.340[b]	0.430[a]
5/9/96		--	--	5.7[b]	0.2[c]
4/21/94	MW-10	--	<5	2.1	0.68
8/8/94		--	<5	4.4	0.61
2/9/95		--	--	1.3[b]	0.150[a]
5/9/95		--	--	2.8[b]	0.280[a]
11/13/95		--	--	2.2[b]	0.660[a]
5/9/96		--	--	3.3[b]	0.9[c]

-- = Test not requested

[a] = Sample chromatogram does not resemble gas standard

[b] = Sample chromatogram does not resemble diesel standard

[c] = Sample exhibits unknown single peak or peaks

ALCO
HAZMAT
94 SEP 21 PM 12:35

SUPPLEMENTAL MIBK
CONTAMINATION ASSESSMENT
6707 BAY STREET
EMERYVILLE, CALIFORNIA
SCI 820.001

9/21/94

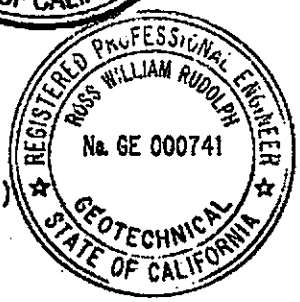
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By:



Mark Kawakami
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Geotechnical Engineer 741 (expires 12/31/96)

Subsurface Consultants, Inc.
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September 21, 1994

I INTRODUCTION

This report presents the results of a supplemental investigation conducted by Subsurface Consultants, Inc. (SCI) of the previous underground storage tank area at 6707 Bay Street in Emeryville, California. The site is located on the west side of Bay Street south of the Interstate 80/Ashby Avenue Exit ramp, as shown on the Site Plan, Plate 1. The previous tank area is shown on Plate 2.

From May 1993 to August 1994, SCI monitored groundwater in the area of three previous underground storage tanks which had reportedly stored chemicals used in the manufacturing of Dymo Labels. Chemicals used at the site included methyl isobutyl ketone (MIBK) and methyl ethyl ketone (MEK). Analytical results indicated that MIBK was present at significant concentrations in soil and water in the tank area. SCI's current scope of services included characterizing the extent of MIBK contamination in soil and groundwater by performing the following tasks:

1. Drilling and sampling nine (9) test borings;
2. Converting two of the test borings to monitoring wells;
3. Conducting slug tests in four (4) selected wells,
4. Performing analytical tests on selected soil and groundwater samples, and
5. Preparing a report recording the results of the investigation.

A draft report dated May 16, 1994 was previously submitted. This final report has been updated to include the results of additional groundwater monitoring which was performed at the site on May 11 and August 8, 1994.

Our investigation indicates that soil and groundwater remedial efforts have resulted in significant source removal but have not reduced MIBK concentrations to non-detectable levels. MIBK contamination remains in a relatively small area directly downgradient of the previous tanks. Given the limited extent of soil and groundwater contamination and limited migration potential of the MIBK plume due to hydrogeologic conditions in the tank area, we propose that an "alternative compliance points" approach be adopted for the site.

II PREVIOUS INVESTIGATION/REMEDIATION IN TANK AREA

Three underground storage tanks were removed from the property in 1989. Confirmation samples obtained from the tank excavation indicated that soils beneath the tanks contained MIBK at concentrations up to 5,000,000 ug/kg. Additionally, other volatile organic compounds and petroleum hydrocarbons were also detected in the soil samples.

In January 1990, monitoring well MW-8 was installed downgradient of the previous tank area to evaluate groundwater impacts. Analytical results indicated that MIBK was present in the groundwater at a concentration of 160,000 ug/l. A treatment system

consisting of soil vapor extraction and groundwater extraction was installed to limit plume migration and remediate impacted soil and groundwater. The soil vapor treatment system operated from July 1990 to February 1991; the groundwater treatment system operated from October 1990 to March 1991. In September 1991, two test borings (PB-1 and PB-2) were drilled in the tank area, by others. Analytical results from soil samples obtained from these borings indicated that MIBK was not present at concentrations above the laboratory reporting limits which varied from 10 to 50 ug/kg.

In May 1993, SCI was retained to decommission the treatment system in accordance with a work plan approved by the Alameda County Health Care Services Agency (ACHCSA). SCI also implemented groundwater monitoring in the previous tank area. Wells MW-1, MW-3, and MW-8 were monitored on a quarterly basis from May 1993 to August 1994. Analytical results indicated that (1) significant concentrations of MIBK continue to exist in groundwater near MW-8 and (2) the extent of the MIBK plume is limited in extent, since MIBK has not been detected in MW-1 at concentrations above the reporting limits, which was previously [redacted].

III FIELD INVESTIGATION

A. Test Borings

Subsurface conditions were explored on April 13 and 14, 1994, by drilling nine (9) test borings to depths of approximately 15 feet. The test borings were drilled using truck-mounted, 8-inch-diameter hollow-stem augers. Boring locations are shown on Plate 2.

Our field engineer observed drilling operations and prepared detailed logs of the borings. Soil samples were obtained from the borings using a California Drive Sampler having an outside diameter of 2.5 inches, and an inside diameter of 2.0 inches. The sampler was driven with a 140-pound hammer having a drop of 30 inches. The blows required to drive the sampler the final 12 inches of each 18-inch penetration were recorded and are shown on the Boring Logs, Plates 3 through 8. Soils are classified in accordance with the Unified Soil Classification System described on Plate 9.

Soil samples were retained in 2-inch-diameter brass sample liners. Teflon sheeting was placed over the ends of the soil liners; the liners were subsequently capped and sealed with tape. Upon sealing and labeling, the samples were placed in an ice-filled cooler and remained refrigerated until delivery to the analytical laboratory.

The shoe sample from each drive was placed in a plastic bag and screened for volatile organic chemicals using an organic vapor meter (OVM). OVM measurements are recorded on the boring logs.

Drilling equipment was steam-cleaned prior to each use to reduce the likelihood of cross-contamination between borings. The sampling equipment was cleaned with an Alconox solution and triple rinsed with water between each use. Upon completion of drilling, Borings MW-9 and MW-10 were converted to monitoring wells. The remaining borings were backfilled with a cement grout.

B. Monitoring Wells

The monitoring wells were constructed with 2-inch-diameter, Schedule 40 PVC pipe having flush-threaded joints. No glue was used. The lower portion of the wells consist of machine-slotted well screen having 0.020-inch wide slots. The PVC pipe was steam-cleaned prior to use. The annular space around the screened section was backfilled with Lonestar No. 3 sand. A bentonite seal, approximately 12 inches thick, was placed above the sand. The annulus above the bentonite seal was backfilled with cement grout. The wells were finished below grade and are secured with locking caps. Specific details of the wells are shown on the respective boring logs.

On April 18, 1994, the wells were developed by removing water until the water became relatively free of turbidity. Approximately 12 and 24 gallons of water were removed from wells MW-9 and MW-10, respectively. The water was placed in steel drums and left on-site.

On April 21 and August 8, 1994, the monitoring wells were sampled. Additionally, monitoring well MW-8 was sampled on May 11, 1994. Prior to sampling, at least 3 well volumes were purged from each well. Purged water was placed in 55-gallon drums pending disposal at an offsite TSD Facility. Groundwater samples were obtained using pre-cleaned disposable bailers. Water samples were retained in containers pre-cleaned by the supplier and refrigerated until delivery to the analytical laboratory. Samples submitted to the laboratory were accompanied by Chain-of-Custody records, copies of which are presented in the Appendix.

A level survey, using a City of Emeryville elevation reference, was performed to determine the top of casing elevation for each of the monitoring wells on-site. The depth to groundwater, below the TOC was periodically measured using an electronic well sounder. The TOC elevation and water level data are presented in Table 1.

C. Slug Tests

On April 26, 1994 and May 6, 1994, slug tests were performed in MW-3, MW-8, MW-9, and MW-10, to estimate the hydraulic conductivity of soils in the tank area. The slug test consisted of the following: (1) measuring the static groundwater level in the well, (2) lowering a slug into the well; the slug consisted of a 5 or 10 foot section of 1.75-inch-diameter PVC pipe with both ends capped, (3) allowing the water level in the well to stabilize at the static level, and (4) rapidly removing the slug and measuring the rate of recharge using an electronic well sounder.

The hydraulic conductivity was calculated using the Bouwer and Rice method for an unconfined aquifer. Based on the slug test results, the estimated hydraulic conductivity of the soils in the tank area ranges from 4.6 to 7.5 x 10^{-5} cm/sec. A summary of the variables used for the hydraulic conductivity calculations are presented in Table 2. Slug test data are presented on Plates 10 through 13.

IV ANALYTICAL TESTING

A. Chemical Characterization

Selected soil and groundwater samples were analyzed by Curtis & Tompkins, Ltd., a State of California Department of Health Services (DHS) certified analytical laboratory. The testing program included analyzing samples for MIBK and other volatile organics using EPA 8240. Samples were also tested for the following, to further characterize landfill contamination.

1. Total volatile hydrocarbons - EPA 5030/8015,
2. Total extractable hydrocarbons - EPA 3550/8015,
3. Oil and grease (O&G) - SMWW 17: 5520,
4. Title 26 Metals, and
5. Semi-volatile organics - EPA 8270.

The analytical results are summarized in Tables 3 through 10. MIBK concentrations are also presented on Plates 2, and 14 through 16. For completeness, pertinent data from previous investigations[1] have

[1] See Table 13 for a list of documents reviewed

been compiled and are included in the tables. The analytical test reports from the current study are presented in the Appendix.

B. Biological Characterization

Selected soil and water samples were analyzed by Environmental Technical Services to evaluate the potential for biological activity in soil and groundwater in the tank area. The samples were analyzed for the following:

1. Nutrients,
2. Total Plate Count,
3. Pseudomonads,
4. Redox potential, and
5. pH.

Additionally, water samples were analyzed for:

6. Dissolved oxygen
7. Electrical conductivity, and
8. Total dissolved solids.

The analytical results are summarized in Tables 11 and 12. The test reports are presented in the Appendix.

V SITE CONDITIONS

A. Surface Conditions

The site is occupied by two buildings which are connected by an enclosed corridor. One of the buildings is a 55,000-square foot warehouse, currently used for distribution and packing. The other building is a 15,000-square foot, two-story office building. Currently, the area around the buildings is paved with asphalt.

As shown on Plate 2, the previous tanks existed beneath an unpaved area and a portion of the asphalt paved driveway on the east side of the site. The original vent lines are visible on the north side of the warehouse.

B. Site Geology

The site was reclaimed from the San Francisco Bay beginning in about 1947, by gradually filling low-lying marsh along the bay margin. Geological mapping by Radbruch (1957) indicates that the fill is underlain by thick alluvial deposits. The alluvial deposits are mapped as the Temescal formation by Radbruch (1957). Radbruch (1969) subsequently included the Temescal Formation as the main constituent of a broader unit classified as undivided Quaternary deposits. These alluvial deposits typically consist of well-consolidated, interfingered layers of gravel, sand, silt, and clay derived from erosion of the Berkeley Hills. These deposits are generally thickest at the foot of the Berkeley Hills and become thinner toward the shoreline. The quaternary deposits are underlain by the Pleistocene Age Alameda Formation, which consists of sandy and silty clays of continental derivation (Radbruch, 1957).

C. Subsurface Conditions

The test borings reveal that the tank area is underlain by 20 to 25 feet of heterogeneous fill. The fill consists of loose to medium dense silty and clayey sands, and medium stiff silty clays and clayey silts. Construction debris was encountered in the upper 10 feet of fill.

Previous test borings by others indicate that the fill is underlain by a thin layer of soft marsh and bay soils locally referred to as Bay Mud. Beneath the Bay Mud, and extending to the maximum depth drilled of 31.5 feet, stiff silty and sandy clays were encountered. Soil profiles based on the test boring data are presented on Plates 14 through 16. The profile locations are shown on Plate 2. For completeness, logs of previous test borings in the tank area are presented in the Appendix.

D. Groundwater Condition

The groundwater surface exists approximately 8 to 12 feet below the groundsurface. This corresponds to groundwater elevations varying from 8 to 12 feet, Mean Sea Level datum. The data indicates that groundwater in the tank area flows toward the northwest at a gradient of approximately 3.0 percent. Groundwater surface contours for measurements taken on April 22, 1994, are shown on Plate 2. Based on a gradient of 3.0 percent, and hydraulic conductivities ranging from 4.6 to 7.5 x 10^{-3} cm/sec., the rate of migration through soil in the tank area is computed to range from 3.1 to 5.2 feet/year.

VI CONCLUSIONS

A. MIBK

Based on the data, it appears that a significant MIBK release occurred in the tank area prior to 1989. The release has impacted soil and groundwater within, and downgradient, of the previous tank area. Comparison of the analytical data obtained following tank removal to those recently generated, indicates that significant soil and groundwater remediation has occurred, due in large part to on-site treatment performed in 1990 and 1991. However, elevated levels of MIBK still remain, predominantly within clayey landfill soil and in groundwater downgradient of the previous tank area. Biological data suggests that microbial activity, nutrient and oxygen levels in sandy fill areas are conducive to rapid natural biodegradation of MIBK, and, as a result, are likely responsible for the observed lower levels of MIBK in the sandy soils. To the extent that limited migration occurs as contamination slowly moves from the clayey to sandy soils, the contaminants are degraded, contributing to the rapid attenuation of the plume. The approximate extent of MIBK impacted landfill soils is presented on Plate 17. The approximate limits of the MIBK groundwater plume for the April and August 1994 monitoring events are presented on Plate 18.

B. Landfill Contaminants

Elevated levels of oil and grease, and total extractable hydrocarbons, and low levels of total volatile hydrocarbons, and volatile and semi-volatile organic chemicals exist in the soil in the previous tank area. Petroleum hydrocarbon concentrations in soil are presented on Plate 19. The concentrations of these chemicals in the tank area are similar to those found within the landfill soil throughout the site, and at other landfill sites in Emeryville. As a result, it is our opinion that these contaminants are representative of contaminated landfill materials and unrelated to tank releases, or any industrial activity of MRCP or its predecessor Dymo Industries.

Petroleum hydrocarbons were also detected in groundwater in the tank area. In general, concentrations were relatively low and consistent with the presence of petroleum hydrocarbons in the landfill soils. As a result, we conclude that the presence of petroleum hydrocarbons in groundwater is also unrelated to the tank release, or any industrial activity of MRCP or its predecessor Dymo Industries.

VI LIMITATIONS

This study was intended to evaluate the extent of on-site shallow soil and groundwater contamination, based on limited subsurface investigation and analytical testing. If areas of contamination exist on other portions of the property, away from the areas investigated, it is possible that they would not have been detected during this study.

Environmental sampling studies are by nature non-comprehensive and subject to limitations. This study was not designed to identify all potential concerns nor eliminate all risks.

SCI has performed the assessment in accordance with generally accepted standards of care which currently exist is Northern California. It should be recognized that the definition and evaluation of environmental conditions is difficult and inexact. Judgements leading to conclusions and recommendations are generally made with an incomplete knowledge of subsurface and/or historic conditions applicable to the site. In addition, the conclusions recorded herein reflect site conditions at the time of the investigation. These conditions may change with time, and as such, our conclusions may also change.

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Appendix:

Analytical Test Reports
Chain-of-Custody Documents
Logs of Test Borings MW-1, MW-3, MW-8

Distribution

4 copies: Mr. Kirk Jamieson
Pettit and Martin
101 California, Suite 3600
San Francisco, California 94111

1 copy: Mr. James McClay
MRCP Realty
P. O. Box 24122
Oakland, California 94623-1122

1 copy: Ms. Susan Hugo
Alameda County Health Care Services Agency
Division of Hazardous Materials
1131 Harbor Bay Parkway
Alameda, California 94501

MK:JNA:RWR:sld

Table 1
Groundwater Elevation Data

Well	Date	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW-1	9/7/89	20.61	11.60	9.01
	5/20/93		10.25	10.36
	6/4/93		11.45	9.16
	8/25/93		11.20	9.41
	11/18/93		11.65	8.96
	2/25/94		10.04	10.57
	4/20/94		10.54	10.07
	4/22/94		10.56	10.05
	4/26/94	20.39	10.38	10.01
	8/8/94			9.37
MW-3	9/7/89	20.09	9.83	10.26
	5/20/93		8.55	11.54
	6/4/93		9.36	10.73
	8/25/93		9.42	10.67
	11/18/93		10.03	10.06
	2/25/94		7.29	12.80
	4/20/94		8.56	11.53
	4/22/94		8.65	11.44
	4/26/94		8.21	11.88
	8/8/94		9.31	10.78
MW-5	9/7/89	18.06	10.27	7.79
	4/22/94		9.26	8.80
	4/26/94		9.24	8.82
	8/8/94		9.96	.10
MW-7	6/4/93	20.36	12.67	7.69
	8/25/93		12.44	7.92
	11/18/93		13.13	7.23
	2/25/94		11.80	8.56
	4/20/94		12.21	8.15
	4/22/94		12.26	8.10
	4/26/94		12.21	8.15
	8/8/94		12.65	7.71
MW-8	5/20/93	20.72	9.55	11.17
	6/4/93		10.81	9.91
	8/25/93		10.93	9.79
	11/18/93		11.72	9.00
	2/25/94		9.05	11.67
	4/20/94		10.18	10.54
	4/22/94		10.48	10.24
	4/26/94		10.13	10.59
	5/11/94		9.80	10.92
	8/8/94		10.99	9.73
MW-9	4/20/94	20.69	10.26	10.43
	4/22/94		10.31	10.38
	4/26/94		10.26	10.43
	8/8/94		11.24	9.45
MW-10	4/20/94	20.42	10.72	9.70
	4/22/94		10.73	9.69
	4/26/94		10.72	9.70
				8.82

Reference Elevation: MSL

TABLE 2
SUMMARY OF SLUG TEST CALCULATIONS

MONITORING WELL	MW - 3	MW - 8	MW - 9	MW - 10
DATE	4/26/94	4/26/94	5/6/94	4/26/94
INITIAL DEPTH TO GROUNDWATER	8.21	10.12	10.2	10.77
CASING INTERVAL	0 to 5	0 to 7	0 to 5	0 to 5
SCREEN INTERVAL	5 to 25	5 to 21.5	5 to 15	5 to 15
CASING RADIUS (rc)-(feet)	0.0833	0.1667	0.0833	0.0833
LENGTH OF SCREEN (L) - (feet)	16.79	11.38	1.8	4.23
RADIUS OF WELL BORE (rw) - (feet)	0.3333	0.4375	0.3333	0.3333
EFFECTIVE RADIUS OF WELL (Rc) - (feet)				
INITIAL HEAD (Yo) - (feet)	0.6	0.8	0.5	0.1
HEAD AT A GIVEN TIME (Yt) - (feet)	0.1	0.5	0.3	0.05
TIME (t) - (Seconds)	640	565	580	480
DISTANCE FROM WATER TABLE TO BOTTOM OF SCREEN (H) - (feet)	16.79	11.38	1.8	4.23
SATURATED AQUIFER THICKNESS (D) - (feet)	16.79	11.38	11.8	11.23
COEFFICIENT A	3.1	2.35	1.75	1.9
COEFFICIENT B	0.5	0.4	0.25	0.3
COEFFICIENT C	2.75	1.9	0.95	1.35
L/Rw	50.38	26.01	5.40	12.69
HYDRAULIC CONDUCTIVITY - (feet/sec) (H=D)	1.73E-06	2.47E-06		
HYDRAULIC CONDUCTIVITY - (cm/sec) (H=D)	5.26E-05	7.54E-05		
HYDRAULIC CONDUCTIVITY - (feet/sec) (D>H)			1.50E-06	1.81E-06
HYDRAULIC CONDUCTIVITY - (cm/sec) (D>H)			4.56E-05	5.52E-05
GRADIENT (ft/ft)	0.03	0.03	0.03	0.03
MIGRATION RATE (feet/sec)	1.15E-07	1.65E-07	9.98E-08	1.21E-07
MIGRATION RATE (feet/year)	3.63	5.20	3.15	3.80

1 Bouwer & Rice Method

Table 3
Petroleum Hydrocarbon Concentrations in Soils

Reference No.	Date	Boring	Depth (feet)	O&G [1] (mg/kg) [4]	TEH [2] (mg/kg)	TVH [3] (mg/kg)
5	7/5/89	B1	5.5	845	12	<10
			10.5	<50	<10	<10
			16.0	1,600	63	<10
			20.5	80	<10	<10
			25.5	95	<10	<10
			30.5	<50	<10	<10
5	8/28/89	B3	5.0	1,845	30	<10
			12.0	95	20	<10
			15.0	625	260	120
			20.0	<20	<10	<10
			25.0	20	<10	<10
6	10/5/89	SS-1-E		-- [5]	12	12
		SS-2-W		--	11	<10
		SS-3-E		--	<10	<10
		SS-4-W		--	60	240
		SS-5-E		--	35	115
		SS-6-W		--	700	460
7	1/3/90	MW8	4.0	2,000	<10	<10
			9.0	20,000	<10	<10
12	4/13/94	T1	14.0	--	96	<1
12	4/13/94	T2	6.0	160	40	--
			8.5	--	--	<1
12	4/13/94	T3	8.0	--	--	<1
12	4/14/94	T4	9.0	--	--	<1
12	4/14/94	T5	5.0	710	<10	<1
			9.0	<50	<1	<1
12	4/14/94	T7	7.5	68	<10	<1
			14.0	--	<20	160
12	4/13/94	MW9	15.5	470	<1	--
12	4/14/94	MW10	15.5	9400	7300	2

1 Oil & Grease

2 Total extractable hydrocarbons, as Diesel

3 Total volatile hydrocarbons, as Gasoline

4 Milligrams per kilogram

5 Test not requested

Table 4
Volatile Organic Chemical Concentrations in Soil

Reference No.	Date	Boring	Depth (feet)	Acetone (µg/kg)[1]	Benzene (µg/kg)	Ethyl-benzene (µg/kg)	Toluene (µg/kg)	Total Xylenes (µg/kg)	4-Methyl-2 Pentanone (µg/kg)	1,2 Dichloro benzene (µg/kg)	1,3 Dichloro benzene (µg/kg)	1,4 Dichloro benzene (µg/kg)	2-Butanone (µg/kg)	Carbon Disulfide (µg/kg)	Methylene Chloride (µg/kg)	Trichloro fluoromethane (µg/kg)	1,1,1-Trichloro ethane (µg/kg)	Freon 113 (µg/kg)	Other Volatile Organic Compounds[2] (µg/kg)
5	7/5/89	B1	5.5	–[3]	–	–	–	–	–	–	–	–	–	–	<30	<30	<30	NR[4]	ND[5]
		(MW1)	10.5	–	–	–	–	–	–	–	–	–	–	–	<30	<30	<30	NR	ND
			15.0	–	–	–	–	–	–	–	–	–	–	–	<30	<30	<30	NR	ND
			20.5	–	–	–	–	–	–	–	–	–	–	–	<30	<30	<30	NR	ND
			25.5	–	–	–	–	–	–	–	–	–	–	–	<30	<30	<30	NR	ND
			30.5	–	–	–	–	–	–	–	–	–	–	–	<30	<30	<30	NR	ND
8,11	10/5/89	SS-1-E		<200,000	1,300	40	NR	300	600,000	<30	120	250	<200,000	<80,000	<30	<30	<30	<30	ND
		SS-2-W		<20	230	30	60	50	20	<30	<3	<3	<20	<3	<30	<3	3	<3	ND
		SS-3-E		40	<2	<3	50	35	<20	<30	<3	4	<20	<3	<30	9	6	6	ND
		SS-4-W		<2,000,000	1,400	110	NR	1,100	3,300,000	70	2,000	2400	<2,000,000	<800,000	<30	<30	<30	<30	ND
		SS-5-E		<400,000	<300	<300	NR	1,000	180,000	<30	<30	<30	<40,000	<20,000	<30	<30	<30	<30	ND
		SS-6-W		<2,000,000	4,600	<1,500	NR	7,500	5,000,000	<30	<30	<30	<2,000,000	<800,000	<30	<30	<30	<30	ND
7	1/3/90	MW8	4.0	<50	<10	<10	<10	<10	<30	<10	<10	<10	<50	<10	<50	<10	<10	NR	ND
			9.0	<50	<100	<100	<100	<100	8,300	<100	<100	<100	<500	<100	<50	<10	<10	NR	ND
10	9/5/91	PB-1	6.0	<20	<5	<5	<5	<5	<10	<5	<5	2	<20	<5	<5	<5	<5	NR	ND
			8.5	<20	<5	<5	<5	<5	<10	<5	3	4	<20	<5	<5	<5	<5	NR	ND
10	9/5/91	PB-2	5.5	<20	<5	<5	<5	<5	<10	<5	<5	<5	<20	<5	<5	<5	<5	NR	ND
			8.0	<20	5	<5	<5	<5	<10	<5	4	4	<20	<5	<5	<5	<5	NR	ND
12	4/13/94	T1	8.0	<20	<5	<5	<5	<5	<10	NR	NR	NR	<10	<5	<10	<5	<5	<5	ND
12	4/13/94	T2	8.5	110	<5	<5	<5	<5	<10	NR	NR	NR	20	<5	<10	<5	<5	<5	ND
12	4/13/94	T3	8.0	70	4	<5	<5	<5	<10	NR	NR	NR	10	<5	<10	<5	<5	<5	ND
			14.5	100	<5	<5	<5	<5	<10	NR	NR	NR	20	<5	<10	<5	<5	<5	ND
12	4/14/94	T4	9.0	50	<5	<5	<5	<5	10	NR	NR	NR	8	4	<10	<5	<5	<5	ND
			14.5	160	<5	<5	<5	<5	<10	NR	NR	NR	40	<5	<10	<5	<5	<5	ND
12	4/14/94	T5	9.0	20	<5	<5	<5	<5	<10	NR	NR	NR	<10	<5	<10	<5	<5	<5	ND
			14.5	<20	12	<5	<5	<5	<10	NR	NR	NR	10	<5	<10	<5	<5	<5	ND
12	4/14/94	T6	7.5	100	<5	<5	<5	<5	6	NR	NR	NR	10	<5	<10	<5	<5	<5	ND
			14.0	<100	<30	<30	<30	<30	<50	NR	NR	NR	<50	<30	<50	<30	<30	<30	ND
12	4/14/94	T7	7.5	30	<5	<5	<5	<5	<10	NR	NR	NR	9	<5	<10	<5	<5	<5	ND
			14.0	<1,000	600	<300	<300	500	7,800	NR	NR	NR	<500	<300	<600	<300	<300	<300	ND
12	4/13/94	MW9	8.5	70	<5	<5	<5	<5	6	NR	NR	NR	10	<5	<10	<5	<5	<5	ND
			15.5	140	4	<5	<5	<5	<10	NR	NR	NR	20	<5	<10	<5	<5	<5	ND
12	4/14/94	MW10	9.5	30	<5	<5	<5	<5	<10	NR	NR	NR	<10	<5	<10	<5	<5	<5	ND
			15.5	320	<10	<10	<10	<10	11	NR	NR	NR	120	20	40	<10	<10	<10	ND

1 micrograms per kilogram

2 Analysis include one or more of the following: EPA 8010, EPA 8020, or EPA 8240

3 Test not requested

4 Not reported

5 Not detected at concentrations above the reporting limits

Table 5
Semi Volatile Organic Chemical Concentrations in Soils

Reference No.	Date	Boring	Depth (feet)	Benzo(k) Fluor-anthene (µg/kg)[1]	2-Methyl-Naphthalene (µg/kg)	Naphthalene (µg/kg)	Phen-anthrene (µg/kg)	Pyrene (µg/kg)	Bis (2-ethylhexyl) Phthalate (µg/kg)	4-Methyl Phenol (µg/kg)	1,2,4 Tri chloro benzene (µg/kg)	Other EPA 8270 Compounds (µg/kg)
11	10/5/89	SS-1-E		<200	<200	<200	<200	<200	<2,000	<200	<200	ND[2]
		SS-2-W		<30	<30	<30	<30	<30	<300	<30	<30	ND
		SS-3-E		<30	<30	<30	<30	<30	<300	200	200	ND
		SS-4-W		<200	<200	<200	<200	<200	<2,000	<200	<200	ND
		SS-5-E		<200	1,000	300	<200	<200	<2,000	<200	<200	ND
		SS-6-W		<200	<200	<200	<200	<200	<2,000	<200	<200	ND
7	1/3/90	MW8	4.0	<300	<300	<300	<300	<300	<2,000	<300	<300	ND
			9.0	<300	<300	<300	<300	410	<2,000	<300	<300	ND
12	4/13/94	T2	6.0	200	<300	<300	<300	<300	<300	<300	<300	ND
12	4/14/94	T5	5.0	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	<3,000	ND
			9.0	<300	<300	<300	<300	<300	400	<300	<300	ND
12	4/14/94	T7	7.5	<300	<300	<300	<300	<300	<300	<300	<300	ND
12	4/14/94	MW9	15.5	<300	<300	<300	<300	<300	400	<300	<300	ND
12	4/14/94	MW10	15.5	<2,000	<2,000	<2,000	1,600	<2000	<2,000	<2,000	<2,000	ND

1 micrograms per kilogram

2 Not detected at concentrations above the reporting limits

Table 6
Heavy Metal Concentrations[1] in Soils

Reference No.	5	5	5	5	5	5	12	12	12	12	7	7	12	12
	B1-5.5	B1-10.5	B1-16.0	B1-20.5	B1-25.5	B1-30.5	T2-6.0	T5-5.0	T5-9.0	T7-7.5	MW8-4.0	MW8-9.0	MW9-15.5	MW10-15.5
Antimony	<1	<1	4	<1	<1	<1	5.1	<2.9	<3	<3	<10	<10	<3	4.4
Arsenic	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	9.3	6	<2.5	4.2	<16	<16	4.2	19
Barium	92	21	78	61	67	23	170	130	41	150	42	85	190	140
Beryllium	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.23	0.31	<0.10	0.45	0.16	0.15	0.43	0.21
Cadmium	1.4	0.6	12	2.4	2	1.2	1	0.27	<0.25	0.28	<0.7	<0.7	<0.25	3.3
Chromium	13	12.5	42	15	10	9.9	25	25	23	27	27	9.6	26	59
Cobalt	5.7	2.6	12.4	4.5	8	3.6	8.7	9.2	4.2	10	2.8	<2	12	10
Copper	28	4	15.3	23	13	7.4	2,100	60	14	40	18	41	30	330
Lead	61	3	160	77	8	4.5	330	61	1.5	6.1	<12	24	19	250
Mercury	<5	<5	<5	<5	<5	<5	<0.087	0.21	<0.087	<0.087	<0.009	0.36	<0.083	0.77
Molybdenum	<1	<1	2.4	<1	<1	<1	1.5	<0.98	<1	<0.99	<1	<1	<1	3.1
Nickel	14	12.7	30	19	24	22	55	28	19	37	18	6.8	36	37
Selenium	<5	<5	<5	<5	<5	<5	<2.5	<2.5	<2.5	<2.5	<0.2	<0.2	<2.5	<2.5
Silver	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.49	<0.5	<0.5	<0.4	<0.4	<0.5	1.1
Thallium	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.5	<2.5	<2.5	<2.5	<10	<10	<2.5	<2.5
Vanadium	15	7	32	12	12	6.7	26	26	15	27	15	8.5	27	24
Zinc	94	5.4	6,040	106	27	15	580	88	18	62	75	120	61	530

1 Concentrations in micrograms per kilogram

Table 7
Petroleum Hydrocarbon Concentrations in Groundwater

Reference No.	Date	Well	Total Recoverable Hydrocarbons (mg/l)	Oil and Grease (mg/l)	TEH (mg/l)	TVH (mg/l)
5	7/6/89	MW-1	--	--	<0.5	<0.5
5	9/7/89		--	<10	<0.5	<0.5
8	1/10/90		0.5	--	<10	<10
12	5/20/93		--	<5	--	--
12	8/25/93		--	<5	--	--
12	11/18/93		--	<5	--	--
12	2/25/94		--	<5	--	--
	8/8/94		--	<5	<0.05	<0.05
5	9/7/89	MW-3	--	<10	<0.5	<0.5
8	1/10/90		0.6	--	<10	<10
12	5/20/93		--	<5	--	--
12	8/25/93		--	<5	--	--
12	11/18/93		--	<5	--	--
12	2/25/94		--	<5	--	--
12	4/21/94		--	<5	0.43	0.06
	8/8/94		--	<5	1.2	<0.05
8	1/10/90	MW-8	103	--	<10	<10
9	12/10/90		10.5	--	--	--
12	5/20/94		--	<5	--	--
12	8/25/93		--	<5	--	--
12	11/18/93		--	14	--	--
12	2/25/94		--	<5	--	--
12	4/21/94		--	<5	2.8	5.9
	8/8/94		--	<5	3.6	7.2
12	4/21/94	MW-9	--	<5	0.68	0.92
	8/8/94		--	<5	1.2	0.86
12	4/21/94	MW-10	--	<5	2.1	0.68
	8/8/94		--	<5	4.4	0.61

TEH = Total extractable hydrocarbons
TVH = Total volatile hydrocarbons
mg/L = milligrams per liter
-- = test not requested

Volatile Organic Chemical Concentrations in Groundwater

Reference No.	Well	Date	4-Methyl-2 Pentanone (µg/l)[1]	Vinyl Chloride (µg/l)	Acetone (µg/l)	2-Butanone (µg/l)	4-Methyl-2 Pentanol (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl benzene (µg/l)	Xylene (µg/l)	Trans-1,2 Dichloro-ethene (µg/l)	Other EPA 8240 Compounds (µg/l)
3	Sump-Well	8/21/89	<20	<4	<20	<20	NR[2]	<2	<2	<3	<3	<3	ND[3]
5	MW1	7/6/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
5		9/7/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
8		1/10/90	NR	<30	NR	NR	NR	<5	<5	<5	<5	<5	ND
10		9/5/91	<10	<10	<20	<20	NR	7	8	<5	3	<5	ND
12		5/20/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		8/25/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		11/18/93	<10	<10	<40	<10	NR	<5	<5	<5	<5	<5	ND
12		2/25/94	<10	<10	<10	<10	NR	<5	<5	<5	<5	<5	ND
		8/8/94	<10	<10	<10	<10	NR	<5	<5	<5	<5	<5	ND
5	MW3	9/7/89	<20	<4	<20	<20	NR	<2	<2	<3	<3	<3	ND
8		1/10/90	NR	<30	NR	NR	NR	<5	<5	<5	<5	<5	ND
10		9/5/91	<10	<10	<20	<20	NR	<5	<5	<5	<5	<5	ND
12		5/20/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		8/25/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		11/18/93	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12		2/25/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
		8/8/94	<10	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
8	MW8	1/10/90	160,000[4]	<6,000	NR	NR	NR	2,100	<1,000	<1,000	<1,000	<1,000	ND
9		12/10/90	47,000[4]	<150	3,200[4]	10,000[4]	130,000[4]	160	<25	<25	<25	<25	ND
10		9/5/91	150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000	<5,000	<5,000	<5,000	ND
12		5/20/93	100,000	<5,000	<10,000	<5,000	NR	<3,000	<3,000	<3,000	<3,000	<3,000	ND
12		8/25/93	48,000	<3,000	<5,000	<3,000	NR	<1,000	<1000	<1000	<1000	<1000	ND
12		11/18/93	840	<50	<100	<50	NR	<25	<25	<25	<25	<25	ND
12		2/25/94	14,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
12		4/21/94	19,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
		5/11/94	140,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
		8/8/94	61,000	<1,000	<2,000	<1,000	NR	<500	<500	<500	<500	<500	ND
12	MW9	4/21/94	120	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
		8/8/94	—	<10	<20	<10	NR	<5	<5	<5	<5	<5	ND
12	MW10	4/21/94	23	<10	<20	<10	NR	22	<5	<5	<5	<5	ND
		8/8/94	—	<10	<20	<10	NR	14	<5	<5	<5	<5	ND

1 micrograms per liter
2 Not reported
3 Not detected at concentrations above the reporting limits
4 Tentatively identified compound concentrations

Table 9
Semi-Volatile Organic Chemical Concentrations in Groundwater

Refernce No.	Date	Well	2,4 Dimethylphenol (µg/l)[1]	Naphthalene (µg/l)	2-Methyl Naphthalene (µg/l)	Bis (2-Ethylhexyl) Phthalate (µg/l)	Other EPA 625 Chemicals (µg/l)
5	9/7/89	MW1	<1	<1	<1	40	ND[2]
8	1/10/90		<20	<20	<20	<100	ND
5	9/7/89	MW3	<1	<1	<1	80	ND
8	1/10/90		<20	<20	<20	<100	ND
8	1/10/90	MW8	<150	<150	<150	<750	ND

1 micrograms per liter

2 Not detected at concentrations above the reporting limits

Table 10
Heavy Metal Concentrations in Groundwater

Reference No.	5
	MW1 (7/6/89) [1] (mg/l) [2]
Antimony	<0.04
Arsenic	<0.088
Barium	0.6
Beryllium	<0.001
Cadmium	0.013
Chromium	0.064
Cobalt	0.021
Copper	0.04
Lead	0.063
Mercury	<0.2
Molybdenum	<0.04
Nickel	0.1
Selenium	0.2
Silver	0.022
Thallium	<0.088
Vanadium	0.06
Zinc	0.18

1 Sample Date
2 Milligrams per liter

Table 11
Nutrient Concentrations in Soil

	T4 - 8.5 (4/14/94)[1]	T5 - 8.5 (4/14/94)	T7 - 13.5 (4/14/94)
Ammonia (ppm)[2]	41	18	33
Nitrate (ppm)	10	7	6
Phosphorous (ppm)	160	14	19
Potasium (ppm)	269	115	46
pH	6.9	8.4	8.6
Redox (mV)[3]	263.6	286.1	293.9
Spread plate count (cfu/gm)[4]	6880	1060	51300
Pseudomonad count (cfu/gm)	3510	354	16000
Moisture content (%)	18.7	3.69	22.08

1 Sample Date
2 parts per million
3 millivolts
4 Colony forming units/gram

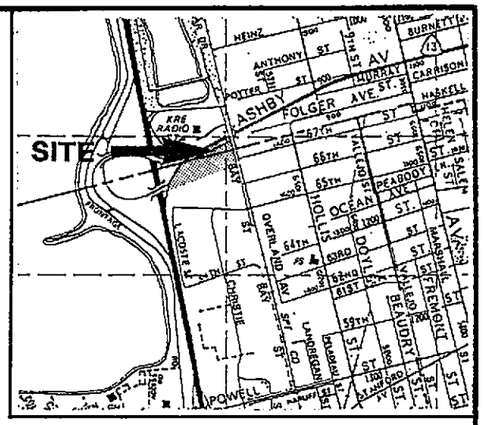
Table 12
Nutrient Concentrations in Grounwater

	MW-3 (4/21/94)[1]	MW-8 (4/21/94)	MW-10 (4/21/94)
Ammonia (ppm)[2]	0.65	14.15	12.18
Potassium (ppm)	5.6	28.07	17.84
Sodium (ppm)	50.7	134.2	72.4
Calcium (ppm)	233.6	108	84
Magnesium (ppm)	68.04	53.46	58.32
Iron (ppm)	9.55	9.8	7.2
Maganese (ppm)	4.11	0.71	0.77
Total Cations (meq/l)[3]	20.453	17.749	13.788
Bicarbonate (ppm)	952	1332	1468
Carbonate (ppm)	<1	<1	<1
Chloride (ppm)	352	928	524
Nitrate (ppm)	1.33	4.43	2.22
Phosphate (ppm)	4.36	6.25	5.13
Sulfate (ppm)	36	17	10
Boron (ppm)	1.3	2.8	1.4
Total Anions (meq/l)	26.515	48.892	39.381
pH	7.1	7.5	7.7
Total Dissolved Solids (ppm)	1718.6	2624.7	2251.3
Electrical Conductivity (mnhos/cm)[4]	3.02	5.12	3.76
Dissolved Oxygen (mg/l)	2.41	1.3	0.81
Redox (mV)	356.2	148.5	285.2
Heterotrophic plate count (cfu/ml)[5]	850	11300	57000
Pseudomonad count (cfu/ml)	92	2900	43000

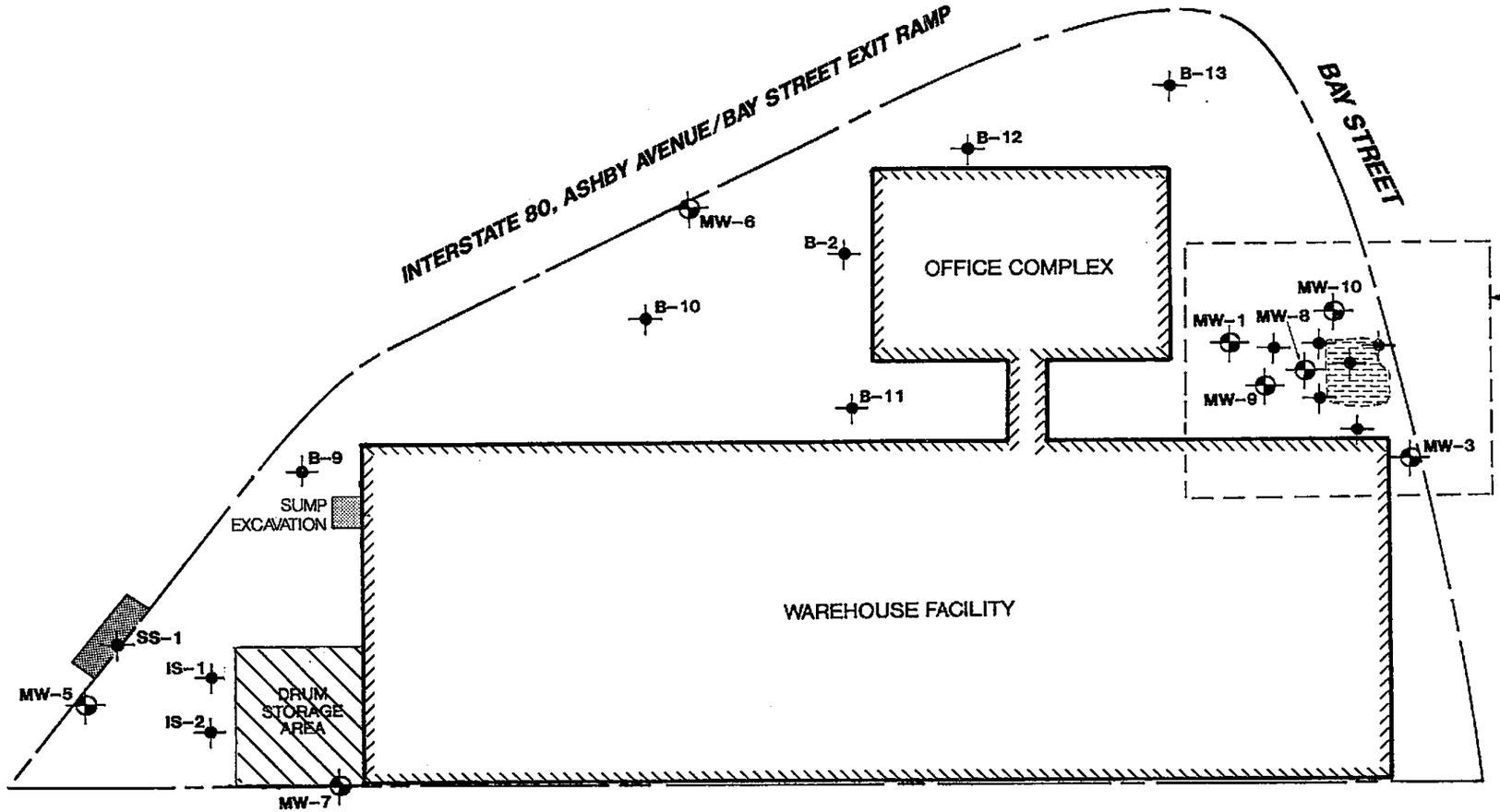
1 Sample Date
2 parts per million
3 milliequivalents per liter
4 millimhos/centimeter
5 colony forming units/milliliter

Table 13
List of Documents Reviewed

Reference No.	Date	Document	Company
1	7/10/89	Environmental Site Assessment and Subsurface Evaluation	L & W Environmental Services, Inc.
2	8/11/89	Preliminary Environmental Assessment and Soil Quality Investigation	Kaldveer Associates
3	8/21/89	Chain of Custody and Analytical Test Reports	L & W Environmental Services, Inc.
4	9/13/89	Analytical Test Report	Clayton Environmental Consultants,
5	9/26/89	Environmental Site Assessment - Phase 2 Subsurface Evaluation	L & W Environmental Services, Inc.
6	11/3/89	Final Report/Tank Removal	L & W Environmental Services, Inc.
7	1/30/90	Environmental Assessment Report	SCS Engineers
8	2/26/90	Soil Vapor Recovery and Groundwater Remediation Systems Report	SCS Engineers
9	1/7/91	Groundwater Analysis	SCS Engineers
10	12/9/91	Letter Report	PES Environmental
11	9/18/89 12/13/89	Tank Excavation Sample Analytical Test Reports	L & W Environmental Services, Inc.
12	6/14/93	Quarterly Groundwater Monitoring and Treatment System Decomissioning	Subsurface Consultants, Inc.
	9/15/93	Quarterly Groundwater Monitoring	
	1/8/94	Quarterly Groundwater Monitoring	
	4/5/94	Quarterly Groundwater Monitoring	
	5/16/94	Supplemental MIBK Contamination Assessment (Draft)	



VICINITY MAP



SEE PLATE 2
(INCLUDES LOCATIONS OF SAMPLES/BORINGS SS-1 THROUGH SS-6, PB-1 AND 2 AND T-1 THROUGH T-7)

- MONITORING WELL
- TEST BORING
- SOIL EXCAVATION
- TANK EXCAVATION
- PROPERTY LINE

N

APPROXIMATE SCALE (feet)
0 50 100

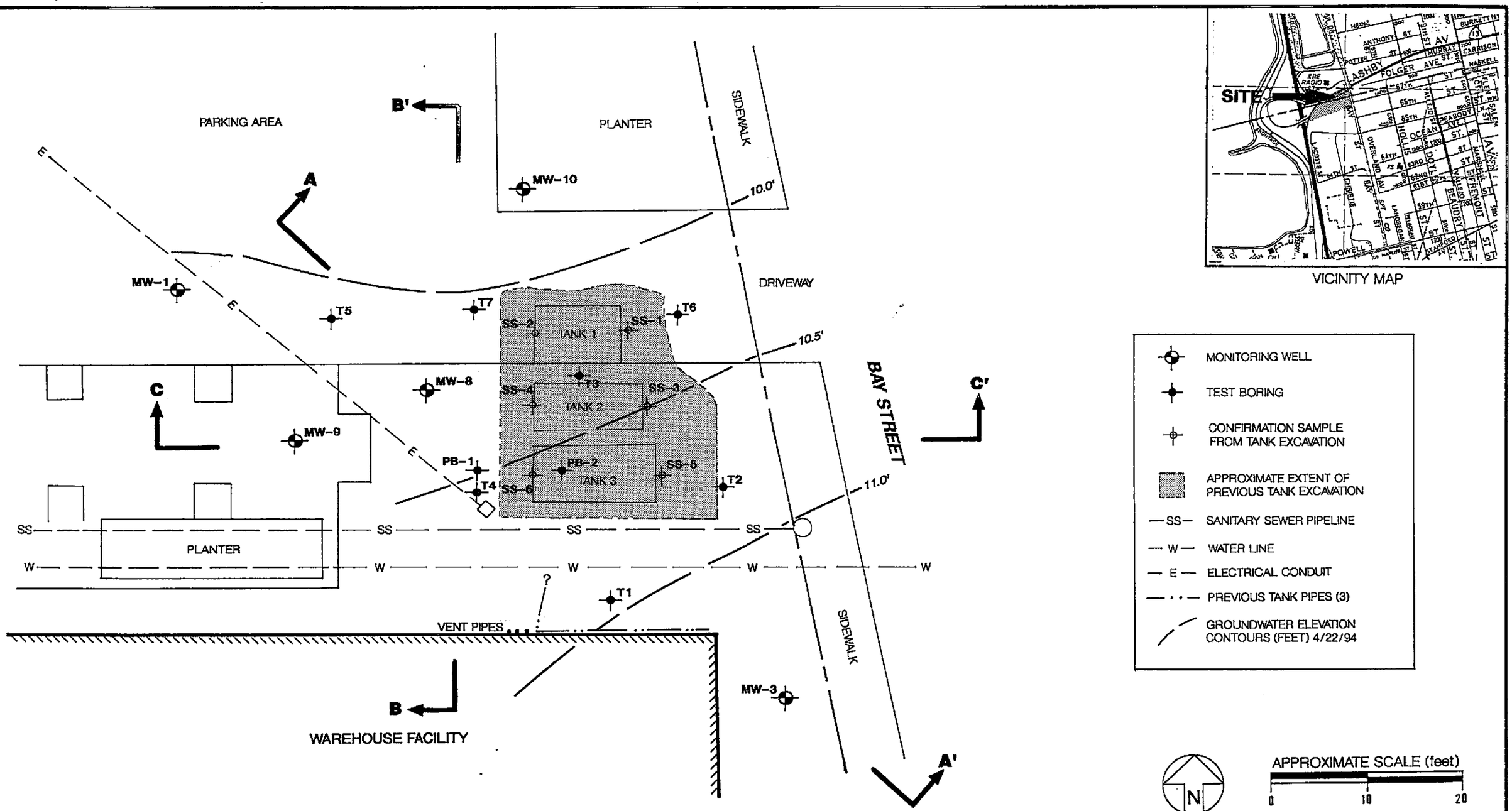
SITE PLAN

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6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
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PLATE 1



TANK AREA PLAN

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JOB NUMBER	DATE	APPROVED
820.001	4/27/94	

PLATE 2

LOG OF TEST BORING T 1

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/13/94
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			DARK BROWN SILTY SANDY CLAY (CL) medium stiff, moist, with gravel (fill)
			0				YELLOW BROWN SANDY GRAVEL (GP) medium dense, moist (fill)
						17	MOTTLED BROWN CLAYEY SANDY GRAVEL (GC)
			0	5		7	medium dense, moist, with asphalt and concrete fragments (fill)
			0				DARK GRAY BROWN SILTY CLAY (CL/CH)
						11	stiff, moist, with glass fragments (fill)
			0	▼		4	GROUNDWATER LEVEL DURING DRILLING
			10	10		4	GRAY CLAYEY SILTY SAND (SM) loose to medium dense, moist, with gravel (fill)
						3	
				15			Boring backfilled with cement grout

LOG OF TEST BORING T 2

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/13/94
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			BROWN SILTY SAND (SM) loose to medium dense (fill)
							GRAY BROWN SANDY GRAVEL (GM)
						36	medium dense, moist (fill)
			0	5			BROWN CLAYEY SAND (SC)
			10			18	medium dense, moist (fill)
							OLIVE GRAY SANDY SILTY CLAY (CL)
			0			7	soft, moist (fill)
				▼			GROUNDWATER LEVEL DURING DRILLING
				10		4	
			0			2	
							BROWN AND BLACK SILTY SAND (SM) loose, wet
				15		2	Boring backfilled with cement grout

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820.001	4/27/94	

PLATE 3

LOG OF TEST BORING T 3

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/13/94
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			BROWN SILTY SAND (SM) loose, moist (fill)
						7	BROWN CLAYEY SAND (SC) medium dense, moist, with gravel and concrete fragments and plastic (fill)
				5		8	asphalt at 5 feet
							BLACK CLAYEY SAND (SC) loose, wet (fill)
						2	GROUNDWATER LEVEL DURING DRILLING
			25			4	
			3	10		5	MOTTLED GRAY SANDY SILTY CLAY (CL) soft to medium stiff, moist, with organic material
			0				
			0				
				15		3	Boring backfilled with cement grout

LOG OF TEST BORING T 4

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/14/94
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			BROWN CLAYEY SAND (SC) medium dense, moist, with concrete fragments and gravel (fill)
			0			35	
				5		14	
							GRAY SILTY CLAY (CL) medium stiff, moist, with sand (fill)
						8	
						15	GROUNDWATER LEVEL DURING DRILLING
			6	10		23	GRAY AND BROWN CLAYEY SILTY SAND (SM) medium dense, moist, with gravel, glass and wood fragments (fill)
						5	BLACK CLAYEY SAND (SC) loose, wet (fill)
			4	15			Boring backfilled with cement grout

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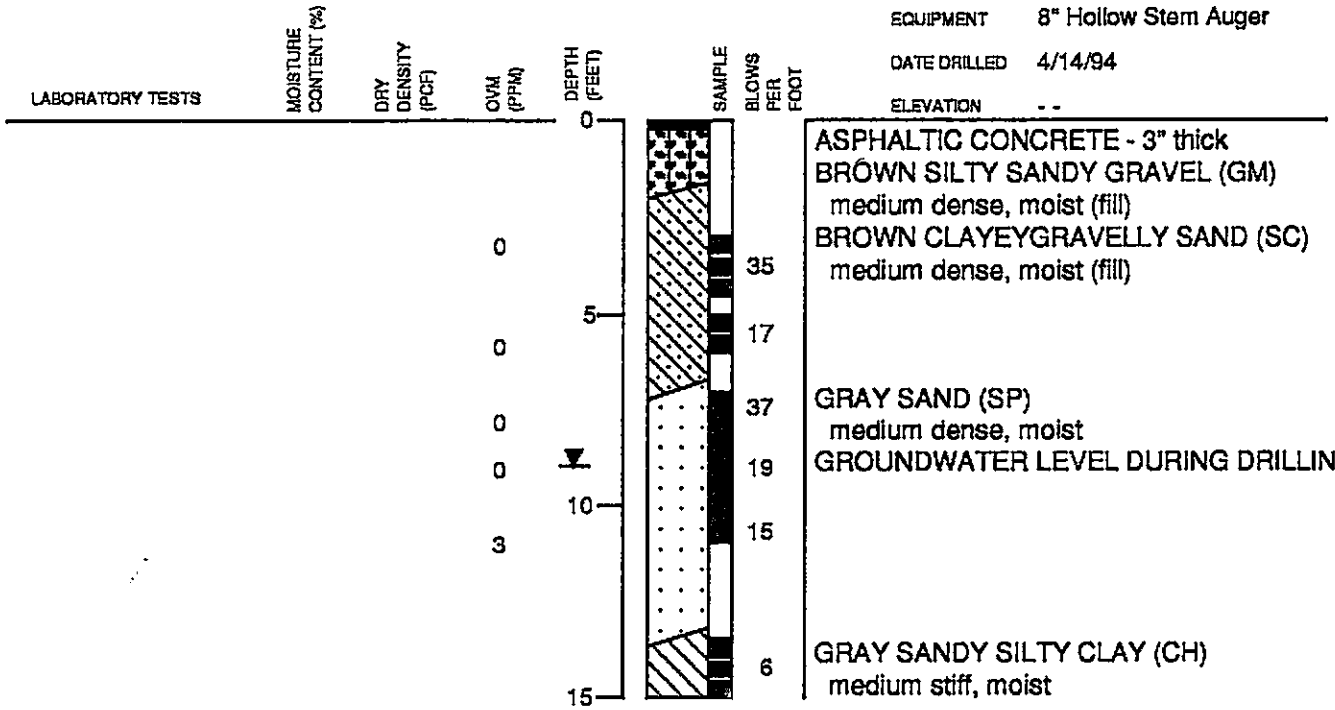
6707 BAY STREET - EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
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PLATE 4

LOG OF TEST BORING T 5

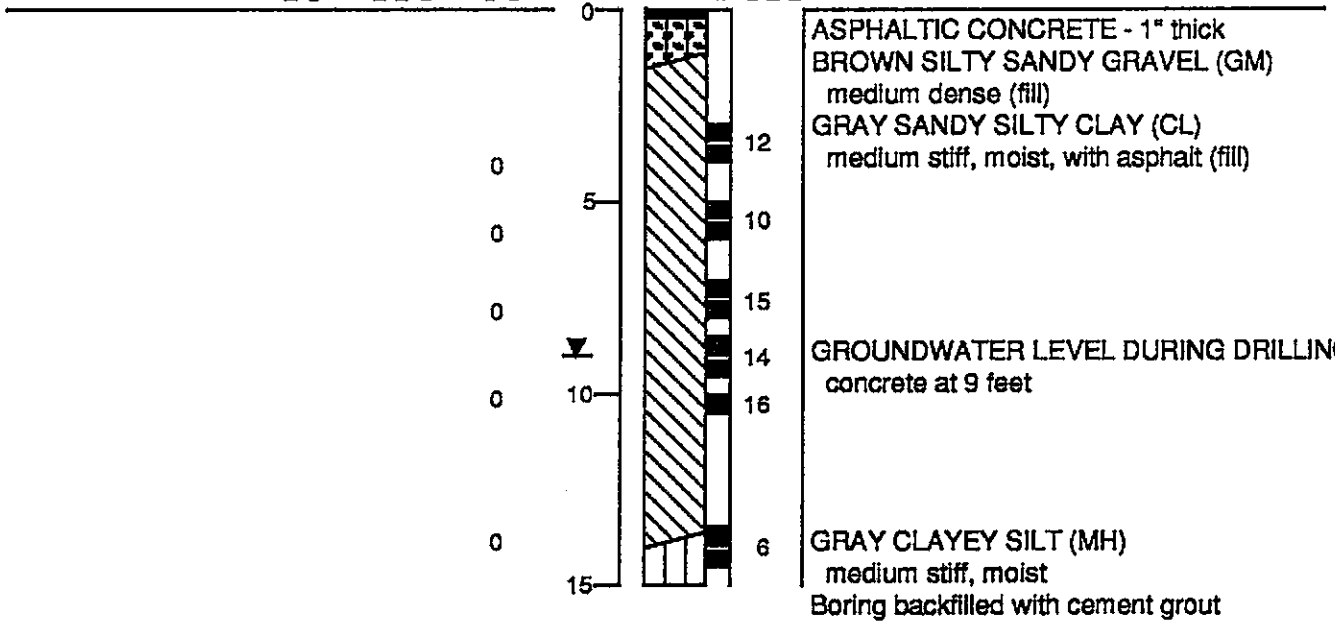
EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/14/94
ELEVATION - -



Boring backfilled with cement grout

LOG OF TEST BORING T 6

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/14/94
ELEVATION - -

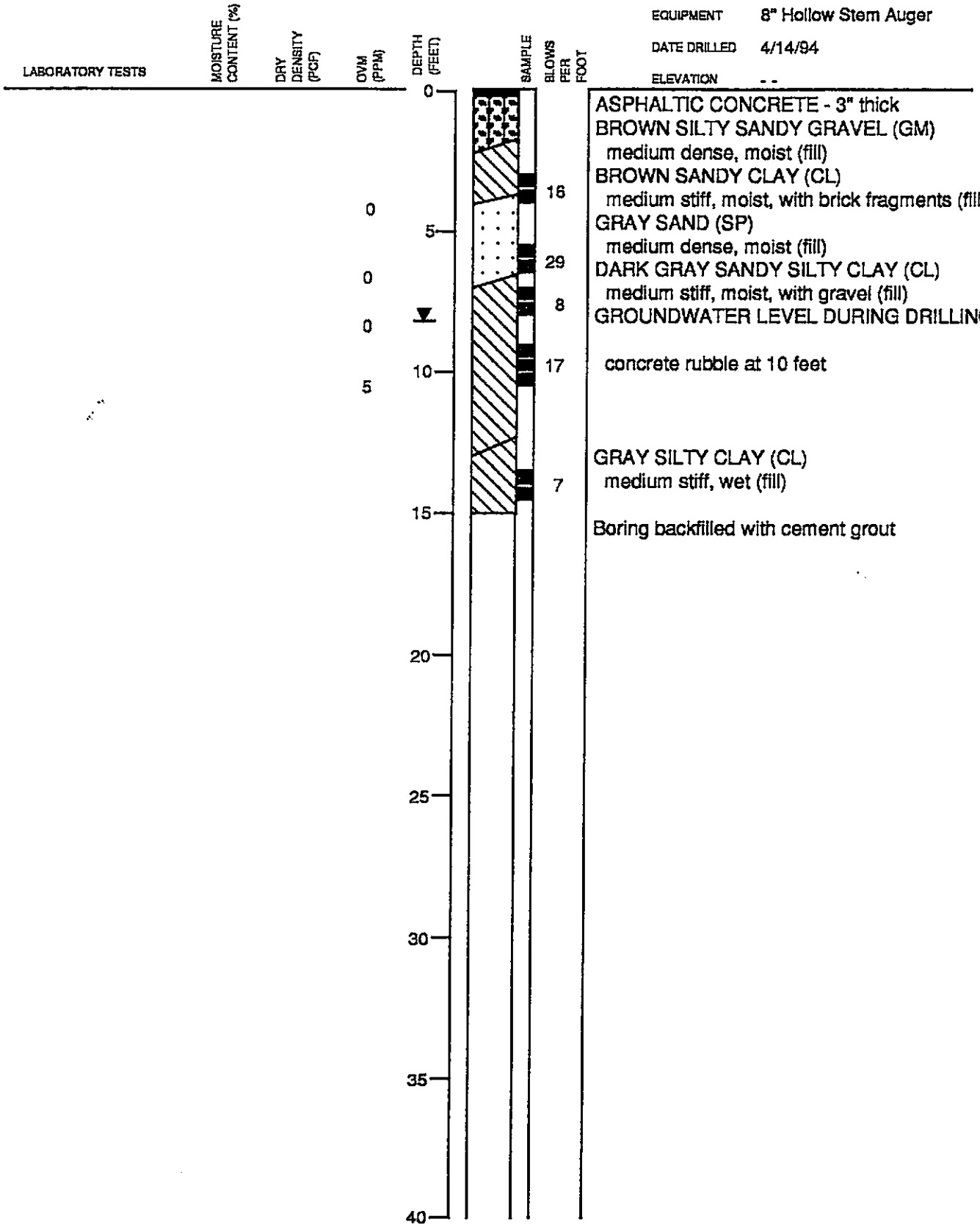


Boring backfilled with cement grout

Subsurface Consultants	6707 BAY STREET - EMERYVILLE, CA			PLATE
	JOB NUMBER	DATE	APPROVED	5
	820.001	4/27/94		

LOG OF TEST BORING T 7

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/14/94
ELEVATION - -



Subsurface Consultants

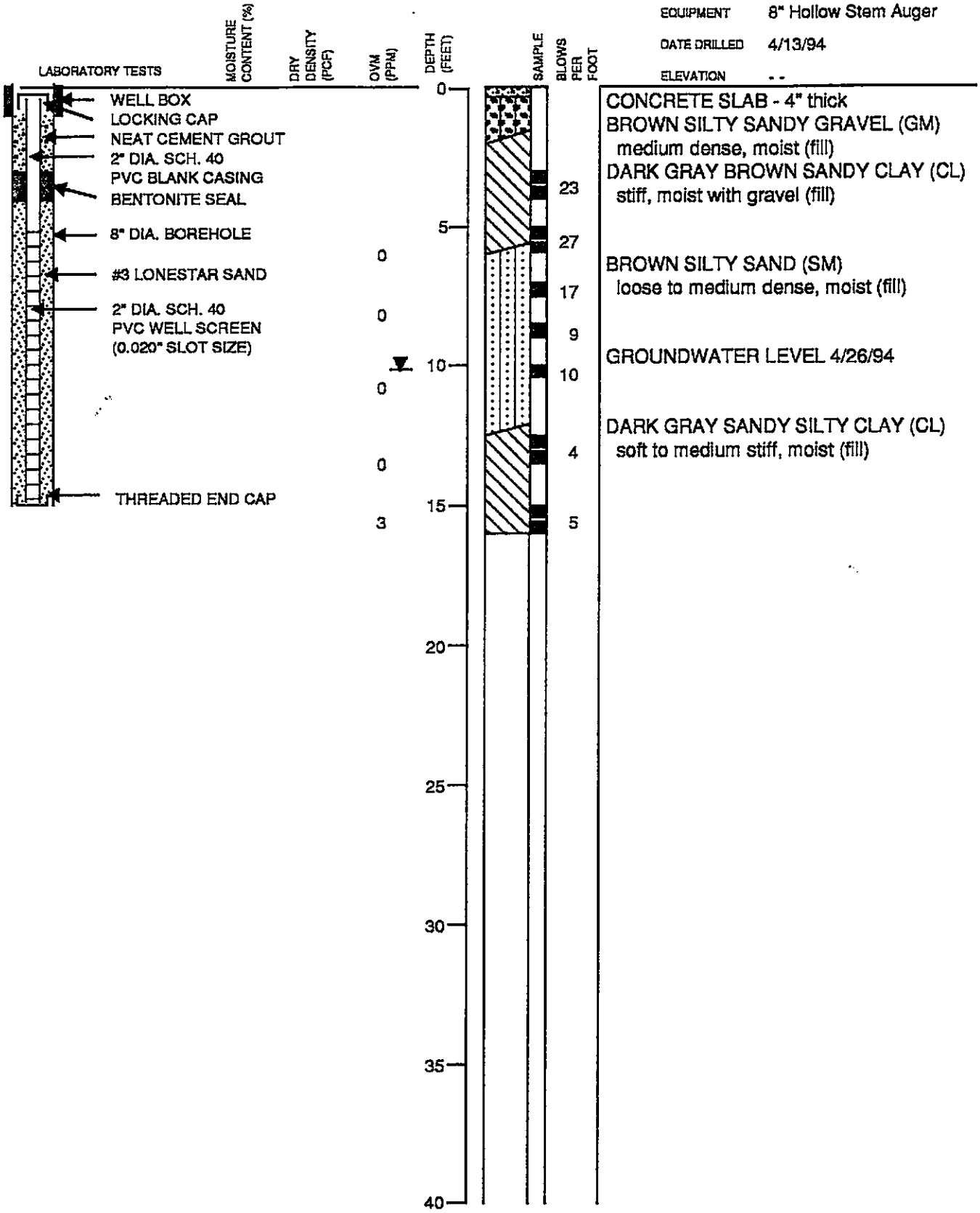
6707 BAY STREET - EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
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PLATE 6

LOG OF TEST BORING MW-9

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/13/94
ELEVATION - -



Subsurface Consultants

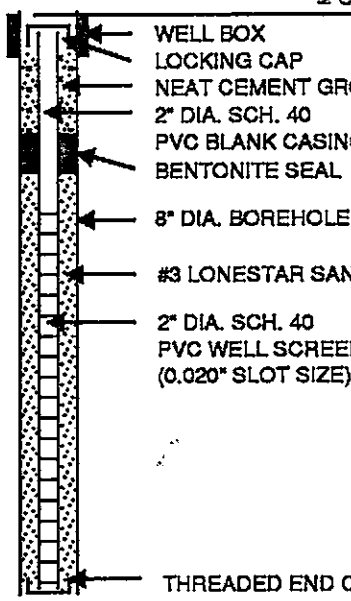
6707 BAY STREET - EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	4/27/94	

PLATE 7

LOG OF TEST BORING MW-10

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/14/94
ELEVATION - -



MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
			0			BROWN CLAYEY SAND (SC) loose, moist (fill)
		0			19	DARK BROWN SANDY CLAY (CL) medium stiff, moist (fill)
			5		23	DARK GRAY BROWN SANDY CLAY (CL) stiff, moist (fill)
					21	BROWN SAND (SP) loose to medium dense, moist (fill)
		0			9	CONCRETE RUBBLE at 9 feet
		10	10		3	GROUNDWATER LEVEL 4/26/94
						BLACK BROWN CLAYEY SANDY SILT (ML) soft, wet (fill)
					2	oily odor
						organic debris and wood fragments at 14 feet
		5	15		3	black oil sludge at 16 feet
			20			
			25			
			30			
			35			
			40			

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JOB NUMBER	DATE	APPROVED
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PLATE 8

GENERAL SOIL CATEGORIES			SYMBOLS	TYPICAL SOIL TYPES
COARSE GRAINED SOILS More than half is larger than No. 200 seive	GRAVEL More than half coarse fraction is larger than No. 4 seive size	Clean Gravel with little or no fines	GW	Well Graded Gravel, Gravel-Sand Mixtures
			GP	Poorly Graded Gravel, Gravel-Sand Mixtures
		Gravel with more than 12% fines	GM	Silty Gravel, Poorly Graded Gravel-Sand-Silt Mixtures
			GC	Clayey Gravel, Poorly Graded Gravel-Sand-Clay Mixtures
	SAND More than half coarse fraction is smaller than No. 4 seive size	Clean Sand with little or no fines	SW	Well Graded Sand, Gravelly Sand
			SP	Poorly Graded Sand, Gravelly Sand
		Sand with more than 12% fines	SM	Silty Sand, Poorly Graded Sand-Silt Mixtures
			SC	Clayey Sand, Poorly Graded Sand-Clay Mixtures
FINE GRAINED SOILS More than half is smaller than No. 200 seive	SILT AND CLAY Liquid Limit Less than 50%		ML	Inorganic Silt and Very Fine Sand, Rock Flour, Silty or Clayey Fine Sand, or Clayey Silt with Slight Plasticity
			CL	Inorganic Clay of Low to Medium Plasticity, Gravelly Clay, Sandy Clay, Silty Clay, Lean Clay
			OL	Organic Clay and Organic Silty Clay of Low Plasticity
	SILT AND CLAY Liquid Limit Greater than 50%		MH	Inorganic Silt, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silt
			CH	Inorganic Clay of High Plasticity, Fat Clay
			OH	Organic Clay of Medium to High Plasticity, Organic Silt
HIGHLY ORGANIC SOILS			PT	Peat and Other Highly Organic Soils

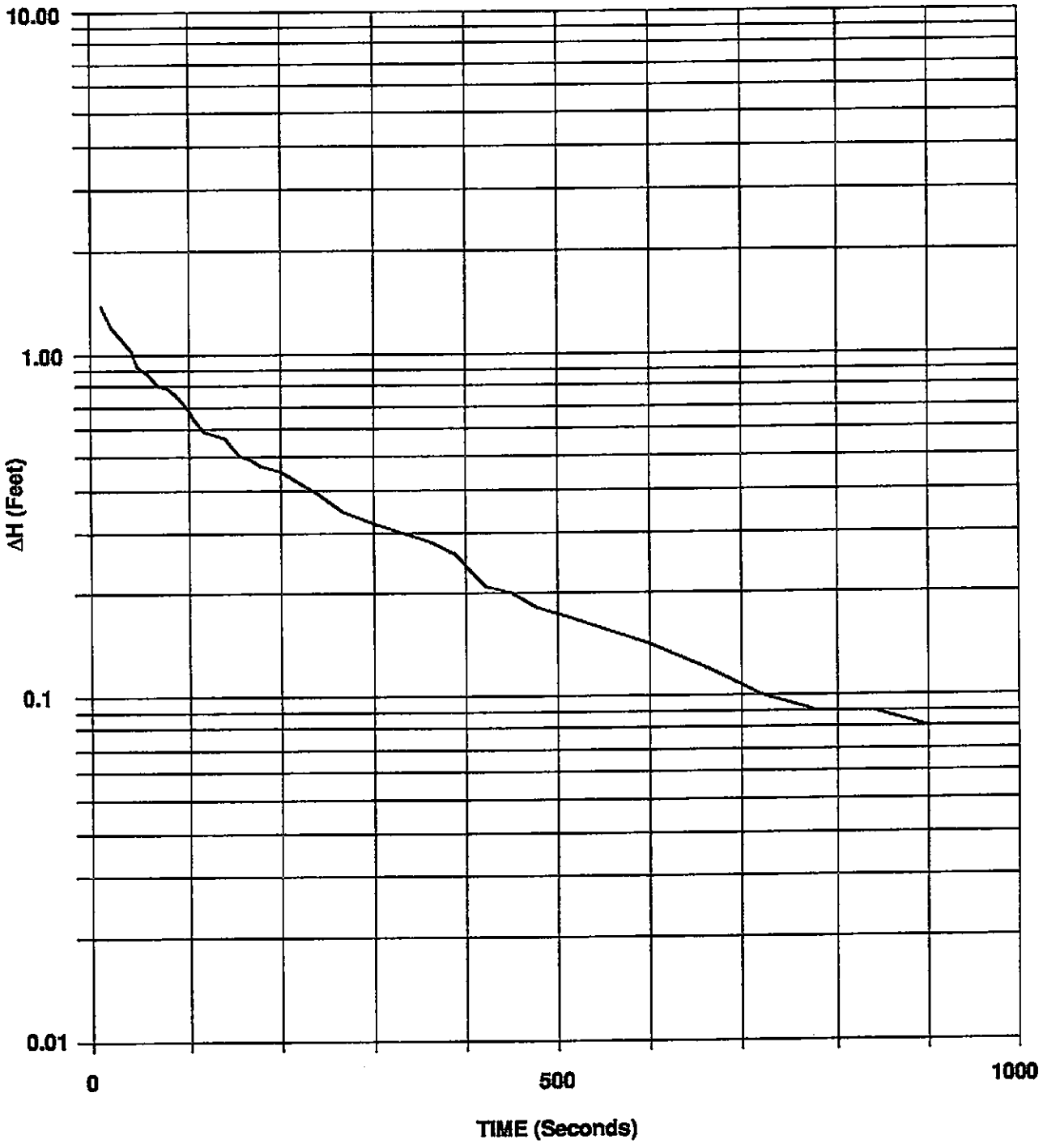
UNIFIED SOIL CLASSIFICATION SYSTEM

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PLATE 9



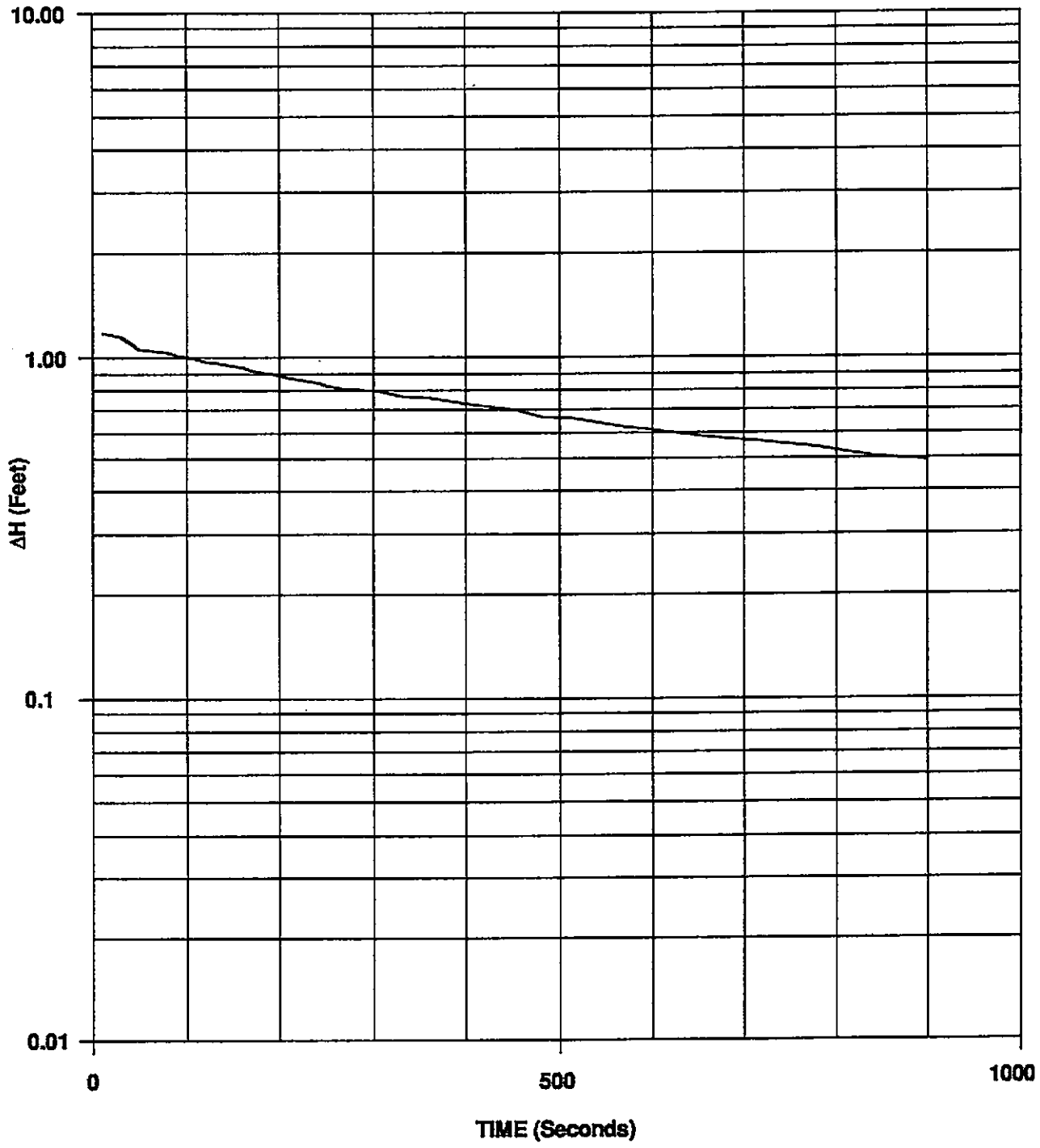
RISING HEAD TEST - MW 3

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PLATE 10



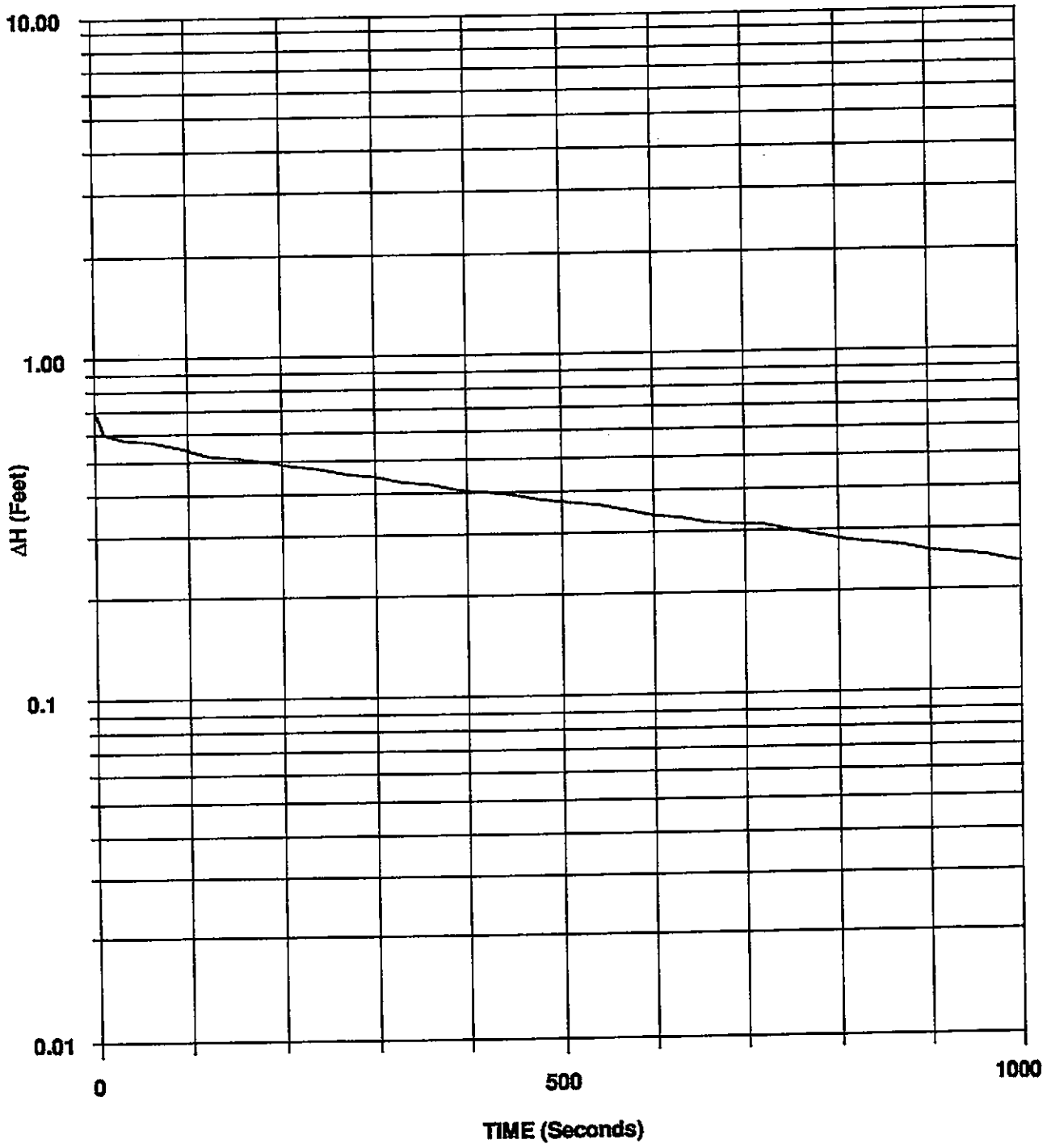
RISING HEAD TEST - MW 8

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6707 BAY STREET - EMEYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	5/10/94	

PLATE 11



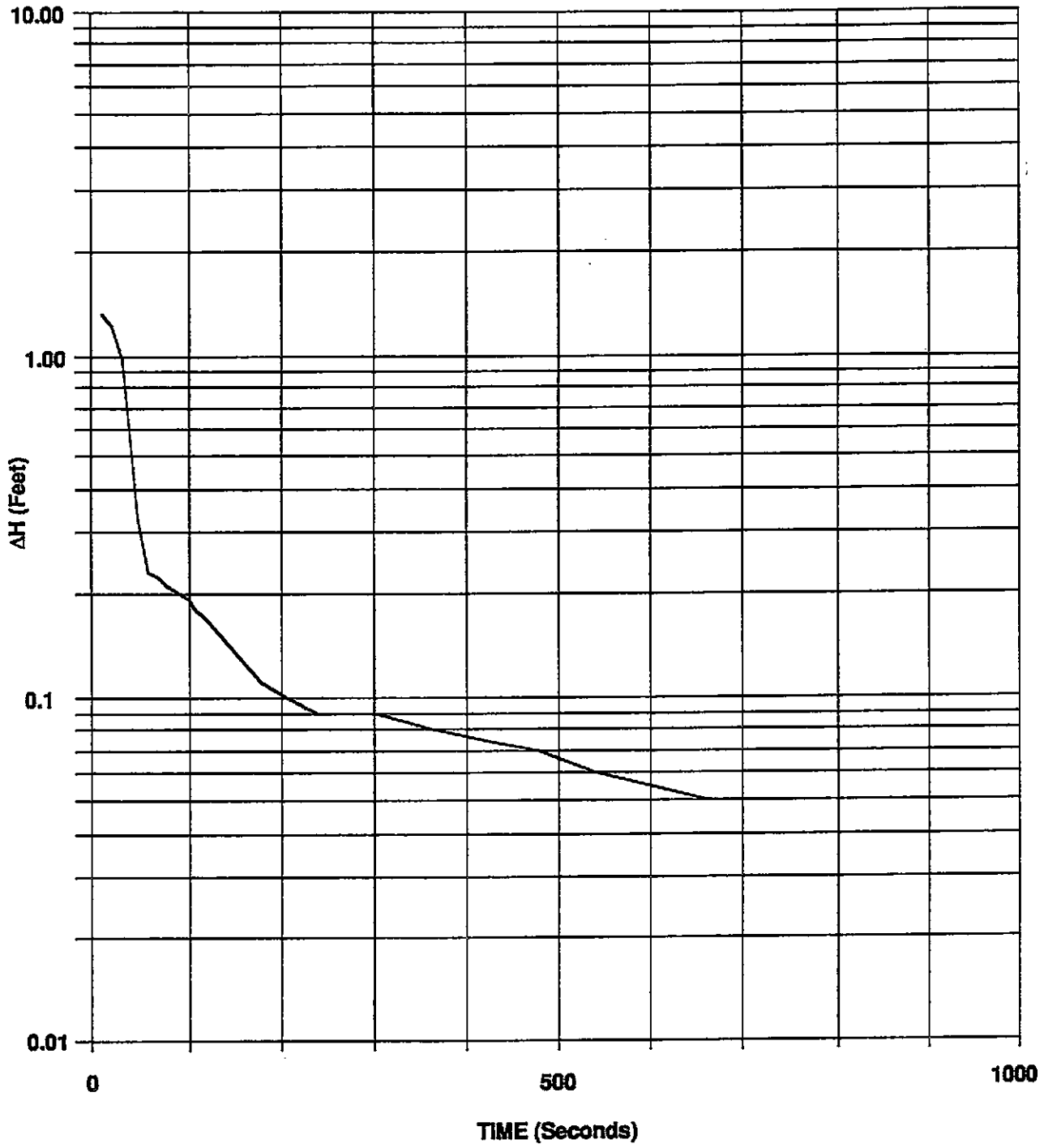
RISING HEAD TEST - MW 9

Subsurface Consultants

6707 BAY STREET - EMEYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	5/10/94	MC

PLATE 12



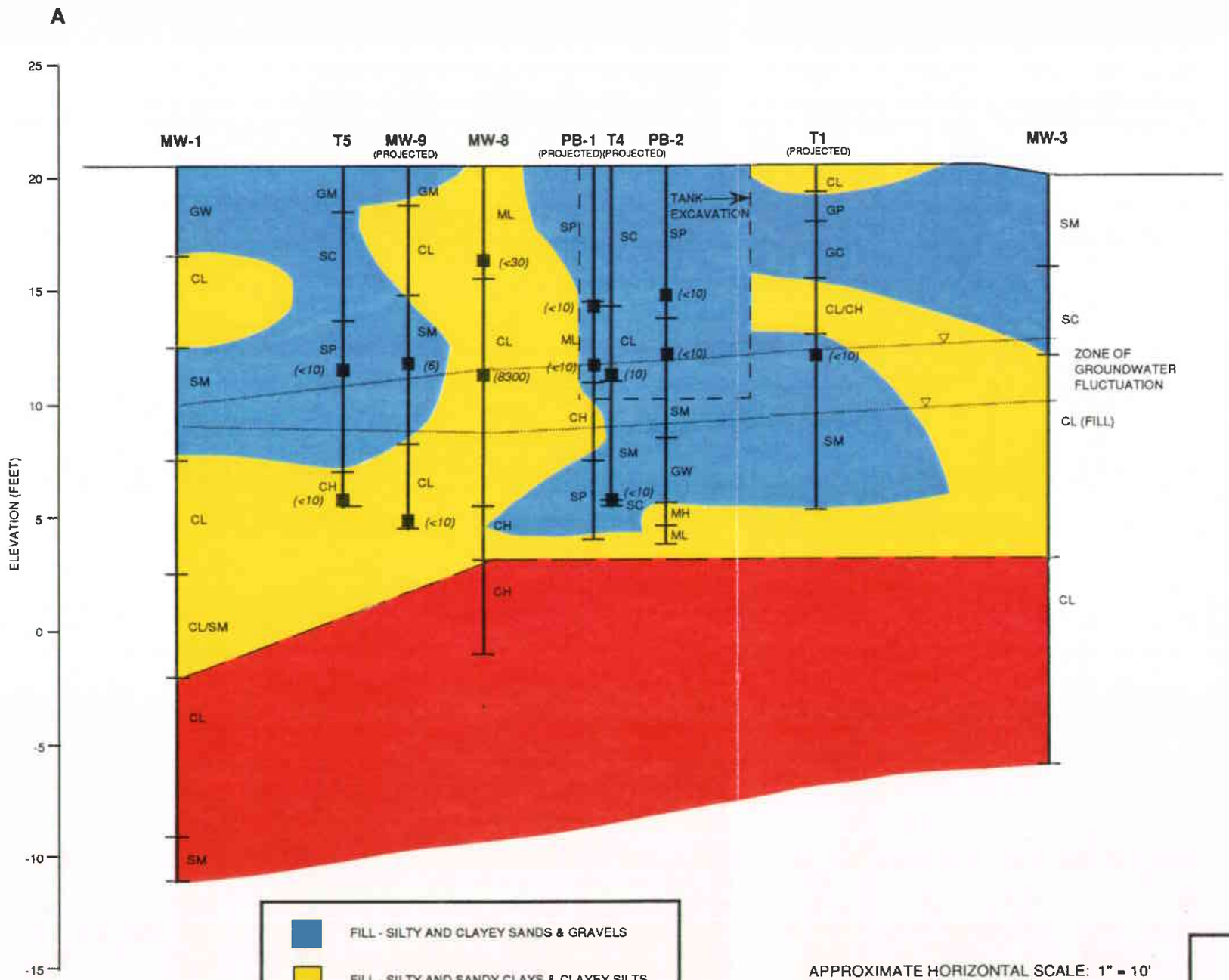
RISING HEAD TEST - MW 10

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6707 BAY STREET - EMEYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	5/10/94	MK

PLATE 13



ELEVATION REFERENCE: MSL

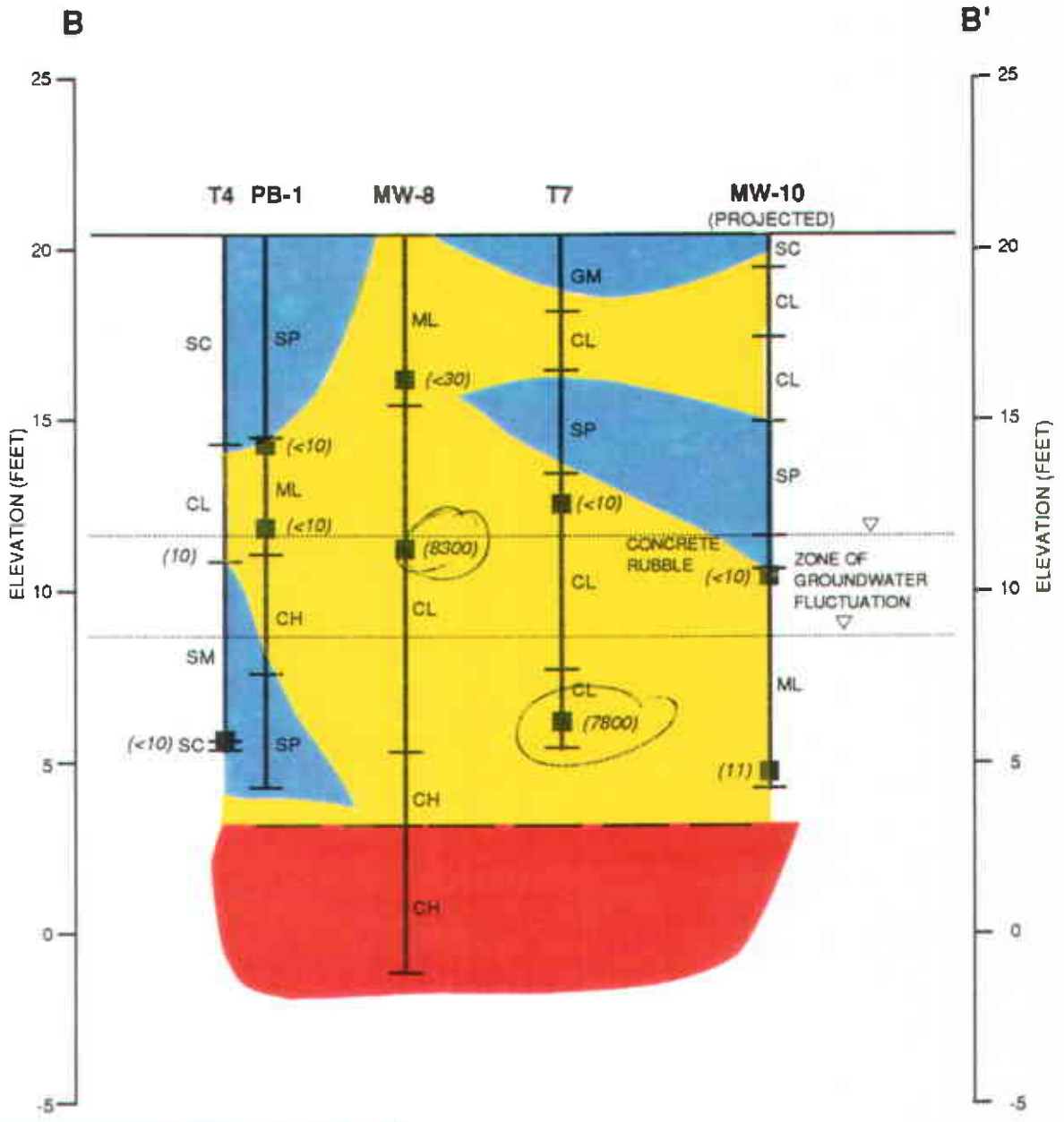
APPROXIMATE HORIZONTAL SCALE: 1" = 10'
APPROXIMATE VERTICAL SCALE: 1" = 5'

CROSS SECTION A - A'

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6707 BAY STREET - EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED	PLATE
820.001	5/6/94		14



FILL - SILTY AND CLAYEY SANDS & GRAVELS

FILL - SILTY AND SANDY CLAYS & CLAYEY SILTS

BAY AND MARSH DEPOSITS

(20) MIBK CONCENTRATION IN SOIL (µg/kg)

ELEVATION REFERENCE: MSL

APPROXIMATE HORIZONTAL SCALE: 1" = 10'
APPROXIMATE VERTICAL SCALE: 1" = 5'

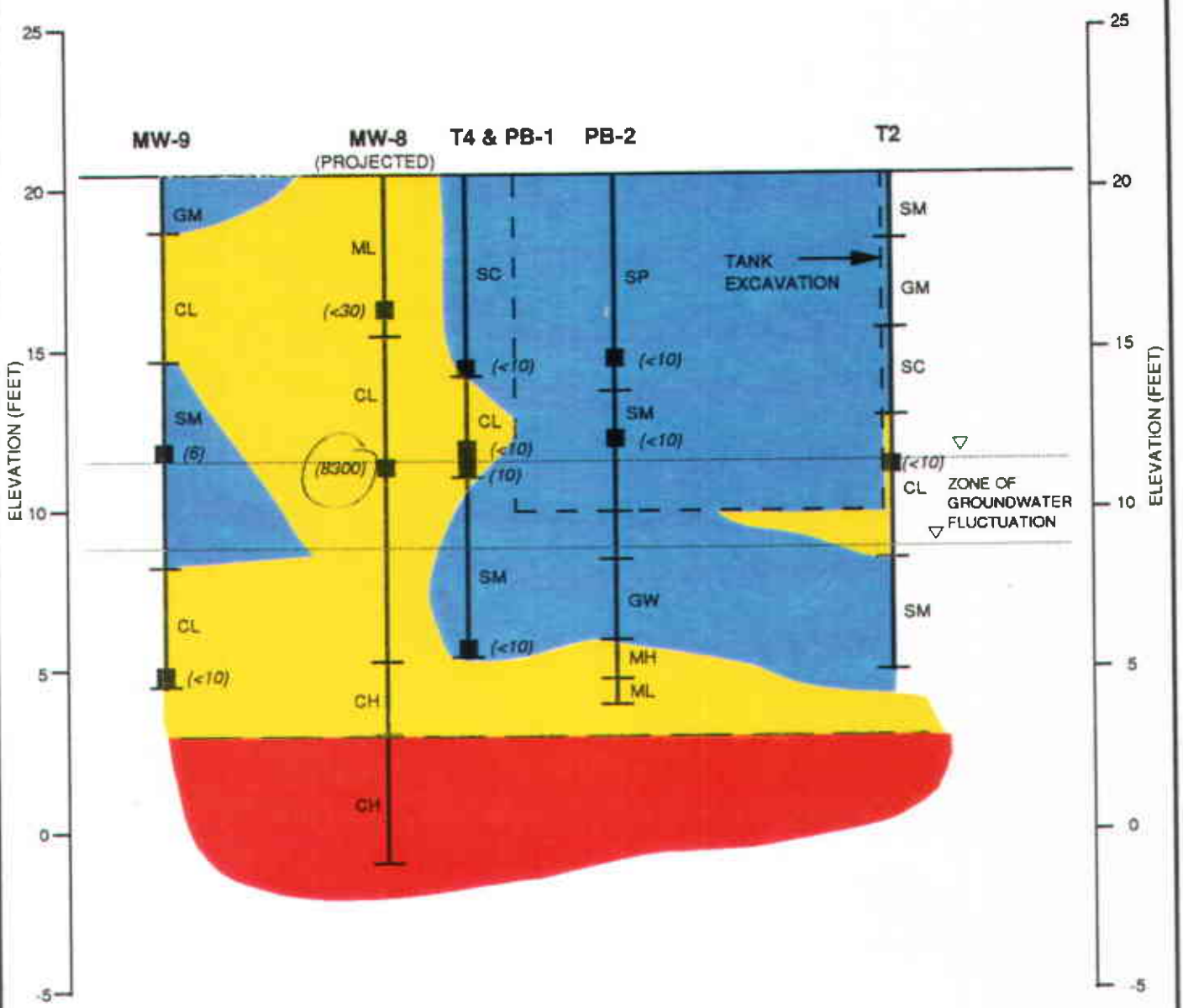
CROSS SECTION B-B'

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6707 BAY STREET - EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	5/6/94	

PLATE 15



FILL - SILTY AND CLAYEY SANDS & GRAVELS

FILL - SILTY AND SANDY CLAYS & CLAYEY SILTS

BAY AND MARSH DEPOSITS

(20) MIBK CONCENTRATION IN SOIL (µg/kg)

ELEVATION REFERENCE: MSL

APPROXIMATE HORIZONTAL SCALE: 1" = 10'
APPROXIMATE VERTICAL SCALE: 1" = 5'

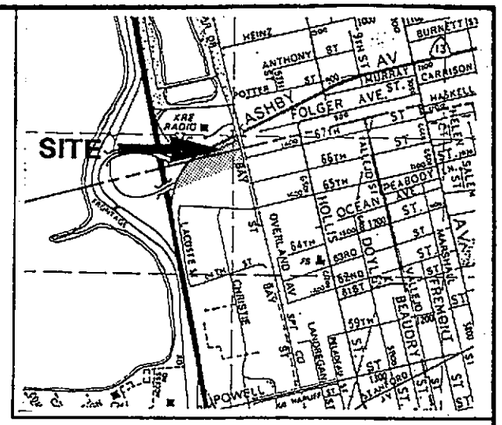
CROSS SECTION C - C'

6707 BAY STREET - EMERYVILLE, CA

Subsurface Consultants

JOB NUMBER	DATE	APPROVED
820.001	5/6/94	

PLATE 16



VICINITY MAP

PARKING AREA

PLANTER

SIDEWALK

DRIVEWAY

BAY STREET

MW-10
9.5 (<10)
15.5 (11)

MW-1

T5
9.0 (<10)
14.5 (<10)

T7
7.5 (<10)
14 (7800)

SS-2
(20)

TANK 1

SS-1
(500,000)

T6
7.5 (6)
14.0 (<50)

MW-8
4 (<30)
9 (5300)

T3
8.0 (<10)
14.5 (<10)

SS-4

TANK 2
(3,300,000)

SS-3
(<20)

MW-9
8.5 (6)
15.5 (<10)

PB-1
6.0 (<10)
8.5 (<10)

PB-2
5.5 (<10)
8.0 (<10)

TANK 3

SS-5
(150,000)

T2
8.5 (<10)

T4
9.0 (10)
14.5 (<10)

SS-6
(5,000,000)

SS — SS — SS — SS

PLANTER

W — W — W — W — W

T1
8.0 (<10)

VENT PIPES

MW-3

WAREHOUSE FACILITY

SIDEWALK

MONITORING WELL

TEST BORING

PREVIOUS TANK EXCAVATION

— SS — SANITARY SEWER PIPELINE

— W — WATER LINE

— E — ELECTRICAL CONDUIT

— · · — PREVIOUS TANK PIPES (3)

CONFIRMATION SAMPLE FROM TANK EXCAVATION

ESTIMATED 10 (µg/kg) ISOCONCENTRATION CONTOUR FOR MIBK

(20) MIBK CONCENTRATION IN SOIL PRIOR TO REMEDIATION (µg/kg)

5 (10) MIBK CONCENTRATION IN SOIL FOLLOWING REMEDIATION (µg/kg)

SAMPLE DEPTH (feet)

N

APPROXIMATE SCALE (feet)

0 10 20

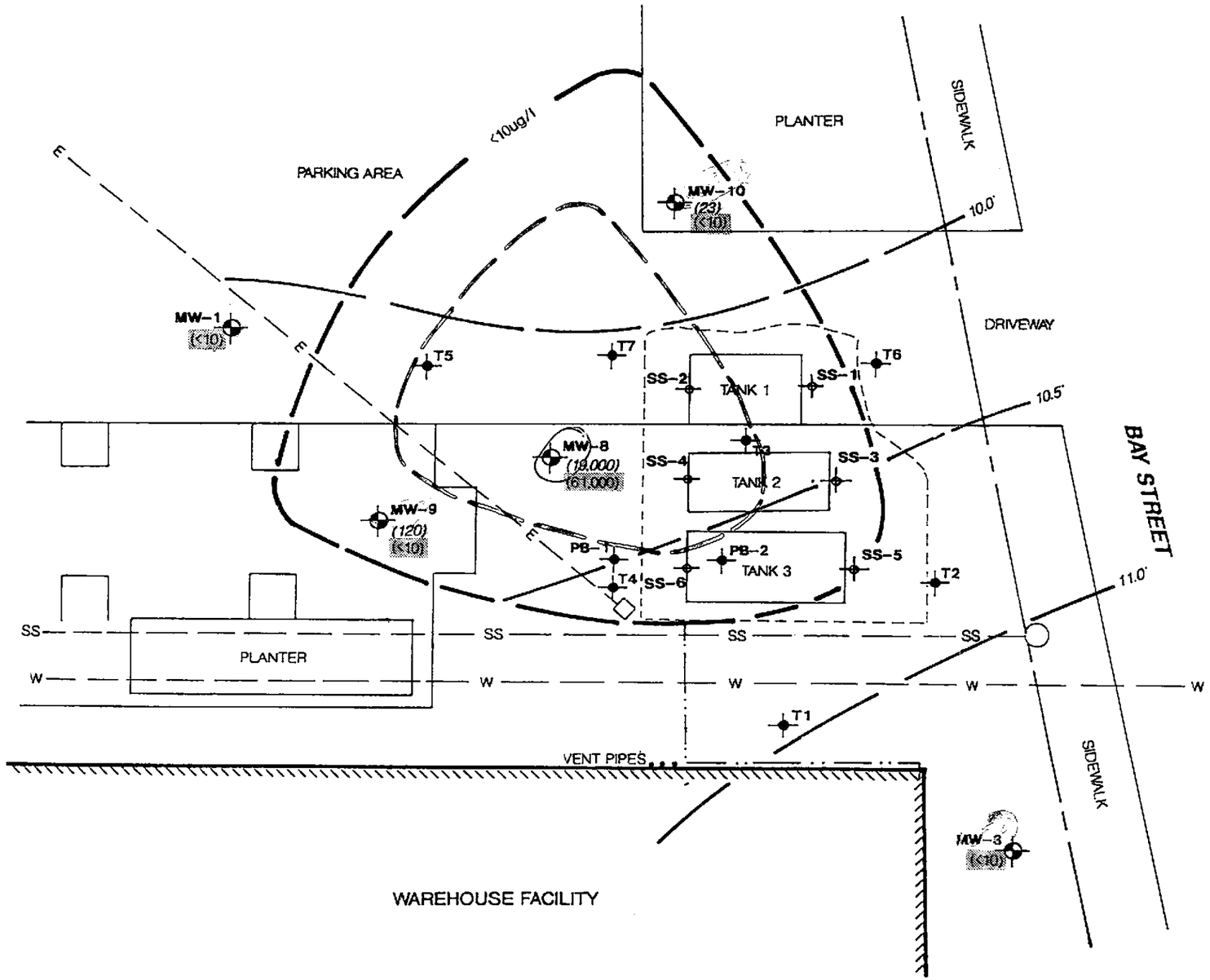
MIBK CONCENTRATIONS IN SOIL

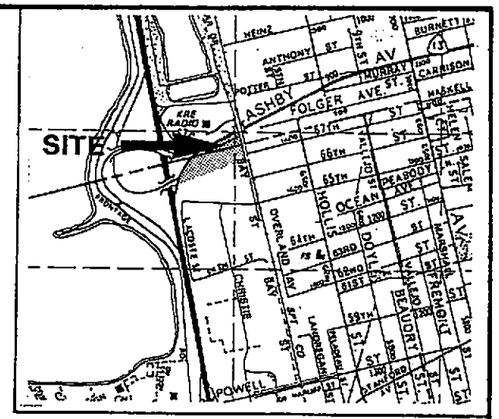
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JOB NUMBER	DATE	APPROVED
820.001	4/27/94	

PLATE 17





VICINITY MAP

- MONITORING WELL
- TEST BORING
- PREVIOUS TANK EXCAVATION
- — SS — SANITARY SEWER PIPELINE
- — W — WATER LINE
- — E — ELECTRICAL CONDUIT
- PREVIOUS TANK PIPES (3)
- CONFIRMATION SAMPLE FROM TANK EXCAVATION
- GROUNDWATER ELEVATION CONTOURS (FEET) 4/22/94
- ESTIMATED <10µg/l ISOCONCENTRATION CONTOUR FOR MIBK (4/21/94)
- ESTIMATED <10µg/l ISOCONCENTRATION CONTOUR FOR MIBK (8/8/94)
- *(100)* MIBK CONCENTRATION (µg/l) IN GROUNDWATER 4/21/94)
- (<10) MIBK CONCENTRATION (µg/l) IN GROUNDWATER 8/8/94)

N

APPROXIMATE SCALE (feet)

0 10 20

MIBK CONCENTRATIONS IN GROUNDWATER

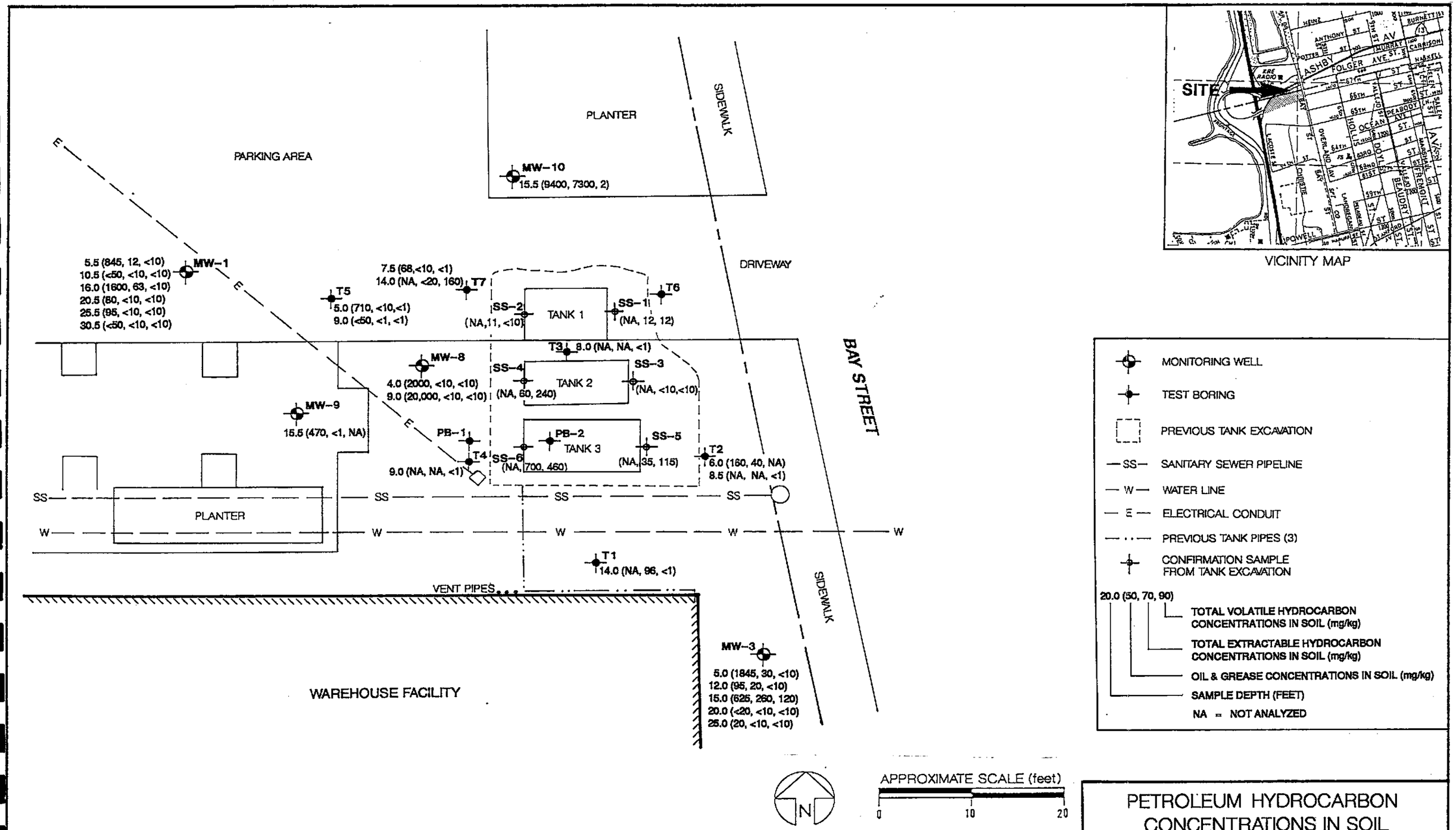
Subsurface Consultants

6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	4/27/94	

PLATE 18

VICINITY MAP



- MONITORING WELL
- TEST BORING
- PREVIOUS TANK EXCAVATION
- —SS— SANITARY SEWER PIPELINE
- — W — WATER LINE
- — E — ELECTRICAL CONDUIT
- — · · — PREVIOUS TANK PIPES (3)
- CONFIRMATION SAMPLE FROM TANK EXCAVATION

20.0 (50, 70, 90)

- TOTAL VOLATILE HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- TOTAL EXTRACTABLE HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- OIL & GREASE CONCENTRATIONS IN SOIL (mg/kg)
- SAMPLE DEPTH (FEET)

NA = NOT ANALYZED

N

APPROXIMATE SCALE (feet)

0 10 20

PETROLEUM HYDROCARBON CONCENTRATIONS IN SOIL

Subsurface Consultants

6707 BAY STREET – EMERYVILLE, CA

JOB NUMBER	DATE	APPROVED
820.001	4/27/94	

PLATE 19

E T S
1343 Redwood Way
Petaluma, CA 94954
(707) 795-9605 & FAX 795-9384

Environmental Technical Services

Soil, Water & Air Testing & Monitoring
Analytical Labs
Technical Support

Serving people and the environment so that both benefit.

COMPANY: Subsurface Consultants, 171 12th Street, Suite 201, Oakland, CA 94607
ATTN: Mark Kawakami
SITE LOCATION: Bay Street JOB #: 820.001
PROJECT NAME: 6707 Bay Street

ANALYST(S)	SUPERVISOR
C. Bennett	S. Forbes
MICRO	LAB DIRECTOR
J. Causey	G.S. Conrad PhD

DATE COLLECTED	DATE RECEIVED	DATE of COMPLETION
4/14/94	4/14/94	4/29/94

LAB SAMPLE NUMBER	SAMPLE ID	SOURCE of SOIL/ SEDIMENT	AMMONIA NH3=N ppm	NITRATE NO3=N ppm	PHOSPHROUS PO4=P ppm	POTASSIUM K ppm	pH -log[H+]	REDOX (oxid-red) milli Volt
94-04-0133	T4	Subsoil @ 8.5'	41	10	160	269	6.9	+263.6 mV
94-04-0134	T5	Subsoil @ 8.5'	18	7	14	115	8.4	+286.1 mV

LAB SAMPLE NUMBER	SAMPLE ID	SOURCE of SOIL/ SEDIMENT	SPREAD PLATE COUNT cfu/gm	PSEUDOMONAD COUNT cfu/gm	MOISTURE CONTENT %
94-04-0133	T4	Subsoil @ 8.5'	6.88 x 10E3	3.51 x 10E3	18.70
94-04-0134	T5	Subsoil @ 8.5'	1.06 x 10E3	3.54 x 10E2	3.69

****

COMMENTS

Nutrient levels are actually somewhat elevated as compared to typical subsurface soils suggesting some sort of nutrient influx. Still, with the possible exception of P in T4 (which is already fairly high), more N & P would be advantageous. The equivalent of 50-100 ppm more (w/some N as NO3 & some as NH3) would suffice. Potassium levels are fine in both soils. Redox values for these soils indicate they are more or less in the middle of the "somewhat" or "moderately reduced" range (100 -400 mV). This is an acceptable range since there is some oxygen tension present, yet all of the facultative aerobes and tolerant anaerobes are able to function as well. In addition, right now these soils appear to meet a critical minimum in that they are safely above +225 mV which is necessary for effective denitrification (i.e., pseudomonad activity). And in T4 they comprise about 50% of the total while in T5 they are at 33%. However, also note that total microbial counts are not very high in these soils which may be fairly consistent with their sandy texture. In fact, while the T4 soil seems to be a silty sand with modest clay, T5 appears to be >90% sand. Thus, due to low total counts it would be prudent to stimulate increased microbial activity w/ nutrients, some O2, etc.

NOTES: Nutrient methods follow the NCR Manual (UC Davis/DANR), ç 1998, and/or Recommended Soil & Plant Tissue Ref. Meth., ç 1993 (UCDavis/DANR) as follows: NH3 & NO3 - aqueous or KCL extraction, spectrophotometric detection w/ Cd & salicylate; PO4 - HCO3 or acid-F extraction, spectrophotometric detection w/ ascorbate/molybdate; K - alkaline or acid extraction, turbidimteric detection w/ DPH; and pH on 2:1 mixture with probe & ISE meter. Methods of Soil Analysis, Part 2 - Chem. & Micro. Prop., 2nd ed., ç 1982, as follows: denitrifiers by 47-3.1, an MPN method.

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1343 Redwood Way
Petaluma, CA 94954
(707) 795-9605 & FAX 795-9384

Environmental Technical Services

Soil, Water & Air Testing & Monitoring Analytical Labs Technical Support

Serving people and the environment so that both benefit.

COMPANY: Subsurface Consultants, 171 12th Street, Suite 201, Oakland, CA 94607
ATTN: Mark Kawakami
SITE LOCATION: Bay Street JOB #: 820.001
PROJECT NAME: 6707 Bay Street

DATE COLLECTED	DATE RECEIVED	DATE of COMPLETION	ANALYST(S) MICRO	SUPERVISOR LAB DIRECTOR
5/3/94	5/3/94	5/13/94	J. Causey	G.S. Conrad PhD

LAB SAMPLE NUMBER	SAMPLE ID	SOURCE of SOIL/ SEDIMENT	AMMONIA NH3-N ppm	NITRATE NO3-N ppm	PHOSPHOROUS PO4-P ppm	POTASSIUM K ppm	pH -log[H+]	SOLUBLE SALTS mmhos/cm
4-05-0009	T7	Subsoil @ 13.5	33	6	19	46	8.6	0.99

LAB SAMPLE NUMBER	SAMPLE ID	SOURCE of SOIL/ SEDIMENT	SPREAD PLATE COUNT cfu/gm	PSEUDOMONAD COUNT MPN/gm	REDOX (oxid-red) millivolt	MOISTURE CONTENT %
4-05-0009	T7	Subsoil @ 13.5	5.13 x 10E4	1.60 x 10E4	+293.9 mV	22.08

COMMENTS

Nutrient levels are generally low and should be improved along the lines of what was suggested in the last soil report. Both nitrate and phosphorous are fairly critical in this case. Potassium is more or less boderline/marginal (i.e., in the 30-50 ppm range); thus it may be helpful to add some. While salinity is well within tolerable limits for microbes, pH is definitely more alkaline than is preferable. You will want to amend the soil with the appropriate conditioner to bring the pH down to at least below eight; and better yet closer to seven. This soil sample has a heavier texture (more silt and clay) than either of the previous two (T4 & T5), and this is reflected in the spread plate count which is substantially higher than in those previous samples. The relatively high pseudomonad precentages suggest that this is an "older" site, i.e., that contamination has existed for some time and selected for tolerant forms. Still, even for subsoil this count is not very high and suggests a relatively slow rate of bioremediation. Again, to get the rate up significantly considerable microbial stimulation would be necessary.

NOTES: Nutrient methods follow the NCR Manual (UC Davis/DANR), ç 1988, and/or Recommended Soil & Plant Tissue Ref. Meth., ç 1993 (UCDavis/DANR) as follows: NH3 & NO3 - aqueous or KCL extraction, photometric detection w/ Cd & salicylate; PO4 - HCO3 or acid-F extraction, photometric detection w/ ascorbate/molybdate; K - alkaline or acid extraction, turbidimteric detection w/ TPB; pH and salts on 2:1 mixture with probe/ISE & conductivity meters. Methods of Soil Analysis, Pt. 2, - Chem. & Micro. Prop., 2nd ed., ç 1982, as follows: denitrifiers by 47-3.1, an MPN method.

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Environmental Technical Services

Soil, Water & Air Testing & Monitoring Analytical Labs Technical Support

COMPANY: Subsurface Consultants, 171 12th Street, Suite 201, Oakland, CA 94607

ATTN: Mark Kawakami

SITE LOCATION: Bay Street Project, 6707 Bay Street

DATE COLLECTED: 4/21/94 | DATE RECEIVED: 4/21/94 | DATE of COMPLETION: 5/6/94 | ANALYST(S): C. Lawrence, C. Bennett | LAB SUPERVISOR: J. Causey | LAB DIRECTOR: Greg S. Conrad, Ph.D.

LAB SAMPLE NUMBER	SAMPLE ID	SOURCE of WATER	WATER pH - log [H+]	HARDNESS (Ca + Mg) ppm	AMMONIUM NH4 meq/l	POTASSIUM K meq/l	SODIUM Na meq/l	CALCIUM Ca meq/l	MAGNESIUM Mg meq/l	IRON Fe meq/l	MANGANESE Mg meq/l	TOTAL CATIONS meq/l
94-04-0281	MW3	Monitor Well	7.1	864	0.038	0.143	2.205	11.657	5.598	0.513	0.299	20.453
94-04-0282	MW8	Monitor Well	7.5	492	0.829	0.718	5.837	5.389	4.398	0.526	0.052	17.749
94-04-0283	MW10	Monitor Well	7.7	450	0.750	0.456	3.149	4.192	4.798	0.387	0.056	13.788

LAB SAMPLE NUMBER	SAMPLE ID	SOURCE of WATER	ECw (Elec Cond) mmhos/cm	TDS (Summation) ppm	AMMONIA NH3 ppm	POTASSIUM K ppm	SODIUM Na ppm	CALCIUM Ca ppm	MAGNESIUM Mg ppm	IRON Fe ppm	MANGANESE Mn ppm
94-04-0281	MW3	Monitor Well	3.02	1718.6	0.65	5.60	50.7	233.6	68.04	9.55	4.11
94-04-0282	MW8	Monitor Well	5.12	2624.7	14.15	28.07	134.2	108.0	53.46	9.80	0.71
94-04-0283	MW10	Monitor Well	3.76	2251.3	12.81	17.84	72.4	84.0	58.32	7.20	0.77

LAB SAMPLE NUMBER	SAMPLE ID	SOURCE of WATER	DO Diss Oxygen mg/l	REDOX oxid-red mV	BICARBONATE HCO3 meq/l	CARBONATE CO3 meq/l	CHLORIDE Cl meq/l	NITRATE NO3 meq/l	PHOSPHATE PO4 meq/l	SULFATE SO4 meq/l	BORATE B407 meq/l	TOTAL ANIONS meq/l
94-04-0281	MW3	Monitor Well	2.41	356.2	15.607	<.001	9.929	0.021	0.138	0.750	0.120	26.515
94-04-0282	MW8	Monitor Well	1.30	148.5	21.836	<.001	26.175	0.071	0.197	0.354	0.259	48.892
94-04-0283	MW10	Monitor Well	0.81	285.2	24.066	<.001	14.780	0.036	0.162	0.208	0.129	39.381

LAB SAMPLE NUMBER	SAMPLE ID	SOURCE of WATER	Heterotrophic Plate Count cfu/ml	Pseudomonad Count cfu/ml	BICARBONATE HCO3 ppm	CARBONATE CO3 ppm	CHLORIDE Cl ppm	NITRATE NO3 ppm	PHOSPHATE PO4 ppm	SULFATE SO4 ppm	BORON B ppm
94-04-0281	MW3	Monitor Well	8.50 x 10E2	9.2 x 10E1	952	<1	352	1.33	4.36	36	1.3
94-04-0282	MW8	Monitor Well	1.13 x 10E4	2.9 x 10E3	1332	<1	928	4.43	6.25	17	2.8
94-04-0283	MW10	Monitor Well	5.70 x 10E4	4.3 x 10E4	1468	<1	524	2.22	5.13	10	1.4

COMMENTS

Levels of constituents are relatively high in all samples for typical groundwater in the Bay area, except that which is close to the Bay itself, and/or groundwater w/ an industrial influence. All samples show a Bay and/or industrial influence, although this is somewhat stronger in MW8 & MW10; note the much greater discrepancy in cation-anion values in these two. More or less consistent with this influence are DO & Redox values, and especially ammonia levels. Microbial counts appear to be consistent with the degree of contamination, the lower DOs, and lower redox values. That is, they are drawing on ammonia and other nutrients, and drawing down oxygen levels as they consume the carbon source. Increase both nutrients & O2, but the latter may be more important.

NOTES: Extraction methodology according to Title 22 for the WET Test except that this is aqueous (nutrient determination), i.e., w/o extractant. Detection methodologies according Standard Methods for the Examination of Water and Wastewater, © 1986, 16th ed., except where noted: NO3 - 418 C; NH3 - Salicylate; K - TPB (turbdidimetric); Na - electrode/ISE meter; Ca - 311 C; Mg - 318; Hardness - 314 B; Fe - 315 B; Mn - PAN method; pH - electrode/ISE Meter; Alk - 403; ECw - 210 A; Cl - 407 B; PO4 - 424 F; SO4 - 426 C; B - 404 B; DO & Redox by probe and meter; and microbe counts by standard methods.

HAIN OF CUSTODY FORM

PAGE 1 OF 1

ROJECT NAME: 6707 BAY STREET
OB NUMBER: 820.001 LAB: ETS
ROJECT CONTACT: MARK KAWAKAMI TURNAROUND: NORMAL
AMPLED BY: JOHN WOLFE REQUESTED BY: MARK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX						CONTAINERS						METHOD PRESERVED					SAMPLING DATE				NOTES	ANALYSIS REQUESTED									
		WATER	SOIL	WASTE	AIR			VOA	LITER	PINT	TUBE			HCL	H_2SO_4	HNO_3	ICE	NONE	MONTH	DAY	YEAR	TIME		TOTAL PLATE COUNT	PSEUDONOMADS	REDOX POTENTIAL	PH	NITROGEN) - NITRATE/AMMONIA	PHOSPHORUS	POTASSIUM	MOISTURE CONTENT		
	T4 @ 8½		X								X						X		04	14	94			X	X	X	X	X	X	X	X		
	T5 @ 8½		X								X						X		04	14	94			X	X	X	X	X	X	X	X		

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
John Wolfe	4/14/94 1110	Dennis Alexander	4/14/94 11:10 a.m.
Dennis Alexander	4/14/94 11:55 a.m.	Jeff Cowsert	4/14/94 11:50

COMMENTS & NOTES:

Subsurface Consultants, Inc.
171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607
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CHAIN OF CUSTODY FORM

PROJECT NAME: 6707 BAY STREET

JOB NUMBER: 820.001 LAB: ETS

PROJECT CONTACT: MARK KAWAKAMI TURNAROUND: NORMAL

SAMPLED BY: CHRIS DEA REQUESTED BY: MARK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	MATRIX: SOIL	MATRIX: WASTE	MATRIX: AIR	CONTAINERS: VOA	CONTAINERS: LITER	CONTAINERS: PINT	CONTAINERS: TUBE	METHOD PRESERVED: HCL	METHOD PRESERVED: H_2SO_4	METHOD PRESERVED: HNO_3	METHOD PRESERVED: ICE	METHOD PRESERVED: NONE	SAMPLING DATE: MONTH	SAMPLING DATE: DAY	SAMPLING DATE: YEAR	SAMPLING DATE: TIME	NOTES	ANALYSIS REQUESTED: TRR SUIT +	ANALYSIS REQUESTED: REDOX	ANALYSIS REQUESTED: DISSOLVED OXYGEN	ANALYSIS REQUESTED: TOTAL HETEROTROPHIC PLATE COUNT	ANALYSIS REQUESTED: PSEUDOMONAD COUNT
	MW-3	X					X						X		04	21	01	4		X	X	X	X	X
	MW-6	X					X						X		04	21	01	4		X	X	X	X	
	[illegible]	X					X						X		04	21	01	4		X	X	X	X	

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/21/01 2:45	[signature]	4/21 3:35

COMMENTS & NOTES:

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CHAIN OF CUSTODY FORM

PAGE 1 OF 1

PROJECT NAME: 6707 BAY STREET

JOB NUMBER: 820.001 LAB: ETS

PROJECT CONTACT: MARK KAWAKAMI TURNAROUND: NORMAL

SAMPLED BY: JOHN WOLPE REQUESTED BY: MARK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	MATRIX: SOIL	MATRIX: WASTE	MATRIX: AIR	CONTAINERS: VOA	CONTAINERS: LITER	CONTAINERS: PINT	CONTAINERS: TUBE	METHOD PRESERVED: HCL	METHOD PRESERVED: H_2SO_4	METHOD PRESERVED: HNO_3	METHOD PRESERVED: ICE	METHOD PRESERVED: NONE	SAMPLING DATE: MONTH	SAMPLING DATE: DAY	SAMPLING DATE: YEAR	SAMPLING DATE: TIME	NOTES	ANALYSIS REQUESTED: TOTAL PLATE COUNT	ANALYSIS REQUESTED: PSEUDOMONADS	ANALYSIS REQUESTED: REDOX POTENTIAL	ANALYSIS REQUESTED: PH	ANALYSIS REQUESTED: NITRATE/AMMONIA	ANALYSIS REQUESTED: PHOSPHOROUS	ANALYSIS REQUESTED: POTASSIUM	ANALYSIS REQUESTED: MOISTURE CONTENT	ANALYSIS REQUESTED: TOTAL SALTS
	T7013.5		X						X				X		04	14	94			X	X	X	X	X	X	X	X	X

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
	5/2/94 11:15		5/3 11:15

COMMENTS & NOTES:

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A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 28-APR-94
Lab Job Number: 115201
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: Mary Plessas

Reviewed by: Kathleen O'Brien

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-001
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T1 @ 8

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	101 %
Toluene-d8	104 %
Bromofluorobenzene	85 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-002
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T2 @ 8.5

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/21/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	110*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	20	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	104 %
Toluene-d8	97 %
Bromofluorobenzene	94 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-003
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T3 @ 8

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	70*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	10	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	Detected(4)	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	104 %
Toluene-d8	116 %
Bromofluorobenzene	83 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-004
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T4 @ 9

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	50*	20
Carbon disulfide	Detected(4)	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	Detected(8)	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	10	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	96 %
Toluene-d8	107 %
Bromofluorobenzene	89 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-005
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T4 @ 14.5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/21/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	160*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	40	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	107 %
Bromofluorobenzene	93 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-006
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T6 @ 7.5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/21/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	100*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	10	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	Detected(6)	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	98 %
Toluene-d8	104 %
Bromofluorobenzene	79 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-007
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T7 @ 14

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/27/94
DATE REPORTED: 04/27/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl chloride	ND	500
Chloroethane	ND	500
Methylene chloride	ND	1,000
Acetone	ND	1,000
Carbon disulfide	ND	300
Trichlorofluoromethane	ND	300
1,1-Dichloroethene	ND	300
1,1-Dichloroethane	ND	300
trans-1,2-Dichloroethene	ND	300
cis-1,2-Dichloroethene	ND	300
Chloroform	ND	300
Freon 113	ND	300
1,2-Dichloroethane	ND	300
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	300
Carbon tetrachloride	ND	300
Vinyl acetate	ND	3,000
Bromodichloromethane	ND	300
1,2-Dichloropropane	ND	300
cis-1,3-Dichloropropene	ND	300
Trichloroethene	ND	300
Dibromochloromethane	ND	300
1,1,2-Trichloroethane	ND	300
Benzene	600	300
trans-1,3-Dichloropropene	ND	300
Bromoform	ND	300
2-Hexanone	ND	500
4-Methyl-2-pentanone	7,800	500
1,1,2,2-Tetrachloroethane	ND	300
Tetrachloroethene	ND	300
Toluene	ND	300
Chlorobenzene	ND	300
Ethyl benzene	ND	300
Styrene	ND	300
Total xylenes	500	300

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	95 %
Toluene-d8	101 %
Bromofluorobenzene	96 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-008
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW9 @ 8.5

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	70*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	10	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	Detected(6)	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	110 %
Bromofluorobenzene	90 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-009
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW10 @ 9.5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	30*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	104 %
Toluene-d8	102 %
Bromofluorobenzene	99 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-012
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T5 @ 9

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	20*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	100 %
Bromofluorobenzene	99 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-013
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T7 @ 7.5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/23/94
DATE REPORTED: 04/26/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	30*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	Detected(9)	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	110 %
Bromofluorobenzene	92 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/27/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	100 %
Bromofluorobenzene	97 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/27/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	102 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 04/22/94
DATE REPORTED: 04/27/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	101 %
Toluene-d8	102 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 04/27/94
DATE REPORTED: 04/27/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	300
Bromomethane	ND	300
Vinyl chloride	ND	300
Chloroethane	ND	300
Methylene chloride	ND	500
Acetone	ND	500
Carbon disulfide	ND	100
Trichlorofluoromethane	ND	100
1,1-Dichloroethene	ND	100
1,1-Dichloroethane	ND	100
trans-1,2-Dichloroethene	ND	100
cis-1,2-Dichloroethene	ND	100
Chloroform	ND	100
Freon 113	ND	100
1,2-Dichloroethane	ND	100
2-Butanone	ND	300
1,1,1-Trichloroethane	ND	100
Carbon tetrachloride	ND	100
Vinyl acetate	ND	1,000
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	100
Trichloroethene	ND	100
Dibromochloromethane	ND	100
1,1,2-Trichloroethane	ND	100
Benzene	ND	100
trans-1,3-Dichloropropene	ND	100
Bromoform	ND	100
2-Hexanone	ND	300
4-Methyl-2-pentanone	ND	300
1,1,2,2-Tetrachloroethane	ND	100
Tetrachloroethene	ND	100
Toluene	ND	100
Chlorobenzene	ND	100
Ethyl benzene	ND	100
Styrene	ND	100
Total xylenes	ND	100

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	96 %
Bromofluorobenzene	95 %

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

MS/MSD Report

Matrix Sample Number: 115201-005 Date Analyzed: 21-APR-94
Lab No: QC61520 QC61521 Spike File: >BDK22
Matrix: SOIL Spike Dup File: >BDK23
Batch No: 13793 9416291 9416292 9416286 Analyst: CW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	52.95	50	106 %	59-172%
Trichloroethene	41.19	50	82 %	62-137%
Benzene	48.04	50	92 %	66-142%
Toluene	48.73	50	98 %	59-139%
Chlorobenzene	42.57	50	85 %	60-133%
Surrogate Recoveries				
1,2-Dichloroethane-d4	50.24	50	100 %	70-121%
Toluene-d8	53.76	50	108 %	84-138%
Bromofluorobenzene	41.28	50	83 %	59-113%
MSD RESULTS				
1,1-Dichloroethene	59.08	50	118 %	59-172%
Trichloroethene	48.12	50	96 %	62-137%
Benzene	54.47	50	105 %	66-142%
Toluene	54.43	50	109 %	59-139%
Chlorobenzene	45.6	50	91 %	60-133%
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.69	50	97 %	70-121%
Toluene-d8	54.82	50	110 %	84-138%
Bromofluorobenzene	41.1	50	82 %	59-113%
MATRIX RESULTS				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	1.98			
Toluene	0			
Chlorobenzene	0			
RPD DATA				
1,1-Dichloroethene	11 %			< 22%
Trichloroethene	16 %			< 24%
Benzene	13 %			< 21%
Toluene	11 %			< 21%
Chlorobenzene	7 %			< 21%

Results within Specifications - PASS

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

8240 Laboratory Control Sample Report

Lab No: QC61459
Date Analyzed: 20-APR-94
Matrix: SOIL
Batch No: 13771 9416228

LCS Datafile: >ADK06
Operator: CW

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	63.56	50	127 %	59-172%
Trichloroethene	53.9	50	108 %	62-137%
Benzene	53.72	50	107 %	66-142%
Toluene	52.45	50	105 %	59-139%
Chlorobenzene	51.81	50	104 %	60-133%
Surrogate Recoveries				
1,2-Dichloroethane-d4	52.89	50	106 %	70-121%
Toluene-d8	51.05	50	102 %	84-138%
Bromofluorobenzene	50.78	50	102 %	59-113%

Results within Specifications - PASS CW 4/21/94

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

CLP VOCN Laboratory Control Sample Report

Lab No: QC61600
Date Analyzed: 22-APR-94
Matrix: SOIL
Batch No: 13817 9416384

LCS Datafile: >ADM04
Operator: CW

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	57.89	50	116 %	59-172%
Trichloroethene	49.33	50	99 %	62-137%
Benzene	51.49	50	103 %	66-142%
Toluene	51.42	50	103 %	59-139%
Chlorobenzene	51.14	50	102 %	60-133%
Surrogate Recoveries				
1,2-Dichloroethane-d4	49.57	50	99 %	70-121%
Toluene-d8	51.23	50	102 %	84-138%
Bromofluorobenzene	48.61	50	97 %	59-113%

Results within Specifications - PASS

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

MS/MSD Report

Matrix Sample Number: 115326-004
Lab No: QC61824 QC61825
Matrix: WATER
Batch No: 13873 9416603 9416605 9416596

Date Analyzed: 27-APR-94
Spike File: >BDQ18
Spike Dup File: >BDQ19
Analyst: CW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	61.24	50	123 %	61-145%
Trichloroethene	46.85	50	94 %	71-120%
Benzene	51	50	102 %	76-127%
Toluene	50.82	50	102 %	76-125%
Chlorobenzene	49.53	50	99 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	51.77	50	104 %	76-114%
Toluene-d8	48.78	50	98 %	88-110%
Bromofluorobenzene	49.13	50	98 %	86-115%
MSD RESULTS				
1,1-Dichloroethene	56.1	50	112 %	61-145%
Trichloroethene	44.63	50	89 %	71-120%
Benzene	47.26	50	95 %	76-127%
Toluene	50.86	50	102 %	76-125%
Chlorobenzene	47.61	50	95 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	51.66	50	103 %	76-114%
Toluene-d8	51.29	50	103 %	88-110%
Bromofluorobenzene	48.86	50	98 %	86-115%
MATRIX RESULTS				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	0			
Toluene	0			
Chlorobenzene	0			
RPD DATA				
1,1-Dichloroethene	9 %			< 14%
Trichloroethene	5 %			< 14%
Benzene	8 %			< 11%
Toluene	0 %			< 13%
Chlorobenzene	4 %			< 13%

Results within Specifications - PASS CW. 4/27/94

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-010
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T2 @ 6

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE EXTRACTED: 04/18/94
DATE ANALYZED: 04/22/94
DATE REPORTED: 04/26/94

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Phenol	ND	300
2-Chlorophenol	ND	300
Benzyl Alcohol	ND	300
2-Methylphenol	ND	300
4-Methylphenol	ND	300
2-Nitrophenol	ND	2,000
2,4-Dimethylphenol	ND	300
Benzoic Acid	ND	2,000
2,4-Dichlorophenol	ND	2,000
4-Chloro-3-methylphenol	ND	300
2,4,6-Trichlorophenol	ND	300
2,4,5-Trichlorophenol	ND	2,000
2,4-Dinitrophenol	ND	2,000
4-Nitrophenol	ND	2,000
4,6-Dinitro-2-methylphenol	ND	2,000
Pentachlorophenol	ND	2,000
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Bis(2-chloroethyl)ether	ND	300
1,3-Dichlorobenzene	ND	300
1,4-Dichlorobenzene	ND	300
1,2-Dichlorobenzene	ND	300
Bis(2-chloroisopropyl)ether	ND	300
N-Nitroso-di-n-propylamine	ND	300
Hexachloroethane	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
Bis(2-chloroethoxy)methane	ND	300
1,2,4-Trichlorobenzene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2-Chloronaphthalene	ND	300
2-Nitroaniline	ND	2,000

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-010
SAMPLE ID: T2 @ 6

EPA 827C

BASE/NEUTRAL COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Dimethylphthalate	ND	300
Acenaphthylene	ND	300
2,6-Dinitrotoluene	ND	300
3-Nitroaniline	ND	2,000
Acenaphthene	ND	300
Dibenzofuran	ND	300
2,4-Dinitrotoluene	ND	300
Diethylphthalate	ND	300
4-Chlorophenyl-phenylether	ND	300
Fluorene	ND	300
4-Nitroaniline	ND	2,000
N-Nitrosodiphenylamine	ND	300
Azobenzene	ND	300
4-Bromophenyl-phenylether	ND	300
Hexachlorobenzene	ND	300
Phenanthrene	ND	300
Anthracene	ND	300
Di-n-butylphthalate	ND	300
Fluoranthene	ND	300
Pyrene	ND	300
Butylbenzylphthalate	ND	300
3,3'-Dichlorobenzidine	ND	2,000
Benzo(a)anthracene	ND	300
Chrysene	ND	300
Bis(2-ethylhexyl)phthalate	ND	300
Di-n-octylphthalate	ND	300
Benzo(b)fluoranthene	Detected(230)	300
Benzo(k)fluoranthene	Detected(200)	300
Benzo(a)pyrene	ND	300
Indeno(1,2,3-cd)pyrene	ND	300
Dibenzo(a,h)anthracene	ND	300
Benzo(g,h,i)perylene	ND	300

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: % SURROGATE RECOVERIES

2-Fluorophenol	66	Nitrobenzene-d5	71
Phenol-d6	68	2-Fluorobiphenyl	98
2,4,6-Tribromophenol	39	Terphenyl-d14	108

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-011
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T5 @ 5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE EXTRACTED: 04/18/94
DATE ANALYZED: 04/22/94
DATE REPORTED: 04/26/94

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Phenol	ND	3,000
2-Chlorophenol	ND	3,000
Benzyl Alcohol	ND	3,000
2-Methylphenol	ND	3,000
4-Methylphenol	ND	3,000
2-Nitrophenol	ND	20,000
2,4-Dimethylphenol	ND	3,000
Benzoic Acid	ND	20,000
2,4-Dichlorophenol	ND	20,000
4-Chloro-3-methylphenol	ND	3,000
2,4,6-Trichlorophenol	ND	3,000
2,4,5-Trichlorophenol	ND	20,000
2,4-Dinitrophenol	ND	20,000
4-Nitrophenol	ND	20,000
4,6-Dinitro-2-methylphenol	ND	20,000
Pentachlorophenol	ND	20,000
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	3,000
Aniline	ND	3,000
Bis(2-chloroethyl)ether	ND	3,000
1,3-Dichlorobenzene	ND	3,000
1,4-Dichlorobenzene	ND	3,000
1,2-Dichlorobenzene	ND	3,000
Bis(2-chloroisopropyl)ether	ND	3,000
N-Nitroso-di-n-propylamine	ND	3,000
Hexachloroethane	ND	3,000
Nitrobenzene	ND	3,000
Isophorone	ND	3,000
Bis(2-chloroethoxy)methane	ND	3,000
1,2,4-Trichlorobenzene	ND	3,000
Naphthalene	ND	3,000
4-Chloroaniline	ND	3,000
Hexachlorobutadiene	ND	3,000
2-Methylnaphthalene	ND	3,000
Hexachlorocyclopentadiene	ND	3,000
2-Chloronaphthalene	ND	3,000
2-Nitroaniline	ND	20,000

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-011 EPA 8270
SAMPLE ID: T5 @ 5

BASE/NEUTRAL COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Dimethylphthalate	ND	3,000
Acenaphthylene	ND	3,000
2,6-Dinitrotoluene	ND	3,000
3-Nitroaniline	ND	20,000
Acenaphthene	ND	3,000
Dibenzofuran	ND	3,000
2,4-Dinitrotoluene	ND	3,000
Diethylphthalate	ND	3,000
4-Chlorophenyl-phenylether	ND	3,000
Fluorene	ND	3,000
4-Nitroaniline	ND	20,000
N-Nitrosodiphenylamine	ND	3,000
Azobenzene	ND	3,000
4-Bromophenyl-phenylether	ND	3,000
Hexachlorobenzene	ND	3,000
Phenanthrene	ND	3,000
Anthracene	ND	3,000
Di-n-butylphthalate	ND	3,000
Fluoranthene	ND	3,000
Pyrene	ND	3,000
Butylbenzylphthalate	ND	3,000
3,3'-Dichlorobenzidine	ND	20,000
Benzo(a)anthracene	ND	3,000
Chrysene	ND	3,000
Bis(2-ethylhexyl)phthalate	ND	3,000
Di-n-octylphthalate	ND	3,000
Benzo(b)fluoranthene	ND	3,000
Benzo(k)fluoranthene	ND	3,000
Benzo(a)pyrene	ND	3,000
Indeno(1,2,3-cd)pyrene	ND	3,000
Dibenzo(a,h)anthracene	ND	3,000
Benzo(g,h,i)perylene	ND	3,000

ND = Not detected at or above reporting limit.
*NOTE: All surrogates diluted out.

QA/QC SUMMARY: % SURROGATE RECOVERIES

2-Fluorophenol	*	Nitrobenzene-d5	*
Phenol-d6	*	2-Fluorobiphenyl	*
2,4,6-Tribromophenol	*	Terphenyl-d14	*

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-012
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T5 @ 9

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE EXTRACTED: 04/18/94
DATE ANALYZED: 04/22/94
DATE REPORTED: 04/26/94

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Phenol	ND	300
2-Chlorophenol	ND	300
Benzyl Alcohol	ND	300
2-Methylphenol	ND	300
4-Methylphenol	ND	300
2-Nitrophenol	ND	2,000
2,4-Dimethylphenol	ND	300
Benzoic Acid	ND	2,000
2,4-Dichlorophenol	ND	2,000
4-Chloro-3-methylphenol	ND	300
2,4,6-Trichlorophenol	ND	300
2,4,5-Trichlorophenol	ND	2,000
2,4-Dinitrophenol	ND	2,000
4-Nitrophenol	ND	2,000
4,6-Dinitro-2-methylphenol	ND	2,000
Pentachlorophenol	ND	2,000
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Bis(2-chloroethyl)ether	ND	300
1,3-Dichlorobenzene	ND	300
1,4-Dichlorobenzene	ND	300
1,2-Dichlorobenzene	ND	300
Bis(2-chloroisopropyl)ether	ND	300
N-Nitroso-di-n-propylamine	ND	300
Hexachloroethane	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
Bis(2-chloroethoxy)methane	ND	300
1,2,4-Trichlorobenzene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2-Chloronaphthalene	ND	300
2-Nitroaniline	ND	2,000

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-012
SAMPLE ID: T5 @ 9

EPA 827C

BASE/NEUTRAL COMPOUNDS	RESULT ug/Kg		REPORTING LIMIT ug/Kg
Dimethylphthalate	ND		300
Acenaphthylene	ND		300
2,6-Dinitrotoluene	ND		300
3-Nitroaniline	ND		2,000
Acenaphthene	ND		300
Dibenzofuran	ND		300
2,4-Dinitrotoluene	ND		300
Diethylphthalate	ND		300
4-Chlorophenyl-phenylether	ND		300
Fluorene	ND		300
4-Nitroaniline	ND		2,000
N-Nitrosodiphenylamine	ND		300
Azobenzene	ND		300
4-Bromophenyl-phenylether	ND		300
Hexachlorobenzene	ND		300
Phenanthrene	ND		300
Anthracene	ND		300
Di-n-butylphthalate	ND		300
Fluoranthene	ND		300
Pyrene	ND		300
Butylbenzylphthalate	ND		300
3,3'-Dichlorobenzidine	ND		2,000
Benzo(a)anthracene	ND		300
Chrysene	ND		300
Bis(2-ethylhexyl)phthalate		400	300
Di-n-octylphthalate	ND		300
Benzo(b)fluoranthene	ND		300
Benzo(k)fluoranthene	ND		300
Benzo(a)pyrene	ND		300
Indeno(1,2,3-cd)pyrene	ND		300
Dibenzo(a,h)anthracene	ND		300
Benzo(g,h,i)perylene	ND		300

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: % SURROGATE RECOVERIES

2-Fluorophenol	58	Nitrobenzene-d5	72
Phenol-d6	61	2-Fluorobiphenyl	70
2,4,6-Tribromophenol	51	Terphenyl-d14	82

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-013
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T7 @ 7.5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE EXTRACTED: 04/18/94
DATE ANALYZED: 04/23/94
DATE REPORTED: 04/26/94

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

	RESULT ug/Kg	REPORTING LIMIT ug/Kg
ACID COMPOUNDS		
Phenol	ND	300
2-Chlorophenol	ND	300
Benzyl Alcohol	ND	300
2-Methylphenol	ND	300
4-Methylphenol	ND	300
2-Nitrophenol	ND	2,000
2,4-Dimethylphenol	ND	300
Benzoic Acid	ND	2,000
2,4-Dichlorophenol	ND	2,000
4-Chloro-3-methylphenol	ND	300
2,4,6-Trichlorophenol	ND	300
2,4,5-Trichlorophenol	ND	2,000
2,4-Dinitrophenol	ND	2,000
4-Nitrophenol	ND	2,000
4,6-Dinitro-2-methylphenol	ND	2,000
Pentachlorophenol	ND	2,000
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Bis(2-chloroethyl)ether	ND	300
1,3-Dichlorobenzene	ND	300
1,4-Dichlorobenzene	ND	300
1,2-Dichlorobenzene	ND	300
Bis(2-chloroisopropyl)ether	ND	300
N-Nitroso-di-n-propylamine	ND	300
Hexachloroethane	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
Bis(2-chloroethoxy)methane	ND	300
1,2,4-Trichlorobenzene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2-Chloronaphthalene	ND	300
2-Nitroaniline	ND	2,000

LABORATORY NUMBER: 115201-013
SAMPLE ID: T7 @ 7.5

EPA 827C

BASE/NEUTRAL COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Dimethylphthalate	ND	300
Acenaphthylene	ND	300
2,6-Dinitrotoluene	ND	300
3-Nitroaniline	ND	2,000
Acenaphthene	ND	300
Dibenzofuran	ND	300
2,4-Dinitrotoluene	ND	300
Diethylphthalate	ND	300
4-Chlorophenyl-phenylether	ND	300
Fluorene	ND	300
4-Nitroaniline	ND	2,000
N-Nitrosodiphenylamine	ND	300
Azobenzene	ND	300
4-Bromophenyl-phenylether	ND	300
Hexachlorobenzene	ND	300
Phenanthrene	ND	300
Anthracene	ND	300
Di-n-butylphthalate	ND	300
Fluoranthene	ND	300
Pyrene	ND	300
Butylbenzylphthalate	ND	300
3,3'-Dichlorobenzidine	ND	2,000
Benzo(a)anthracene	ND	300
Chrysene	ND	300
Bis(2-ethylhexyl)phthalate	ND	300
Di-n-octylphthalate	ND	300
Benzo(b)fluoranthene	ND	300
Benzo(k)fluoranthene	ND	300
Benzo(a)pyrene	ND	300
Indeno(1,2,3-cd)pyrene	ND	300
Dibenzo(a,h)anthracene	ND	300
Benzo(g,h,i)perylene	ND	300

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: % SURROGATE RECOVERIES

2-Fluorophenol	61	Nitrobenzene-d5	68
Phenol-d6	64	2-Fluorobiphenyl	71
2,4,6-Tribromophenol	61	Terphenyl-d14	89

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-014
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW9 @ 15.5

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE EXTRACTED: 04/18/94
DATE ANALYZED: 04/23/94
DATE REPORTED: 04/26/94

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Phenol	ND	300
2-Chlorophenol	ND	300
Benzyl Alcohol	ND	300
2-Methylphenol	ND	300
4-Methylphenol	ND	300
2-Nitrophenol	ND	2,000
2,4-Dimethylphenol	ND	300
Benzoic Acid	ND	2,000
2,4-Dichlorophenol	ND	2,000
4-Chloro-3-methylphenol	ND	300
2,4,6-Trichlorophenol	ND	300
2,4,5-Trichlorophenol	ND	2,000
2,4-Dinitrophenol	ND	2,000
4-Nitrophenol	ND	2,000
4,6-Dinitro-2-methylphenol	ND	2,000
Pentachlorophenol	ND	2,000
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Bis(2-chloroethyl)ether	ND	300
1,3-Dichlorobenzene	ND	300
1,4-Dichlorobenzene	ND	300
1,2-Dichlorobenzene	ND	300
Bis(2-chloroisopropyl)ether	ND	300
N-Nitroso-di-n-propylamine	ND	300
Hexachloroethane	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
Bis(2-chloroethoxy)methane	ND	300
1,2,4-Trichlorobenzene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2-Chloronaphthalene	ND	300
2-Nitroaniline	ND	2,000

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-014
SAMPLE ID: MW9 @ 15.5

EPA 8270

BASE/NEUTRAL COMPOUNDS	RESULT ug/Kg		REPORTING LIMIT ug/Kg
Dimethylphthalate	ND		300
Acenaphthylene	ND		300
2,6-Dinitrotoluene	ND		300
3-Nitroaniline	ND		2,000
Acenaphthene	ND		300
Dibenzofuran	ND		300
2,4-Dinitrotoluene	ND		300
Diethylphthalate	ND		300
4-Chlorophenyl-phenylether	ND		300
Fluorene	ND		300
4-Nitroaniline	ND		2,000
N-Nitrosodiphenylamine	ND		300
Azobenzene	ND		300
4-Bromophenyl-phenylether	ND		300
Hexachlorobenzene	ND		300
Phenanthrene	ND		300
Anthracene	ND		300
Di-n-butylphthalate	ND		300
Fluoranthene	ND		300
Pyrene	ND		300
Butylbenzylphthalate	ND		300
3,3'-Dichlorobenzidine	ND		2,000
Benzo(a)anthracene	ND		300
Chrysene	ND		300
Bis(2-ethylhexyl)phthalate		400	300
Di-n-octylphthalate	ND		300
Benzo(b)fluoranthene	ND		300
Benzo(k)fluoranthene	ND		300
Benzo(a)pyrene	ND		300
Indeno(1,2,3-cd)pyrene	ND		300
Dibenzo(a,h)anthracene	ND		300
Benzo(g,h,i)perylene	ND		300

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: % SURROGATE RECOVERIES

2-Fluorophenol	143	Nitrobenzene-d5	147
Phenol-d6	146	2-Fluorobiphenyl	153
2,4,6-Tribromophenol	126	Terphenyl-d14	176

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-015
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW10 @ 15.5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE EXTRACTED: 04/18/94
DATE ANALYZED: 04/25/94
DATE REPORTED: 04/26/94

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

ACID COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Phenol	ND	2,000
2-Chlorophenol	ND	2,000
Benzyl Alcohol	ND	2,000
2-Methylphenol	ND	2,000
4-Methylphenol	ND	2,000
2-Nitrophenol	ND	10,000
2,4-Dimethylphenol	ND	2,000
Benzoic Acid	ND	10,000
2,4-Dichlorophenol	ND	10,000
4-Chloro-3-methylphenol	ND	2,000
2,4,6-Trichlorophenol	ND	2,000
2,4,5-Trichlorophenol	ND	10,000
2,4-Dinitrophenol	ND	10,000
4-Nitrophenol	ND	10,000
4,6-Dinitro-2-methylphenol	ND	10,000
Pentachlorophenol	ND	10,000
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	2,000
Aniline	ND	2,000
Bis(2-chloroethyl)ether	ND	2,000
1,3-Dichlorobenzene	ND	2,000
1,4-Dichlorobenzene	ND	2,000
1,2-Dichlorobenzene	ND	2,000
Bis(2-chloroisopropyl)ether	ND	2,000
N-Nitroso-di-n-propylamine	ND	2,000
Hexachloroethane	ND	2,000
Nitrobenzene	ND	2,000
Isophorone	ND	2,000
Bis(2-chloroethoxy)methane	ND	2,000
1,2,4-Trichlorobenzene	ND	2,000
Naphthalene	ND	2,000
4-Chloroaniline	ND	2,000
Hexachlorobutadiene	ND	2,000
2-Methylnaphthalene	ND	2,000
Hexachlorocyclopentadiene	ND	2,000
2-Chloronaphthalene	ND	2,000
2-Nitroaniline	ND	10,000

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-015
SAMPLE ID: MW10 @ 15.5

EPA 8270

BASE/NEUTRAL COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Dimethylphthalate	ND	2,000
Acenaphthylene	ND	2,000
2,6-Dinitrotoluene	ND	2,000
3-Nitroaniline	ND	10,000
Acenaphthene	ND	2,000
Dibenzofuran	ND	2,000
2,4-Dinitrotoluene	ND	2,000
Diethylphthalate	ND	2,000
4-Chlorophenyl-phenylether	ND	2,000
Fluorene	ND	2,000
4-Nitroaniline	ND	10,000
N-Nitrosodiphenylamine	ND	2,000
Azobenzene	ND	2,000
4-Bromophenyl-phenylether	ND	2,000
Hexachlorobenzene	ND	2,000
Phenanthrene	Detected(1600)	2,000
Anthracene	ND	2,000
Di-n-butylphthalate	ND	2,000
Fluoranthene	ND	2,000
Pyrene	ND	2,000
Butylbenzylphthalate	ND	2,000
3,3'-Dichlorobenzidine	ND	10,000
Benzo(a)anthracene	ND	2,000
Chrysene	ND	2,000
Bis(2-ethylhexyl)phthalate	ND	2,000
Di-n-octylphthalate	ND	2,000
Benzo(b)fluoranthene	ND	2,000
Benzo(k)fluoranthene	ND	2,000
Benzo(a)pyrene	ND	2,000
Indeno(1,2,3-cd)pyrene	ND	2,000
Dibenzo(a,h)anthracene	ND	2,000
Benzo(g,h,i)perylene	ND	2,000

ND = Not detected at or above reporting limit.
*NOTE: All surrogates diluted out.

QA/QC SUMMARY: % SURROGATE RECOVERIES

2-Fluorophenol	*	Nitrobenzene-d5	*
Phenol-d6	*	2-Fluorobiphenyl	*
2,4,6-Tribromophenol	*	Terphenyl-d14	*

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 04/13,14/94
DATE RECEIVED: 04/15/94
DATE EXTRACTED: 04/20/94
DATE ANALYZED: 04/22/94
DATE REPORTED: 04/26/94

Extractable Petroleum Hydrocarbons in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
115201-010	T2 @ 6	ND	40	10
115201-011	T5 @ 5	ND	ND	10
115201-012	T5 @ 9	ND	ND	1
115201-013	T7 @ 7.5	ND	ND	10
115201-014	MW9 @ 15.5	ND	ND	1
115201-015	MW10 @ 15.5	**	7,300	200

ND = Not detected at or above reporting limit.

* Reporting limit applies to all analytes.

QA/QC SUMMARY

LCS RECOVERY, %	79

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 115201

Project Name: 6707 Bay St.
Project Number: 820.001

Report Date: 28 April 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520EF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
115201-010	T2 @ 6	Soil	13-APR-94	15-APR-94	21-APR-94	160	mg/Kg	50	TR	13728
115201-011	T5 @ 5	Soil	14-APR-94	15-APR-94	21-APR-94	710	mg/Kg	50	TR	13728
115201-012	T5 @ 9	Soil	14-APR-94	15-APR-94	21-APR-94	ND	mg/Kg	50	TR	13728
115201-013	T7 @ 7.5	Soil	14-APR-94	15-APR-94	21-APR-94	68.	mg/Kg	50	TR	13728
115201-014	MW9 @ 15.5	Soil	13-APR-94	15-APR-94	21-APR-94	470	mg/Kg	50	TR	13728
115201-015	MW10 @ 15.5	Soil	14-APR-94	15-APR-94	21-APR-94	9400	mg/Kg	50	TR	13728

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

Q C B a t c h R e p o r t

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 115201
Report Date: 26 April 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 13728**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	50	mg/Kg	SMWW 17:5520EF	21-APR-94

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	86%	SMWW 17:5520EF	21-APR-94
BSD	84%	SMWW 17:5520EF	21-APR-94

		Control Limits
Average Spike Recovery	85%	80% - 120%
Relative Percent Difference	3.1%	< 20%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115201-003
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
SAMPLE ID: T3 @ 8

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE REPORTED: 04/26/94

PARAMETER	RESULT	UNITS	REPORTING LIMIT	METHOD
Releasable Cyanide	ND	mg/Kg	10	SW-846 Section 7.3.3.2
Releasable Sulfide	ND	mg/Kg	10	SW-846 Section 7.3.4.1
Ignitability	Does Not Ignite			SW-846 Section 7.1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY	Analysis Date	RPD, %	RECOVERY, %
Cyanide	04/20/94	<1	96
Sulfide	04/19/94	4	73
Ignitability	04/19/94	--	--

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 115201

Project Name: 6707 Bay St.

Project Number: 820.001

Report Date: 28 April 94

ANALYSIS: pH

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	Method	Analyst	QC Batch
115201-003	T3 @ 8	Soil	13-APR-94	15-APR-94	22-APR-94	7.7	SU *	EPA 9045	TR	13841

* Soil pH measured as water

Curtis & Tompkins, Ltd.

Q C B a t c h R e p o r t

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 115201
Report Date: 26 April 94

ANALYSIS: pH

QC Batch Number: 13841

Calibration Verification Results

Sample	Result	TV	Difference	Limit	Analyzed
ICV	7.01	7.00	.01	< 0.10	22-APR-94
CCV	7.01	7.00	.01	< 0.10	22-APR-94

Sample Duplicate Results

Sample	Duplicate	RPD	Analyzed
7.73	7.69	.5%	22-APR-94

Curtis & Tompkins, Ltd.

SAMPLE ID: T2 @ 6
LAB ID: 115201-010
CLIENT: Subsurface Consultants
PROJECT ID: 820.001
LOCATION: 6707 Bay St.
MATRIX: Soil

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE REPORTED: 04/26/94

CALIFORNIA TITLE 26 METALS

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	Batch Number	Method	Analysis Date
Antimony	5.1	3.0	13807	EPA 6010	04/22/94
Arsenic	9.3	2.5	13791	EPA 7060	04/22/94
Barium	170	0.50	13807	EPA 6010	04/22/94
Beryllium	0.23	0.10	13807	EPA 6010	04/22/94
Cadmium	1.0	0.25	13807	EPA 6010	04/22/94
Chromium (total)	25	0.50	13807	EPA 6010	04/22/94
Cobalt	8.7	1.0	13807	EPA 6010	04/22/94
Copper	2100	0.50	13807	EPA 6010	04/22/94
Lead	330	15	13807	EPA 6010	04/22/94
Mercury	ND	0.087	13774	EPA 7471	04/20/94
Molybdenum	1.5	1.0	13807	EPA 6010	04/22/94
Nickel	55	1.0	13807	EPA 6010	04/22/94
Selenium	ND	2.5	13791	EPA 7740	04/22/94
Silver	0.50	0.50	13807	EPA 6010	04/22/94
Thallium	ND	2.5	13791	EPA 7841	04/22/94
Vanadium	26	0.50	13807	EPA 6010	04/22/94
Zinc	580	1.0	13807	EPA 6010	04/22/94

ND = Not detected at or above reporting limit

Curtis & Tompkins, Ltd.

SAMPLE ID: T5 @ 5
LAB ID: 115201-011
CLIENT: Subsurface Consultants
PROJECT ID: 820.001
LOCATION: 6707 Bay St.
MATRIX: Soil

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE REPORTED: 04/26/94

CALIFORNIA TITLE 26 METALS

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	Batch Number	Method	Analysis Date
Antimony	ND	2.9	13807	EPA 6010	04/22/94
Arsenic	6.0	2.5	13791	EPA 7060	04/22/94
Barium	130	0.49	13807	EPA 6010	04/22/94
Beryllium	0.31	0.098	13807	EPA 6010	04/22/94
Cadmium	0.27	0.25	13807	EPA 6010	04/22/94
Chromium (total)	25	0.49	13807	EPA 6010	04/22/94
Cobalt	9.2	0.98	13807	EPA 6010	04/22/94
Copper	60	0.49	13807	EPA 6010	04/22/94
Lead	61	15	13807	EPA 6010	04/22/94
Mercury	0.21	0.10	13774	EPA 7471	04/20/94
Molybdenum	ND	0.98	13807	EPA 6010	04/22/94
Nickel	28	0.98	13807	EPA 6010	04/22/94
Selenium	ND	2.5	13791	EPA 7740	04/22/94
Silver	ND	0.49	13807	EPA 6010	04/22/94
Thallium	ND	2.5	13791	EPA 7841	04/22/94
Vanadium	26	0.49	13807	EPA 6010	04/22/94
Zinc	88	0.98	13807	EPA 6010	04/22/94

ND = Not detected at or above reporting limit

Curtis & Tompkins, Ltd.

SAMPLE ID: T5 @ 9
LAB ID: 115201-012
CLIENT: Subsurface Consultants
PROJECT ID: 820.001
LOCATION: 6707 Bay St.
MATRIX: Soil

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE REPORTED: 04/26/94

CALIFORNIA TITLE 26 METALS

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	Batch Number	Method	Analysis Date
Antimony	ND	3.0	13807	EPA 6010	04/22/94
Arsenic	ND	2.5	13791	EPA 7060	04/22/94
Barium	41	0.50	13807	EPA 6010	04/22/94
Beryllium	ND	0.10	13807	EPA 6010	04/22/94
Cadmium	ND	0.25	13807	EPA 6010	04/22/94
Chromium (total)	23	0.50	13807	EPA 6010	04/22/94
Cobalt	4.2	1.0	13807	EPA 6010	04/22/94
Copper	14	0.50	13807	EPA 6010	04/22/94
Lead	1.5	1.5	13791	EPA 7421	04/22/94
Mercury	ND	0.087	13774	EPA 7471	04/20/94
Molybdenum	ND	1.0	13807	EPA 6010	04/22/94
Nickel	19	1.0	13807	EPA 6010	04/22/94
Selenium	ND	2.5	13791	EPA 7740	04/22/94
Silver	ND	0.50	13807	EPA 6010	04/22/94
Thallium	ND	2.5	13791	EPA 7841	04/22/94
Vanadium	15	0.50	13807	EPA 6010	04/22/94
Zinc	18	1.0	13807	EPA 6010	04/22/94

ND = Not detected at or above reporting limit

Curtis & Tompkins, Ltd.

SAMPLE ID: T7 @ 7.5
LAB ID: 115201-013
CLIENT: Subsurface Consultants
PROJECT ID: 820.001
LOCATION: 6707 Bay St.
MATRIX: Soil

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE REPORTED: 04/26/94

CALIFORNIA TITLE 26 METALS

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	Batch Number	Method	Analysis Date
Antimony	ND	3.0	13807	EPA 6010	04/22/94
Arsenic	4.2	2.5	13791	EPA 7060	04/22/94
Barium	150	0.50	13807	EPA 6010	04/22/94
Beryllium	0.45	0.099	13807	EPA 6010	04/22/94
Cadmium	0.28	0.25	13807	EPA 6010	04/22/94
Chromium (total)	27	0.50	13807	EPA 6010	04/22/94
Cobalt	10	0.99	13807	EPA 6010	04/22/94
Copper	40	0.50	13807	EPA 6010	04/22/94
Lead	6.1	1.5	13791	EPA 7421	04/22/94
Mercury	ND	0.087	13774	EPA 7471	04/20/94
Molybdenum	ND	0.99	13807	EPA 6010	04/22/94
Nickel	37	0.99	13807	EPA 6010	04/22/94
Selenium	ND	2.5	13791	EPA 7740	04/22/94
Silver	ND	0.50	13807	EPA 6010	04/22/94
Thallium	ND	2.5	13791	EPA 7841	04/22/94
Vanadium	27	0.50	13807	EPA 6010	04/22/94
Zinc	62	0.99	13807	EPA 6010	04/22/94

ND = Not detected at or above reporting limit

Curtis & Tompkins, Ltd.

SAMPLE ID: MW9 @ 15.5
LAB ID: 115201-014
CLIENT: Subsurface Consultants
PROJECT ID: 820.001
LOCATION: 6707 Bay St.
MATRIX: Soil

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE REPORTED: 04/26/94

CALIFORNIA TITLE 26 METALS

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	Batch Number	Method	Analysis Date
Antimony	ND	3.0	13807	EPA 6010	04/22/94
Arsenic	4.2	2.5	13791	EPA 7060	04/22/94
Barium	190	0.50	13807	EPA 6010	04/22/94
Beryllium	0.43	0.10	13807	EPA 6010	04/22/94
Cadmium	ND	0.25	13807	EPA 6010	04/22/94
Chromium (total)	26	0.50	13807	EPA 6010	04/22/94
Cobalt	12	1.0	13807	EPA 6010	04/22/94
Copper	30	0.50	13807	EPA 6010	04/22/94
Lead	19	1.5	13791	EPA 7421	04/22/94
Mercury	ND	0.083	13774	EPA 7471	04/20/94
Molybdenum	ND	1.0	13807	EPA 6010	04/22/94
Nickel	36	1.0	13807	EPA 6010	04/22/94
Selenium	ND	2.5	13791	EPA 7740	04/22/94
Silver	ND	0.50	13807	EPA 6010	04/22/94
Thallium	ND	2.5	13791	EPA 7841	04/22/94
Vanadium	27	0.50	13807	EPA 6010	04/22/94
Zinc	61	1.0	13807	EPA 6010	04/22/94

ND = Not detected at or above reporting limit

Curtis & Tompkins, Ltd.

SAMPLE ID: MW10 @ 15.5
LAB ID: 115201-015
CLIENT: Subsurface Consultants
PROJECT ID: 820.001
LOCATION: 6707 Bay St.
MATRIX: Soil

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE REPORTED: 04/26/94

CALIFORNIA TITLE 26 METALS

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	Batch Number	Method	Analysis Date
Antimony	4.4	3.0	13807	EPA 6010	04/22/94
Arsenic	19	2.5	13791	EPA 7060	04/22/94
Barium	140	0.50	13807	EPA 6010	04/22/94
Beryllium	0.21	0.10	13807	EPA 6010	04/22/94
Cadmium	3.3	0.25	13807	EPA 6010	04/22/94
Chromium (total)	59	0.50	13807	EPA 6010	04/22/94
Cobalt	10	1.0	13807	EPA 6010	04/22/94
Copper	330	0.50	13807	EPA 6010	04/22/94
Lead	250	15	13807	EPA 6010	04/22/94
Mercury	0.77	0.10	13774	EPA 7471	04/20/94
Molybdenum	3.1	1.0	13807	EPA 6010	04/22/94
Nickel	37	1.0	13807	EPA 6010	04/22/94
Selenium	ND	2.5	13791	EPA 7740	04/22/94
Silver	1.1	0.50	13807	EPA 6010	04/22/94
Thallium	ND	2.5	13791	EPA 7841	04/22/94
Vanadium	24	0.50	13807	EPA 6010	04/22/94
Zinc	530	1.0	13807	EPA 6010	04/22/94

ND = Not detected at or above reporting limit

Curtis & Tompkins, Ltd.

CLIENT: Subsurface Consultants
JOB NUMBER: 115201

DATE REPORTED: 04/26/94

BATCH QC REPORT
BLANK SPIKE / BLANK SPIKE DUPLICATE

Compound	Spike Amount	BS Result	BSD Result	Units	BS % Recovery	BSD % Recovery	Average Recovery	RPD	QC Batch	Method	Analysis Date
Antimony	500	430.6	466.7	ug/L	86	93	90	8	13807	EPA 6010	04/22/94
Arsenic	40	381.4	407.5	ug/L	95	102	99	7	13791	EPA 7060	04/22/94
Barium	2000	2023	2056	ug/L	101	103	102	2	13807	EPA 6010	04/22/94
Beryllium	50	49.7	50.5	ug/L	99	101	100	2	13807	EPA 6010	04/22/94
Cadmium	50	53.9	55	ug/L	108	110	109	2	13807	EPA 6010	04/22/94
Chromium (total)	200	189.7	192.3	ug/L	95	96	96	1	13807	EPA 6010	04/22/94
Cobalt	500	484.9	492.4	ug/L	97	99	98	2	13807	EPA 6010	04/22/94
Copper	250	255.6	257.8	ug/L	102	103	103	1	13807	EPA 6010	04/22/94
Lead	30	265.6	258	ug/L	89	86	88	3	13791	EPA 7421	04/22/94
Lead	500	451.8	433.5	ug/L	90	87	89	4	13807	EPA 6010	04/22/94
Mercury	4	4.407	4.202	ug/L	110	105	108	5	13774	EPA 7470	04/20/94
Molybdenum	400	376.9	380.4	ug/L	94	95	95	1	13807	EPA 6010	04/22/94
Nickel	500	496.7	510.9	ug/L	99	102	101	3	13807	EPA 6010	04/22/94
Selenium	30	274.4	278.2	ug/L	92	93	93	1	13791	EPA 7740	04/22/94
Silver	50	43.4	40.2	ug/L	87	80	84	8	13807	EPA 6010	04/22/94
Thallium	40	398	370.2	ug/L	100	93	97	7	13791	EPA 7841	04/22/94
Vanadium	500	480.6	486.9	ug/L	96	97	97	1	13807	EPA 6010	04/22/94
Zinc	500	468.6	478.2	ug/L	94	96	95	2	13807	EPA 6010	04/22/94

Curtis & Tompkins, Ltd.

CLIENT: Subsurface Consultants
JOB NUMBER: 115201

DATE REPORTED: 04/26/94

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	QC Batch	Method	Analysis Date
Antimony	ND	3	mg/Kg	13807	EPA 6010	04/22/94
Arsenic	ND	2.5	mg/Kg	13791	EPA 7060	04/22/94
Barium	ND	0.5	mg/Kg	13807	EPA 6010	04/22/94
Beryllium	ND	0.1	mg/Kg	13807	EPA 6010	04/22/94
Cadmium	ND	0.25	mg/Kg	13807	EPA 6010	04/22/94
Chromium (total)	ND	0.5	mg/Kg	13807	EPA 6010	04/22/94
Cobalt	ND	1	mg/Kg	13807	EPA 6010	04/22/94
Copper	ND	0.5	mg/Kg	13807	EPA 6010	04/22/94
Lead	ND	1.5	mg/Kg	13791	EPA 7421	04/22/94
Lead	ND	15	mg/Kg	13807	EPA 6010	04/22/94
Mercury	ND	0.1	mg/Kg	13774	EPA 7471	04/20/94
Molybdenum	ND	1	mg/Kg	13807	EPA 6010	04/22/94
Nickel	ND	1	mg/Kg	13807	EPA 6010	04/22/94
Selenium	ND	2.5	mg/Kg	13791	EPA 7740	04/22/94
Silver	ND	0.5	mg/Kg	13807	EPA 6010	04/22/94
Thallium	ND	2.5	mg/Kg	13791	EPA 7841	04/22/94
Vanadium	ND	0.5	mg/Kg	13807	EPA 6010	04/22/94
Zinc	ND	1	mg/Kg	13807	EPA 6010	04/22/94

ND = Not detected at or above reporting limit

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 28-APR-94
Lab Job Number: 115247
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: Mary Plussar

Reviewed by:

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115247
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET

DATE SAMPLED: 04/13,14/94
DATE RECEIVED: 04/15/94
DATE ANALYZED: 04/27/94
DATE REPORTED: 04/28/94

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
115247-003	T5 @ 9	ND	1
115247-004	T7 @ 7.5	ND	1
115247-006	MW10 @ 15.5	2	1
115247-007	T2 @ 8.5	ND	1
115247-008	T3 @ 8	ND	1
115247-009	T4 @ 9	ND	1

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	85

VERBAL ADDITIONS / CANCELLATIONS TO ANALYSIS REQUEST SHEET

CLIENT: Subsurface DATE: 4/20/94

REQUESTED BY: Martr Kawahara TIME: ____ am 1:05 (pm)

RECORDED BY: Kathy O'Brien

Current Lab ID (Previous Lab ID)	Client ID	Circle matrix	Specify add or cancel	Analysis	Due date
115247-007 (115201-002)	T2@8.5'	~~soil~~ water other	+	TVH-G	4/27
115247-008 (115201-003)	T3@8'	~~soil~~ water other	+	TVH-G	↓
115247-009 (115201-004)	T4@9'	soil water other	+	TVH-G	↓
(-)		soil water other			
115247-1 (115201-10)	T2@6	soil water other	—	Cancel Gas	
115247-2 (115201-11)	T5@5	soil water other	—	↓	
115247-5 (115201-14)	MW9@5.5	soil water other	—	↓	
(-)		soil water other			

VERBAL ADDITIONS / CANCELLATIONS TO ANALYSIS REQUEST SHEET

CLIENT: Subsurface Consultants DATE: 4/20

REQUESTED BY: Mark K. TIME: 10:00 am pm

RECORDED BY: TKM PROJ: 820.001

Location: 6707 Bay St.

Current Lab ID (Previous Lab ID)	Client ID	Circle matrix	Specify add or cancel	Analysis	Due date
115247-1 (115201-10)	T2@6	(soil) water other	ADD	TVH	4/27
115247-2 (115201-11)	T5@5	~~soil~~ water other			
115247-3 (115201-12)	T5@9	(soil) water other			
115247-~~3~~4 (115201-13)	T7@7.5	(soil) water other			
115247-5 (115201-14)	MW9@15.5	(soil) water other			
115247-6 (115201-15)	MW10@15.5	(soil) water other			
( )		soil water other			
( )		soil water other			

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 29-APR-94
Lab Job Number: 115355
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: Mary Pleasant

Reviewed by: Kathy O'Brien

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LABORATORY NUMBER: 115355-001
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW9 @ 15.5

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/15/94
DATE REQUESTED: 04/26/94
DATE ANALYZED: 04/27/94
DATE REPORTED: 04/29/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	140*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	20	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	Detected(4)	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Possible laboratory contamination.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	109 %
Bromofluorobenzene	90 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115355-002
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW10 @ 15.5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE REQUESTED: 04/26/94
DATE ANALYZED: 04/27/94
DATE REPORTED: 04/29/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	20
Bromomethane	ND	20
Vinyl chloride	ND	20
Chloroethane	ND	20
Methylene chloride	40	40
Acetone	320	40
Carbon disulfide	20	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
1,1-Dichloroethane	ND	10
trans-1,2-Dichloroethene	ND	10
cis-1,2-Dichloroethene	ND	10
Chloroform	ND	10
Freon 113	ND	10
1,2-Dichloroethane	ND	10
2-Butanone	120	20
1,1,1-Trichloroethane	ND	10
Carbon tetrachloride	ND	10
Vinyl acetate	ND	100
Bromodichloromethane	ND	10
1,2-Dichloropropane	ND	10
cis-1,3-Dichloropropene	ND	10
Trichloroethene	ND	10
Dibromochloromethane	ND	10
1,1,2-Trichloroethane	ND	10
Benzene	ND	10
trans-1,3-Dichloropropene	ND	10
Bromoform	ND	10
2-Hexanone	ND	20
4-Methyl-2-pentanone	Detected(11)	20
1,1,2,2-Tetrachloroethane	ND	10
Tetrachloroethene	ND	10
Toluene	ND	10
Chlorobenzene	ND	10
Ethyl benzene	ND	10
Styrene	ND	10
Total xylenes	ND	10

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	108 %
Toluene-d8	120 %
Bromofluorobenzene	128 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115355 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE REQUESTED: 04/26/94
DATE ANALYZED: 04/27/94
DATE REPORTED: 04/29/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	30	20
Acetone	20	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	99 %
Bromofluorobenzene	101 %

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MS/MSD Report

Matrix Sample Number: 208804-018
Lab No: QC61902 QC61903
Matrix: SOIL
Batch No: 13896 9416700 9416703 9416681

Date Analyzed: 28-APR-94
Spike File: >BDR17
Spike Dup File: >BDR18
Analyst: CW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	56.99	50	114 %	59-172%
Trichloroethene	40.47	50	81 %	62-137%
Benzene	46.02	50	92 %	66-142%
Toluene	46.56	50	93 %	59-139%
Chlorobenzene	44.17	50	88 %	60-133%
Surrogate Recoveries				
1,2-Dichloroethane-d4	47.24	50	94 %	70-121%
Toluene-d8	47.56	50	95 %	81-117%
Bromofluorobenzene	43.26	50	87 %	74-121%
MSD RESULTS				
1,1-Dichloroethene	60.05	50	120 %	59-172%
Trichloroethene	43.2	50	86 %	62-137%
Benzene	47.86	50	96 %	66-142%
Toluene	51.35	50	103 %	59-139%
Chlorobenzene	51.46	50	103 %	60-133%
Surrogate Recoveries				
1,2-Dichloroethane-d4	45.17	50	90 %	70-121%
Toluene-d8	49.68	50	99 %	81-117%
Bromofluorobenzene	46.15	50	92 %	74-121%

MATRIX RESULTS	
1,1-Dichloroethene	0
Trichloroethene	0
Benzene	0
Toluene	0
Chlorobenzene	0

RPD DATA		
1,1-Dichloroethene	5 %	< 22%
Trichloroethene	7 %	< 24%
Benzene	4 %	< 21%
Toluene	10 %	< 21%
Chlorobenzene	15 %	< 21%

Results within Specifications - PASS CW 4/28/94

VERBAL ADDITIONS / CANCELLATIONS TO ANALYSIS REQUEST SHEET

CLIENT: SCI DATE: 4/26/84

REQUESTED BY: M Kawakami TIME: ____ am 330 pm

RECORDED BY: [illegible]

Current Lab ID (Previous Lab ID)	Client ID	Circle matrix	Specify add or cancel	Analysis	Due date
115355-1 (115247-5)	MW9 @ 15.5	(soil) water other	+	8240	HOLD
-2 (115247-6)	MW10 @ 15.5	~~soil~~ water other	+	8240	
(-)		soil water other			
(-)		soil water other			
(-)		soil water other			
(-)		soil water other			
(-)		soil water other			
(-)		soil water other			

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A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 04-MAY-94
Lab Job Number: 115359
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: Mary Pleasant

Reviewed by: Barbara O'Brien

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115359-001
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T3 @ 14.5

DATE SAMPLED: 04/13/94
DATE RECEIVED: 04/26/94
DATE ANALYZED: 04/27/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	100*	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	20*	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Suspected laboratory contaminant
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	93 %
Toluene-d8	99 %
Bromofluorobenzene	96 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115359-002
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T5 @ 14.5

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/26/94
DATE ANALYZED: 04/28/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	10*	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	12	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

* Suspected laboratory contaminant
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	104 %
Toluene-d8	100 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115359-003
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: T6 @ 14.0

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/26/94
DATE ANALYZED: 04/27/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl chloride	ND	50
Chloroethane	ND	50
Methylene chloride	ND	100
Acetone	ND	100
Carbon disulfide	ND	30
Trichlorofluoromethane	ND	30
1,1-Dichloroethene	ND	30
1,1-Dichloroethane	ND	30
trans-1,2-Dichloroethene	ND	30
cis-1,2-Dichloroethene	ND	30
Chloroform	ND	30
Freon 113	ND	30
1,2-Dichloroethane	ND	30
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	30
Carbon tetrachloride	ND	30
Vinyl acetate	ND	300
Bromodichloromethane	ND	30
1,2-Dichloropropane	ND	30
cis-1,3-Dichloropropene	ND	30
Trichloroethene	ND	30
Dibromochloromethane	ND	30
1,1,2-Trichloroethane	ND	30
Benzene	ND	30
trans-1,3-Dichloropropene	ND	30
Bromoform	ND	30
2-Hexanone	ND	50
4-Methyl-2-pentanone	ND	50
1,1,2,2-Tetrachloroethane	ND	30
Tetrachloroethene	ND	30
Toluene	ND	30
Chlorobenzene	ND	30
Ethyl benzene	ND	30
Styrene	ND	30
Total xylenes	ND	30

NOTE: Raised detection limits due to a high concentration of non-target hydrocarbons.
ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	94 %
Toluene-d8	101 %
Bromofluorobenzene	99 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115359 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 04/27/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	89 %
Toluene-d8	100 %
Bromofluorobenzene	97 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115359 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 04/28/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN SOILS & WASTES

COMPOUND	Result (ug/Kg)	Reporting Limit (ug/Kg)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	101 %
Toluene-d8	100 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

QC SUMMARY SHEET FOR EPA 8240

Laboratory Number: 115359
Client: SUBSURFACE CONSULTANTS
Analysis date: 04/27/94
Sample type: Soil
Sample spiked: 208851-002

SPIKE DATA (spiked at 25 ppb)

SPIKE COMPOUNDS	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	116 %	OK	59 - 172
Trichloroethene	123 %	OK	66 - 142
Benzene	120 %	OK	62 - 137
Toluene	130 %	OK	59 - 139
Chlorobenzene	122 %	OK	60 - 133
SURROGATES			
1,2-Dichloroethane-d4	87 %	OK	70 - 121
Toluene-d8	106 %	OK	84 - 138
Bromofluorobenzene	87 %	OK	59 - 113

SPIKE DUP DATA (spiked at 25 ppb)

SPIKE COMPOUNDS	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	102 %	OK	59 - 172
Trichloroethene	116 %	OK	66 - 142
Benzene	110 %	OK	62 - 137
Toluene	122 %	OK	59 - 139
Chlorobenzene	117 %	OK	60 - 133
SURROGATES			
1,2-Dichloroethane-d4	88 %	OK	70 - 121
Toluene-d8	106 %	OK	84 - 138
Bromofluorobenzene	87 %	OK	59 - 113

RPD DATA

SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	116	102	13 %	OK	< 22
Trichloroethene	123	116	6 %	OK	< 21
Benzene	120	110	9 %	OK	< 24
Toluene	130	122	6 %	OK	< 21
Chlorobenzene	122	117	4 %	OK	< 21

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115526
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 04/13/94
DATE RECEIVED: 05/06/94
DATE REQUESTED: 05/06/94
DATE ANALYZED: 05/11/94
DATE REPORTED: 05/13/94

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
115526-001	T1 @ 14	ND	1

ND = Not detected at or above reporting limit.

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115526
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE REQUESTED: 05/06/94
DATE ANALYZED: 05/13/94
DATE REPORTED: 05/13/94

Total Volatile Hydrocarbons as Gasoline in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)
115526-002	T7 @ 14	160	1

ND = Not detected at or above reporting limit.

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115526
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 04/13/94
DATE RECEIVED: 05/05/94
DATE EXTRACTED: 05/11/94
DATE ANALYZED: 05/11/94
DATE REPORTED: 05/13/94

Extractable Petroleum Hydrocarbons in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
115526-001	T1 @ 14	**	96	1

ND = Not detected at or above reporting limit.

* Reporting limit applies to all analytes.

** Kerosene range not reported due to overlap of hydrocarbon ranges.

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	95

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115526
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/15/94
DATE EXTRACTED: 05/11/94
DATE ANALYZED: 05/11/94
DATE REPORTED: 05/13/94

Extractable Petroleum Hydrocarbons in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
115526-002	T7 @ 14	ND	ND	20

ND = Not detected at or above reporting limit.

* Reporting limit applies to all analytes.

NOTE: Sample was diluted due to high levels of hydrocarbons in oil range.

QA/QC SUMMARY

RPD, %	<1
RECOVERY, %	95

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

DATE RECEIVED: 05/20/93
DATE REPORTED: 05/26/93

LABORATORY NUMBER: 110974

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 820.001

LOCATION: 6707 BAY ST

RESULTS: SEE ATTACHED

Reviewed by

Reviewed by

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Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 110974

Project Name: 6707 Bay St.
Project Number: 820.001

Report Date: 26 May 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520BF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
110974-002	MW 3	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	9343
110974-003	MW 1	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	9343
110974-004	MW 8	Water	20-MAY-93	20-MAY-93	25-MAY-93	ND	mg/L	5	TR	9343

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

Q C B a t c h R e p o r t

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 110974
Report Date: 26 May 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 9343**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	25-MAY-93

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	88%	SMWW 17:5520BF	25-MAY-93
BSD	85%	SMWW 17:5520BF	25-MAY-93

		Control Limits
Average Spike Recovery	86%	80% - 120%
Relative Percent Difference	3.5%	< 20%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-2
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST
SAMPLE ID: MW 3

DATE SAMPLED: 05/20/93
DATE RECEIVED: 05/20/93
DATE ANALYZED: 05/25/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	111 %
Toluene-d8	98 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-3
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST
SAMPLE ID: MW 1

DATE SAMPLED: 05/20/93
DATE RECEIVED: 05/20/93
DATE ANALYZED: 05/25/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	110 %
Toluene-d8	99 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-4
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST
SAMPLE ID: MW 8

DATE SAMPLED: 05/20/93
DATE RECEIVED: 05/20/93
DATE ANALYZED: 05/24/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	5,000
Bromomethane	ND	5,000
Vinyl chloride	ND	5,000
Chloroethane	ND	5,000
Methylene chloride	ND	10,000
Acetone	ND	10,000
Carbon disulfide	ND	3,000
Trichlorofluoromethane	ND	3,000
1,1-Dichloroethene	ND	3,000
1,1-Dichloroethane	ND	3,000
cis-1,2-Dichloroethene	ND	3,000
trans-1,2-Dichloroethene	ND	3,000
Chloroform	ND	3,000
Freon 113	ND	3,000
1,2-Dichloroethane	ND	3,000
2-Butanone	ND	5,000
1,1,1-Trichloroethane	ND	3,000
Carbon tetrachloride	ND	3,000
Vinyl acetate	ND	5,000
Bromodichloromethane	ND	3,000
1,2-Dichloropropane	ND	3,000
cis-1,3-Dichloropropene	ND	3,000
Trichloroethene	ND	3,000
Dibromochloromethane	ND	3,000
1,1,2-Trichloroethane	ND	3,000
Benzene	ND	3,000
trans-1,3-Dichloropropene	ND	3,000
Bromoform	ND	3,000
2-Hexanone	ND	5,000
4-Methyl-2-pentanone	100,000	5,000
1,1,2,2-Tetrachloroethane	ND	3,000
Tetrachloroethene	ND	3,000
Toluene	ND	3,000
Chlorobenzene	ND	3,000
Ethyl benzene	ND	3,000
Styrene	ND	3,000
Total xylenes	ND	3,000

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	105 %
Toluene-d8	98 %
Bromofluorobenzene	95 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST

DATE ANALYZED: 05/24/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	105 %
Toluene-d8	97 %
Bromofluorobenzene	91 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 110974-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST

DATE ANALYZED: 05/25/93
DATE REPORTED: 05/26/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	113 %
Toluene-d8	99 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

QC SUMMARY SHEET FOR EPA 8240

Laboratory Number: 110974
Client: Subsurface Consultants
Analysis date: 05/25/93
Sample type: Water
Spike file: ceo21
Spike dup file: ceo22

SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	50.76	102 %	OK	61 - 145
Trichloroethene	49.41	99 %	OK	71 - 120
Benzene	52.37	105 %	OK	76 - 127
Toluene	50.47	101 %	OK	76 - 125
Chlorobenzene	51.20	102 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	53.28	107 %	OK	76 - 114
Toluene-d8	49.26	99 %	OK	88 - 110
Bromofluorobenzene	48.66	97 %	OK	86 - 115

SPIKE DUP DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	47.01	94 %	OK	61 - 145
Trichloroethene	47.96	96 %	OK	71 - 120
Benzene	50.19	100 %	OK	76 - 127
Toluene	50.02	100 %	OK	76 - 125
Chlorobenzene	50.90	102 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	53.20	106 %	OK	76 - 114
Toluene-d8	49.70	99 %	OK	88 - 110
Bromofluorobenzene	50.19	100 %	OK	86 - 115

MATRIX RESULTS	
1,1-Dichloroethene	0
Trichloroethene	0
Benzene	0
Toluene	0
Chlorobenzene	0

RPD DATA

SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	50.76	47.01	8 %	OK	< 14
Trichloroethene	49.41	47.96	3 %	OK	< 14
Benzene	52.37	50.19	4 %	OK	< 11
Toluene	50.47	50.02	1 %	OK	< 13
Chlorobenzene	51.20	50.90	1 %	OK	< 13

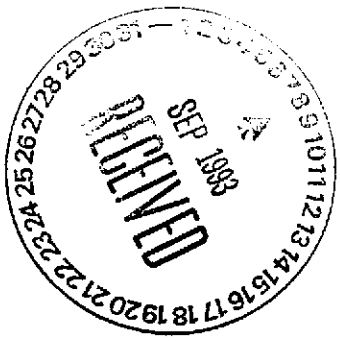
Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 01-SEP-93
Lab Job Number: 112021
Project ID: 820.001
Location: 6707 Bay St.



Reviewed by:

Reviewed by:

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Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 112021

Project Name: 6707 Bay St.
Project Number: 820.001

Report Date: 01 September 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520BF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
112021-001	MW-1	Water	25-AUG-93	25-AUG-93	31-AUG-93	ND	mg/L	5	TR	10374
112021-002	MW-3	Water	25-AUG-93	25-AUG-93	31-AUG-93	ND	mg/L	5	TR	10374
112021-003	MW-8	Water	25-AUG-93	25-AUG-93	31-AUG-93	ND	mg/L	5	TR	10374

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

QC Batch Report

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 112021
Report Date: 01 September 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 10374**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	31-AUG-93

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	84%	SMWW 17:5520BF	31-AUG-93
BSD	82%	SMWW 17:5520BF	31-AUG-93

		Control Limits
Average Spike Recovery	83%	80% - 120%
Relative Percent Difference	3.2%	< 20%

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-1
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET
SAMPLE ID: MW-1

DATE SAMPLED: 08/25/93
DATE RECEIVED: 08/25/93
DATE ANALYZED: 08/27/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107 %
Toluene-d8	106 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-2
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET
SAMPLE ID: MW-3

DATE SAMPLED: 08/25/93
DATE RECEIVED: 08/25/93
DATE ANALYZED: 08/27/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	111 %
Toluene-d8	104 %
Bromofluorobenzene	102 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-3
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET
SAMPLE ID: MW-8

DATE SAMPLED: 08/25/93
DATE RECEIVED: 08/25/93
DATE ANALYZED: 08/30/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	3,000
Bromomethane	ND	3,000
Vinyl chloride	ND	3,000
Chloroethane	ND	3,000
Methylene chloride	ND	5,000
Acetone	ND	5,000
Carbon disulfide	ND	1,000
Trichlorofluoromethane	ND	1,000
1,1-Dichloroethene	ND	1,000
1,1-Dichloroethane	ND	1,000
cis-1,2-Dichloroethene	ND	1,000
trans-1,2-Dichloroethene	ND	1,000
Chloroform	ND	1,000
Freon 113	ND	1,000
1,2-Dichloroethane	ND	1,000
2-Butanone	ND	3,000
1,1,1-Trichloroethane	ND	1,000
Carbon tetrachloride	ND	1,000
Vinyl acetate	ND	3,000
Bromodichloromethane	ND	1,000
1,2-Dichloropropane	ND	1,000
cis-1,3-Dichloropropene	ND	1,000
Trichloroethene	ND	1,000
Dibromochloromethane	ND	1,000
1,1,2-Trichloroethane	ND	1,000
Benzene	ND	1,000
trans-1,3-Dichloropropene	ND	1,000
Bromoform	ND	1,000
2-Hexanone	ND	3,000
4-Methyl-2-pentanone	48,000	3,000
1,1,2,2-Tetrachloroethane	ND	1,000
Tetrachloroethene	ND	1,000
Toluene	ND	1,000
Chlorobenzene	ND	1,000
Ethyl benzene	ND	1,000
Styrene	ND	1,000
Total xylenes	ND	1,000

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	101 %
Toluene-d8	96 %
Bromofluorobenzene	95 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET

DATE ANALYZED: 08/27/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L		Reporting Limit (ug/L)
Chloromethane	ND		10
Bromomethane	ND		10
Vinyl chloride	ND		10
Chloroethane	ND		10
Methylene chloride	ND		20
Acetone	ND		20
Carbon disulfide	ND		5
Trichlorofluoromethane	ND		5
1,1-Dichloroethene	ND		5
1,1-Dichloroethane	ND		5
cis-1,2-Dichloroethene	ND		5
trans-1,2-Dichloroethene	ND		5
Chloroform	ND		5
Freon 113	ND		5
1,2-Dichloroethane	ND		5
2-Butanone	ND		10
1,1,1-Trichloroethane		6	5
Carbon tetrachloride	ND		5
Vinyl acetate	ND		10
Bromodichloromethane	ND		5
1,2-Dichloropropane	ND		5
cis-1,3-Dichloropropene	ND		5
Trichloroethene	ND		5
Dibromochloromethane	ND		5
1,1,2-Trichloroethane	ND		5
Benzene	ND		5
trans-1,3-Dichloropropene	ND		5
Bromoform	ND		5
2-Hexanone	ND		10
4-Methyl-2-pentanone	ND		10
1,1,2,2-Tetrachloroethane	ND		5
Tetrachloroethene	ND		5
Toluene	ND		5
Chlorobenzene	ND		5
Ethyl benzene	ND		5
Styrene	ND		5
Total xylenes	ND		5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	111 %
Toluene-d8	104 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112021-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY STREET

DATE ANALYZED: 08/30/93
DATE REPORTED: 09/01/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
cis-1,2-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	10
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	93 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

QC SUMMARY SHEET FOR EPA 8240

Laboratory Number:	112021		
Client:	Subsurface Consultants	Spike file:	brh18
Analysis date:	08/28/93	Spike dup file:	brh19
Sample type:	Water		

SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	48.88	98 %	OK	61 - 145
Trichloroethene	49.38	99 %	OK	71 - 120
Benzene	47.96	96 %	OK	76 - 127
Toluene	42.81	86 %	OK	76 - 125
Chlorobenzene	47.11	94 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	51.37	103 %	OK	76 - 114
Toluene-d8	49.61	99 %	OK	88 - 110
Bromofluorobenzene	48.95	98 %	OK	86 - 115
	48.41			

SPIKE DUP DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	50.98	102 %	OK	61 - 145
Trichloroethene	47.62	95 %	OK	71 - 120
Benzene	45.85	92 %	OK	76 - 127
Toluene	42.65	85 %	OK	76 - 125
Chlorobenzene	47.24	94 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	49.49	99 %	OK	76 - 114
Toluene-d8	49.08	98 %	OK	88 - 110
Bromofluorobenzene	48.77	98 %	OK	86 - 115

MATRIX RESULTS	
1,1-Dichloroethene	0
Trichloroethene	0
Benzene	0
Toluene	0
Chlorobenzene	0

RPD DATA

SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	48.88	50.98	4 %	OK	< 14
Trichloroethene	49.38	47.62	4 %	OK	< 14
Benzene	47.96	45.85	4 %	OK	< 11
Toluene	42.81	42.65	0 %	OK	< 13
Chlorobenzene	47.11	47.24	0 %	OK	< 13

Curtis & Tompkins, Ltd.

QC SUMMARY SHEET FOR EPA 8240

Laboratory Number: 112021
Client: Subsurface Consultants
Analysis date: 08/30/93
Sample type: Water
Spike file: chu08
Spike dup file: chu09

SPIKE DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	47.04	94 %	OK	61 - 145
Trichloroethene	50.75	102 %	OK	71 - 120
Benzene	239.67	83 %	OK	76 - 127
Toluene	46.45	91 %	OK	76 - 125
Chlorobenzene	51.47	103 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	51.37	103 %	OK	76 - 114
Toluene-d8	48.84	98 %	OK	88 - 110
Bromofluorobenzene	47.68	95 %	OK	86 - 115

SPIKE DUP DATA (spiked at 50 ppb)

SPIKE COMPOUNDS	READING	RECOVERY	STATUS	LIMITS
1,1-Dichloroethene	49.11	98 %	OK	61 - 145
Trichloroethene	53.36	107 %	OK	71 - 120
Benzene	243.71	91 %	OK	76 - 127
Toluene	47.86	93 %	OK	76 - 125
Chlorobenzene	53.57	107 %	OK	75 - 130
SURROGATES				
1,2-Dichloroethane-d4	51.00	102 %	OK	76 - 114
Toluene-d8	48.46	97 %	OK	88 - 110
Bromofluorobenzene	46.63	93 %	OK	86 - 115

MATRIX RESULTS	
1,1-Dichloroethene	0
Trichloroethene	0
Benzene	198.39
Toluene	1.14
Chlorobenzene	0

RPD DATA

SPIKE COMPOUNDS	SPIKE	SPIKE DUP	RPD	STATUS	LIMITS
1,1-Dichloroethene	47.04	49.11	4 %	OK	< 14
Trichloroethene	50.75	53.36	5 %	OK	< 14
Benzene	239.67	243.71	2 %	OK	< 11
Toluene	46.45	47.86	3 %	OK	< 13
Chlorobenzene	51.47	53.57	4 %	OK	< 13

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 30-NOV-93
Lab Job Number: 113251
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: _____

Reviewed by: _____

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251-01
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-1

DATE SAMPLED: 11/18/93
DATE RECEIVED: 11/18/93
DATE ANALYZED: 11/24/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	40
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	107 %
Bromofluorobenzene	102 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251-02
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-3

DATE SAMPLED: 11/18/93
DATE RECEIVED: 11/18/93
DATE ANALYZED: 11/24/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	104 %
Toluene-d8	102 %
Bromofluorobenzene	99 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251-03
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-8

DATE SAMPLED: 11/18/93
DATE RECEIVED: 11/18/93
DATE ANALYZED: 11/24/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl chloride	ND	50
Chloroethane	ND	50
Methylene chloride	ND	100
Acetone	ND	100
Carbon disulfide	ND	25
Trichlorofluoromethane	ND	25
1,1-Dichloroethene	ND	25
1,1-Dichloroethane	ND	25
trans-1,2-Dichloroethene	ND	25
cis-1,2-Dichloroethene	ND	25
Chloroform	ND	25
Freon 113	ND	25
1,2-Dichloroethane	ND	25
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	25
Carbon tetrachloride	ND	25
Vinyl acetate	ND	250
Bromodichloromethane	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
Trichloroethene	ND	25
Dibromochloromethane	ND	25
1,1,2-Trichloroethane	ND	25
Benzene	ND	25
trans-1,3-Dichloropropene	ND	25
Bromoform	ND	25
2-Hexanone	ND	50
4-Methyl-2-pentanone	840	50
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
Chlorobenzene	ND	25
Ethyl benzene	ND	25
Styrene	ND	25
Total xylenes	ND	25

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	107 %
Toluene-d8	96 %
Bromofluorobenzene	94 %

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LABORATORY NUMBER: 113251
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 11/23/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	8	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	100 %
Toluene-d8	100 %
Bromofluorobenzene	105 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 113251
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 80.001
LOCATION: 6707 BAY ST.
SAMPLE ID: METHOD BLANK

DATE ANALYZED: 11/24/93
DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	106 %
Toluene-d8	103 %
Bromofluorobenzene	98 %

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MS/MSD Report

Matrix Sample Number: 113224-001
Lab No: QC53042 QC53043
Matrix: WATER
Batch No: 11584 939416 939417 939411

Date Analyzed: 24-NOV-93
Spike File: >BKN17
Spike Dup File: >BKN18
Analyst: CW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	51.62	50	100 %	61-145%
Trichloroethene	54.89	50	110 %	71-120%
Benzene	54.45	50	102 %	76-127%
Toluene	55.56	50	92 %	76-125%
Chlorobenzene	53.21	50	106 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	49.66	50	99 %	76-114%
Toluene-d8	52.86	50	106 %	88-110%
Bromofluorobenzene	50.82	50	102 %	86-115%
MSD RESULTS				
1,1-Dichloroethene	47.43	50	92 %	61-145%
Trichloroethene	51.76	50	104 %	71-120%
Benzene	53.28	50	100 %	76-127%
Toluene	54.71	50	90 %	76-125%
Chlorobenzene	51.02	50	102 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.45	50	97 %	76-114%
Toluene-d8	50.8	50	102 %	88-110%
Bromofluorobenzene	47.95	50	96 %	86-115%

MATRIX RESULTS	
1,1-Dichloroethene	1.45
Trichloroethene	0
Benzene	3.48
Toluene	9.81
Chlorobenzene	0

RPD DATA		
1,1-Dichloroethene	8 %	< 14%
Trichloroethene	6 %	< 14%
Benzene	2 %	< 11%
Toluene	2 %	< 13%
Chlorobenzene	4 %	< 13%

Results within Specifications - PASS CW 11/24/93

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

MS/MSD Report

Matrix Sample Number: 113289-006
Lab No: QC53117 QC53118
Matrix: WATER
Batch No: 11605 939439 939440 939436

Date Analyzed: 24-NOV-93
Spike File: >BKO13
Spike Dup File: >BKO14
Analyst: CK

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	42.34	50	85 %	61-145%
Trichloroethene	48.33	50	97 %	71-120%
Benzene	49.39	50	97 %	76-127%
Toluene	46.27	50	93 %	76-125%
Chlorobenzene	50.29	50	100 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	52.31	50	105 %	76-114%
Toluene-d8	49.97	50	100 %	88-110%
Bromofluorobenzene	51.04	50	102 %	86-115%
MSD RESULTS				
1,1-Dichloroethene	43.21	50	86 %	61-145%
Trichloroethene	50.4	50	101 %	71-120%
Benzene	51.08	50	100 %	76-127%
Toluene	47.12	50	94 %	76-125%
Chlorobenzene	50.63	50	100 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	53.88	50	108 %	76-114%
Toluene-d8	52.02	50	104 %	88-110%
Bromofluorobenzene	50.78	50	102 %	86-115%

MATRIX RESULTS		
1,1-Dichloroethene	0	
Trichloroethene	0	
Benzene	.891	
Toluene	0	
Chlorobenzene	.482	
RPD DATA		
1,1-Dichloroethene	2 %	< 14%
Trichloroethene	4 %	< 14%
Benzene	3 %	< 11%
Toluene	2 %	< 13%
Chlorobenzene	1 %	< 13%

Results within Specifications - PASS

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 113251

Report Date: 30 November 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD:** SMWW 17:5520BF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
113251-001	MW-1	Water	18-NOV-93	18-NOV-93	18-NOV-93	ND	mg/L	5	TR	11545
113251-002	MW-3	Water	18-NOV-93	18-NOV-93	18-NOV-93	ND	mg/L	5	TR	11545
113251-003	MW-8	Water	18-NOV-93	18-NOV-93	18-NOV-93	14.	mg/L	5	TR	11545

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

QC Batch Report

Client: Subsurface Consultants

Laboratory Login Number: 113251
Report Date: 30 November 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 11545**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	18-NOV-93

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	86%	SMWW 17:5520BF	18-NOV-93
BSD	88%	SMWW 17:5520BF	18-NOV-93

		Control Limits
Average Spike Recovery	87%	80% - 120%
Relative Percent Difference	2.4%	< 20%

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 07-MAR-94
Lab Job Number: 114517
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by:

Reviewed by:

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 114517-001
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-1

DATE SAMPLED: 02/25/94
DATE RECEIVED: 02/25/94
DATE ANALYZED: 02/28/94
DATE REPORTED: 03/07/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone (MEK)	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone (MIBK)	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	111 %
Bromofluorobenzene	90 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 114517-002
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-3

DATE SAMPLED: 02/25/94
DATE RECEIVED: 02/25/94
DATE ANALYZED: 02/28/94
DATE REPORTED: 03/07/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone (MEK)	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone (MIBK)	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	102 %
Toluene-d8	106 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 114517-003
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-8

DATE SAMPLED: 02/25/94
DATE RECEIVED: 02/25/94
DATE ANALYZED: 02/28/94
DATE REPORTED: 03/07/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	1,000
Bromomethane	ND	1,000
Vinyl chloride	ND	1,000
Chloroethane	ND	1,000
Methylene chloride	ND	2,000
Acetone	ND	2,000
Carbon disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	500
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
Freon 113	ND	500
1,2-Dichloroethane	ND	500
2-Butanone (MEK)	ND	1,000
1,1,1-Trichloroethane	ND	500
Carbon tetrachloride	ND	500
Vinyl acetate	ND	5,000
Bromodichloromethane	ND	500
1,2-Dichloropropane	ND	500
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	500
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	500
Benzene	ND	500
trans-1,3-Dichloropropene	ND	500
Bromoform	ND	500
2-Hexanone	ND	1,000
4-Methyl-2-pentanone (MIBK)	14,000	1,000
1,1,2,2-Tetrachloroethane	ND	500
Tetrachloroethene	ND	500
Toluene	ND	500
Chlorobenzene	ND	500
Ethyl benzene	ND	500
Styrene	ND	500
Total xylenes	ND	500

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	107 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 114517-METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: N/A

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 02/28/94
DATE REPORTED: 03/07/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	101 %
Toluene-d8	107 %
Bromofluorobenzene	96 %

Curtis & Tompkins, Ltd

MS/MSD Report

Curtis & Tompkins, Ltd.

Matrix Sample Number: 114451-005
Lab No: QC58211 QC58212
Matrix: WATER
Batch No: 12919 9412684 9412686 9412663

Date Analyzed: 28-FEB-94
Spike File: >CBS17
Spike Dup File: >CBS18
Analyst: CW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	46.24	50	93 %	61-145%
Trichloroethene	51.36	50	103 %	71-120%
Benzene	47.36	50	95 %	76-127%
Toluene	45.27	50	91 %	76-125%
Chlorobenzene	51.27	50	103 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.61	50	97 %	76-114%
Toluene-d8	51.06	50	102 %	88-110%
Bromofluorobenzene	45.18	50	90 %	86-115%
MSD RESULTS				
1,1-Dichloroethene	45.58	50	91 %	61-145%
Trichloroethene	52.42	50	105 %	71-120%
Benzene	48.71	50	97 %	76-127%
Toluene	46.36	50	93 %	76-125%
Chlorobenzene	52.48	50	105 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.96	50	98 %	76-114%
Toluene-d8	50.83	50	102 %	88-110%
Bromofluorobenzene	47.35	50	95 %	86-115%
MATRIX RESULTS				
1,1-Dichloroethene	0			
Trichloroethene	0			
Benzene	0			
Toluene	0			
Chlorobenzene	0			

RPD DATA		
1,1-Dichloroethene	1 %	< 14%
Trichloroethene	2 %	< 14%
Benzene	3 %	< 11%
Toluene	2 %	< 13%
Chlorobenzene	2 %	< 13%

Results within Specifications - PASS CW 3/1/94

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 114517

Project Name: 6707 Bay St.
Project Number: 820.001

Report Date: 07 March 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520BF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
114517-001	MW-1	Water	25-FEB-94	25-FEB-94	03-MAR-94	ND	mg/L	5	TR	13004
114517-002	MW-3	Water	25-FEB-94	25-FEB-94	03-MAR-94	ND	mg/L	5	TR	13004
114517-003	MW-8	Water	25-FEB-94	25-FEB-94	03-MAR-94	ND	mg/L	5	TR	13004

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

QC Batch Report

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 114517
Report Date: 07 March 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **QC Batch Number: 13004**

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	03-MAR-94

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	84%	SMWW 17:5520BF	03-MAR-94
BSD	87%	SMWW 17:5520BF	03-MAR-94

		Control Limits
Average Spike Recovery	86%	80% - 120%
Relative Percent Difference	3.2%	< 20%

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Subsurface Consultants
171 12th Street
Suite 201
Oakland, CA 94608

Date: 05-MAY-94
Lab Job Number: 115298
Project ID: 820.001
Location: 6707 Bay St.

Reviewed by: Mary Pleasant

Reviewed by: Kathryl O'Brien

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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115298-002
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-8

DATE SAMPLED: 04/21/94
DATE RECEIVED: 04/22/94
DATE ANALYZED: 05/03/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	1,000
Bromomethane	ND	1,000
Vinyl chloride	ND	1,000
Chloroethane	ND	1,000
Methylene chloride	ND	2,000
Acetone	ND	2,000
Carbon disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	500
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
Freon 113	ND	500
1,2-Dichloroethane	ND	500
2-Butanone	ND	1,000
1,1,1-Trichloroethane	ND	500
Carbon tetrachloride	ND	500
Vinyl acetate	ND	5,000
Bromodichloromethane	ND	500
1,2-Dichloropropane	ND	500
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	500
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	500
Benzene	ND	500
trans-1,3-Dichloropropene	ND	500
Bromoform	ND	500
2-Hexanone	ND	1,000
4-Methyl-2-pentanone	19,000	1,000
1,1,2,2-Tetrachloroethane	ND	500
Tetrachloroethene	ND	500
Toluene	ND	500
Chlorobenzene	ND	500
Ethyl benzene	ND	500
Styrene	ND	500
Total xylenes	ND	500

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103 %
Toluene-d8	99 %
Bromofluorobenzene	104 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115298-003
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-9

DATE SAMPLED: 04/21/94
DATE RECEIVED: 04/22/94
DATE ANALYZED: 05/03/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	120	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	98 %
Toluene-d8	106 %
Bromofluorobenzene	95 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115298-004
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.
SAMPLE ID: MW-10

DATE SAMPLED: 04/21/94
DATE RECEIVED: 04/22/94
DATE ANALYZED: 05/04/94
DATE REPORTED: 05/05/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	22	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	23	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	Detected(3)	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	108 %
Toluene-d8	102 %
Bromofluorobenzene	102 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115298 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 05/03/94
DATE REPORTED: 05/05/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	104 %
Toluene-d8	96 %
Bromofluorobenzene	99 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115298 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 05/03/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	94 %
Toluene-d8	100 %
Bromofluorobenzene	100 %

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115298 METHOD BLANK
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 05/04/94
DATE REPORTED: 05/04/94

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

ND = Not detected at or above reporting limit

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	108 %
Toluene-d8	105 %
Bromofluorobenzene	101 %

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

CLP VOCN Laboratory Control Sample Report

Lab No: QC62164 LCS Datafile: >BE206
Date Analyzed: 02-MAY-94
Matrix: WATER Operator: CW
Batch No: 13972 9416952

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	58.33	50	117 %	61-145%
Trichloroethene	49.38	50	99 %	71-120%
Benzene	56.01	50	112 %	76-127%
Toluene	54.24	50	108 %	76-125%
Chlorobenzene	55.15	50	110 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	51.77	50	104 %	76-114%
Toluene-d8	52.12	50	104 %	88-110%
Bromofluorobenzene	52.56	50	105 %	86-115%

Results within Specifications - PASS

Curtis & Tompkins, Ltd.

Curtis & Tompkins, Ltd

8240 Laboratory Control Sample Report

Lab No: QC62270
Date Analyzed: 03-MAY-94
Matrix: WATER
Batch No: 13999 9416998

LCS Datafile: >BE303
Operator: CW

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	58.55	50	117 %	61-145%
Trichloroethene	45.36	50	91 %	71-120%
Benzene	47.25	50	95 %	76-127%
Toluene	44.37	50	89 %	76-125%
Chlorobenzene	46.77	50	94 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	47.37	50	95 %	76-114%
Toluene-d8	50.04	50	100 %	88-110%
Bromofluorobenzene	49.73	50	99 %	86-115%

Results within Specifications - PASS CW 5/4/94

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

8240 Laboratory Control Sample Report

Lab No: QC62370
Date Analyzed: 04-MAY-94
Matrix: WATER
Batch No: 14023 9417073

LCS Datafile: >BE404
Operator: CW

Compound	Instrdg	SpikeAmt	% Rec	Limits
1,1-Dichloroethene	60.05	50	120 %	61-145%
Trichloroethene	45.63	50	91 %	71-120%
Benzene	51.24	50	102 %	76-127%
Toluene	52.39	50	105 %	76-125%
Chlorobenzene	50.46	50	101 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	50.84	50	102 %	76-114%
Toluene-d8	52.29	50	105 %	88-110%
Bromofluorobenzene	49.25	50	99 %	86-115%

Results within Specifications - PASS

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115298
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 04/21/94
DATE RECEIVED: 04/22/94
DATE ANALYZED: 04/25/94
DATE REPORTED: 05/02/94

Total Volatile Hydrocarbons as Gasoline in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	TVH AS GASOLINE (ug/L)	REPORTING LIMIT (ug/L)
115298-001	MW-3	60	50
115298-002	MW-8	5900	50
115298-003	MW-9	920	50
115298-004	MW-10	680	50
METHOD BLANK		ND	50

ND = Not detected at or above reporting limit.

QA/QC SUMMARY

RPD, %	1
RECOVERY, %	83

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 115298
CLIENT: SUBSURFACE CONSULTANTS
PROJECT ID: 820.001
LOCATION: 6707 BAY ST.

DATE SAMPLED: 04/21/94
DATE RECEIVED: 04/22/94
DATE EXTRACTED: 04/26/94
DATE ANALYZED: 04/28/94
DATE REPORTED: 05/02/94

Extractable Petroleum Hydrocarbons in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	KEROSENE RANGE (ug/L)	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
115298-001	MW-3	ND	430	50
115298-002	MW-8	**	2,800	50
115298-003	MW-9	**	680	50
115298-004	MW-10	**	2,100	50

** Kerosene range not reported due to overlap of hydrocarbon ranges.

ND = Not detected at or above reporting limit. Reporting limit applies to all analytes.

QA/QC SUMMARY:

RPD, %	2
RECOVERY, %	82

Curtis & Tompkins, Ltd.

Client: Subsurface Consultants

Laboratory Login Number: 115298

Project Name: 6707 Bay St.
Project Number: 820.001

Report Date: 02 May 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) **METHOD: SMWW 17:5520BF**

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batch
115298-001	MW-3	Water	21-APR-94	22-APR-94	27-APR-94	ND	mg/L	5	TR	13919
115298-002	MW-8	Water	21-APR-94	22-APR-94	27-APR-94	ND	mg/L	5	TR	13919
115298-003	MW-9	Water	21-APR-94	22-APR-94	27-APR-94	ND	mg/L	5	TR	13919
115298-004	MW-10	Water	21-APR-94	22-APR-94	27-APR-94	ND	mg/L	5	TR	13919

ND = Not Detected at or above Reporting Limit (RL).

Curtis & Tompkins, Ltd.

Q C B a t c h R e p o r t

Client: Subsurface Consultants
Project Name: 6707 Bay St.
Project Number: 820.001

Laboratory Login Number: 115298
Report Date: 02 May 94

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric)

QC Batch Number: 13919

Blank Results

Sample ID	Result	MDL	Units	Method	Date Analyzed
BLANK	ND	5	mg/L	SMWW 17:5520BF	27-APR-94

Spike/Duplicate Results

Sample ID	Recovery	Method	Date Analyzed
BS	84%	SMWW 17:5520BF	27-APR-94
BSD	86%	SMWW 17:5520BF	27-APR-94

		Control Limits
Average Spike Recovery	85%	80% - 120%
Relative Percent Difference	3.1%	< 20%

CHAIN OF CUSTODY FORM

PROJECT NAME: 6707 BAY STREET

JOB NUMBER: 820.001 LAB: CURTIS & TOMPKINS

PROJECT CONTACT: MACK KAWAKAMI TURNAROUND: NORMAL

SAMPLED BY: CHRIS ODEA REQUESTED BY: MACK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	SOIL	WASTE	AIR			CONTAINERS: VOA	LITER	PINT	TUBE			METHOD PRESERVED: HCL	H_2SO_4	HNO_3	ICE	NONE		SAMPLING DATE: MONTH	DAY	YEAR	TIME				NOTES	ANALYSIS REQUESTED: 8015 (GAS/BTEX 8020)	TEH	TVH	EPA 8240
115298-1	MW-3	X						X	X					X			X			04	21	94					X	X	X	
-2	MW-8	X						X	X					X			X			〃	〃	〃					X	X	X	X
-3	MW-9	X						X	X					X			X			〃	〃	〃					X	X	X	X
-4	MW-10	X						X	X					X			X			04	21	94					X	X	X	X

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/22/94 2:30	[signature]	4/22/94 2:30 pm

COMMENTS & NOTES:

- INCLUDE MEK & MIBK IN 8240 ANALYSIS

only 1 liter from each other liter no pres.

Subsurface Consultants, Inc.
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(510) 268-0461 • FAX: 510-268-0137

CHAIN OF CUSTODY FORM

PAGE ____ OF ____

PROJECT NAME: 6707 BAY STREET
JOB NUMBER: 820.001
PROJECT CONTACT: MARK KAWAKAMI
SAMPLED BY: FERNANDO VELEZ
LAB: CURTIS & TOMPKINS
TURNAROUND: NORMAL
REQUESTED BY: MARK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	SOIL	WASTE	AIR	CONTAINERS: VOA	LITER	PINT	TUBE	METHOD PRESERVED: HCL	H_2SO_4	HNO_3	ICE	NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME	NOTES	ANALYSIS REQUESTED: 8240	8240
	MW-1	X				3	1			X			X		08	25	93			X	X
	MW-3	X				3	1			X			X		08	25	93			X	X
	MW-8	X				3	1			X			X		08	25	93			X	X

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	8/25/93 1:30	Teresa K. Morrison	8/25/93 1:30
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES:

ADD METHYL ETHYL KETONE AND METHYL ISOBUTYL KETONE TO 8240 ANALYSIS

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CHAIN OF CUSTODY FORM

PAGE 1 OF 1

PROJECT NAME: Bay Street

JOB NUMBER: 820.001 LAB: Curtis & Tompkins

PROJECT CONTACT: Mark Kawakami TURNAROUND: Normal

SAMPLED BY: Charles Pearson REQUESTED BY: MK

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX						CONTAINERS						METHOD PRESERVED					SAMPLING DATE				NOTES	ANALYSIS REQUESTED											
		WATER	SOIL	WASTE	AIR			VOA	LITER	PINT	TUBE			HCL	H_2SO_4	HNO_3	ICE	NONE	MONTH	DAY	YEAR	TIME													
	MW-1	X						4	1					X			X		11	18	93														
	MW-3	X						4	1					X			X		11	18	93														
	MW-8	X						4	1					X			X		11	18	93														

CHAIN OF CUSTODY RECORD			
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Charles Pearson	11-18-93 12:35		11/18/93 12:35
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES:

MTBE & MEK

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CHAIN OF CUSTODY FORM

PAGE ____ OF ____

PROJECT NAME: Bay St.
JOB NUMBER: 820.001
PROJECT CONTACT: Mark Kawakami
SAMPLED BY: Dennis Alexander
LAB: Curtis & Tompkins
TURNAROUND: Normal
REQUESTED BY: Mark Kawakami

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	SOIL	WASTE	AIR	CONTAINERS: VOA	LITER	PINT	TUBE	METHOD PRESERVED: HCL	H_2SO_4	HNO_3	ICE	NONE	SAMPLING DATE: MONTH	DAY	YEAR	TIME	NOTES	ANALYSIS REQUESTED: 8240	04G
	MW-1	X				3	1			X			X		02	25	94	1130	X	X	X
	MW-3	X				3	1			X			X		02	25	94	1220	X	X	X
	MW-8	X				3	1			X			X		02	25	94	1315	X	X	X

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Dennis Alexander	2/25/94 1:35 p.m.	[signature]	2/25/94 13:35
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES:
Include Methyl Isobutyl Ketone and Methyl Ethyl Ketone in 8240 analysis

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T1534

CHAIN OF CUSTODY FORM

PROJECT NAME: 6707 BAY ST
JOB NUMBER: 820.001
PROJECT CONTACT: MARK KAWAKAMI
SAMPLED BY: JOHN WOLFE
LAB: Curtis & Tompkins
TURNAROUND: Normal
REQUESTED BY: MARK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	MATRIX: SOIL	MATRIX: WASTE	MATRIX: AIR	CONTAINERS: VOA	CONTAINERS: LITER	CONTAINERS: PINT	CONTAINERS: TUBE	METHOD PRESERVED: HCL	METHOD PRESERVED: H_2SO_4	METHOD PRESERVED: HNO_3	METHOD PRESERVED: ICE	METHOD PRESERVED: NONE	SAMPLING DATE: MONTH	SAMPLING DATE: DAY	SAMPLING DATE: YEAR	SAMPLING DATE: TIME	NOTES	ANALYSIS REQUESTED: EDB 8260
-1	TB@14.5		X						X				X		04	13	94		X	X
-2	TB@14.5		X						X				X		04	14	94		X	X
-3	TB@14.0		X						X				X		04	14	94		X	X
	CO																			

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
[signature]	4/24/94 3:10pm	Mary Moran	4/24/94 3:10

COMMENTS & NOTES:

Include MTBE in BTEX analysis

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CHAIN OF CUSTODY FORM

11552

PAGE 1 OF 1

PROJECT NAME: 6707 BAY STREET

JOB NUMBER: 820.001

PROJECT CONTACT: MARK KAWAKAMI

SAMPLED BY: JOHN WOLFE

LAB: CURTIS & TOMPKINS

TURNAROUND: NORMAL

REQUESTED BY: MARK KAWAKAMI

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX: WATER	MATRIX: SOIL	MATRIX: WASTE	MATRIX: AIR	CONTAINERS: VOA	CONTAINERS: LITER	CONTAINERS: PINT	CONTAINERS: TUBE	METHOD PRESERVED: HCL	METHOD PRESERVED: H_2SO_4	METHOD PRESERVED: HNO_3	METHOD PRESERVED: ICE	METHOD PRESERVED: NONE	SAMPLING DATE: MONTH	SAMPLING DATE: DAY	SAMPLING DATE: YEAR	SAMPLING DATE: TIME	NOTES	ANALYSIS REQUESTED: TVH	ANALYSIS REQUESTED: TEH
-1	T10 14		X						X				X		04	13	94			X	X
-2	T10 14		X						X				X		04	14	94		X	X	X

CHAIN OF CUSTODY RECORD

RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
Dennis Alexander	5/6/94 | 2:45 p.m.	Mary Pearson	5/6/94 | 12:45
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES:

T10K WAS PREVIOUSLY SUBMITTED (11520-1

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BLOWS per 1/2 Ft.	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
			0	0.2 ft. Asphalt Brown, damp, loose, gravel and SAND	NEAT CEMENT
		GW	1	Gray-brown, damp to moist, medium-dense, gravel (concrete fragments) cobbles and SAND	
			2		
			3		BENTONITE SEAL / BLANK CASING
			4		
15 19 25	S-B1-5.5	CL	5	Blue-gray, damp to moist, firm to stiff, gravely CLAY OVA = 340	
			6		
			7		
			8		
		SM	9	Gray and white (salt & pepper), moist to wet, medium dense, very-fine-grained SAND with shell fragments OVA = 370	
5 12 16	S-B1-10.5		10	GROUND WATER	NO. 3 SAND SLOTTED CASING
			11		
			12		
			13		
			14		
			15		
2 3 19	S-B1-16	CL	16	Light-gray and dark blue gray, saturated, stiff, CLAY with wood fibers and greasy, hydrocarbon and transformer odor OVA = 640	
			17		
			18		
			19		
		CL/SM	20	Light gray and blue gray, saturated, firm to stiff CLAY with sand and wood fragments OVA = 520	

REGISTERED GEOLOGIST JON JACKI ARENDT R.G.4322 Exp. 10-50 STATE OF CALIFORNIA

LW Environmental Services, Inc.
2111 Jennings St., San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

LOG OF BORING B-1

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

MRCP 00738

PLATE 1a

Blows per 1/2 Ft.	Sample Numbers	USCS	Depth in Feet	DESCRIPTION	Well Const.
14 14 17	S-B1-20.5	CL/SM	- 20	Light gray and blue gray, saturated, firm to stiff CLAY with sand and wood fragments OVA = 520	NO. 3 SAND SLOTTED CASING
			- 21		
			- 22	wood fragments common	
			- 23		
			- 24		
10 13 30	S-B1-25.5	CL	- 25	Brown to tan, wet, stiff CLAY (few wood fibers) OVA = 350	
			- 26		
			- 27		BLANK CASING
			- 28		
			- 29		
5		CL	- 30	Brown to tan, saturated, stiff CLAY	
11 32	S-B1-30.5	SM	- 31	Light-gray, saturated, medium-dense, silty, very-fine-grained SAND	
			- 32		
			- 33	Total Depth: 31.5 feet Ground water encountered at 10.7 feet Monitoring well installed 7-5-89 0 - 5.0 ft. blank casing 5.0 - 25.0 ft. slotted casing 25.0 - 30.0 ft. blank casing Well developed on 7-6-89	
			- 34		
			- 35		
			- 36		
			- 37		
			- 38		
			- 39		
			- 40		

REGISTERED GEOLOGIST
JON (JACK) ARENDT
R.G. 4322
Exp. 6-30-90
STATE OF CALIFORNIA

LW Environmental Services, Inc.
2111 Jennings St. San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

LOG OF BORING B-1

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

PROJECT NUMBER: 9077

MRCP 00739

PLATE 1b

BLOWS PER FOOT	SAMPLE NUMBERS	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
			- 0	**Fill**	
			- 1	Chunks of concrete, brick and debris	
			- 2		
		SM	- 3	Dark gray, damp, medium dense, silty **SAND** with brick and debris	
10 8 7	S-B3- 5.0		- 4	**Native bay mud & fill debris**	
		SC	- 5	Red-brown and gray, dense, silty **CLAYEY SAND** with brick and debris OVA = 50	
			- 6		
			- 7		
			- 8	GW encountered	
		CL	- 9	Gray-blue gray, wet, soft, silty **CLAY** with gravel	
2 2 2	NR		-10		
			-11		
	S-B3- 12	CL	-12	Blue-gray, wet, soft, silty, gravely **CLAY** with gravel OVA = 150	
			-13	**BAY MUD WITH FILL**	
			-14		
Push for 18"	S-B3- 15	CL	-15	Blue, green, gray and black, wet, soft, gravely **CLAY** 1/3 sample saturated with black, old HC oil OVA = 260	
			-16		
			-17		
			-18		
			-19	**OLDER BAY MUD**	
Push for 18	S-B3- 20	CL	-20	Light brown-tan, wet, stiff, sandy **CLAY** OVA = 260	

REGISTERED GEOLOGIST
JON (JACK) ARENDT
R.G. 4322
Exp. 6-30-70
STATE OF CALIFORNIA

LW Environmental Services, Inc.
2111 Jennings St., San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

LOG OF BORING B-3

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

MRCP 00742

PLATE 3a

PROJECT NUMBER: 9077

BLOWS PER FOOT	SAMPLE NUMBER	USCS	DEPTH IN FEET	DESCRIPTION	WELL CONST.
			-20	Light brown-tan, wet, stiff, sandy CLAY OVA = 260	
			-21		
			-22		
			-23		
			-24		
Push for 12" 1 for 6'	S-B3-25	CL	-25	Light brown-tan, wet, stiff, sandy CLAY	
			-26		
			-27		
			-28		
			-29	Total Depth: 26.0 feet Ground water encountered at 9.8 feet Monitoring well installed 8-23-89 0 - 5.0 ft. blank casing 5.0 - 25.0 ft. slotted casing Well developed on 9-7-89	
			-30		
			-31		
			-32		
			-33		
			-34		
			-35		
			-36		
			-37		
			-38		
			-39		
			-40		

REGISTERED JON (JACK) ARENDT R.G. 4322 Exp. 3-31-90 STATE OF CALIFORNIA

LW Environmental Services, Inc.
2111 Jennings St. San Francisco, CA 94124-3224
(415) 822-4555 FAX (415) 822-5290

PROJECT NUMBER: 9077

LOG OF BORING B-3

Mike Roberts Color Productions
6707 Bay Street
Emeryville, California

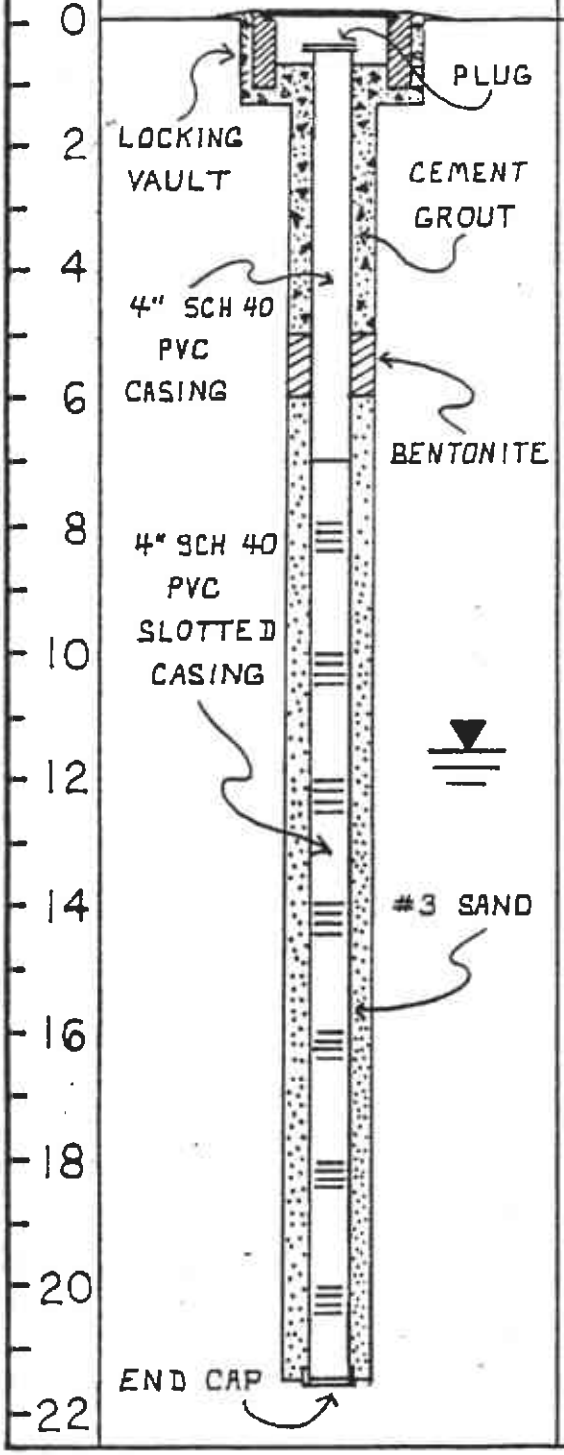
PLATE 3b

MRCP 00743

BORING LOG

Project: MRCP
Location: Emeryville
Job #: 0389058.00
Geologist/Engineer: Don McClenagan
Drill Agency: Bay Area Exploration

Hole/Well #: MW-8
Diameter of Drill Hole: 10.5 inches
Total Depth of Hole: 21.5 feet
Date Started: 1-3-90
Date Completed: 1-4-90



MRCP 00121

SCS ENGINEERS

APPENDIX G

REGULATORY AGENCY DATABASE REPORT
(PROVIDED ON CD-ROM)

6701, 6705, & 6707 Shellmound Street
6701, 6705, & 6707 Shellmound Street
Emeryville, CA 94608

Inquiry Number: 3787465.2s
November 18, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

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

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Detail Map	3
Map Findings Summary	4
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Orphan Summary	506
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

6701, 6705, & 6707 SHELLMOUND STREET
EMERYVILLE, CA 94608

COORDINATES

Latitude (North):	37.8483000 - 37° 50' 53.88''
Longitude (West):	122.2957000 - 122° 17' 44.52''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	561964.8
UTM Y (Meters):	4189012.2
Elevation:	17 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	37122-G3 OAKLAND WEST, CA
Most Recent Revision:	1980

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2012
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

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

Site	Database(s)	EPA ID
MIKE ROBERTS COLOR PRODUCTIONS (M 6707 BAY ST EMERYVILLE, CA 94608	HIST CORTESE SLIC Facility Status: Open - Remediation Alameda County CS ENVIROSTOR Status: Refer: Other Agency	N/A
MIKE ROBERTS COLOR PRODUCTION, 6707 BAY STREET EMERYVILLE, CA 94608	EMI	N/A
ESSELTE PENDAFLEX DYMO DIV 6701 BAY ST EMERYVILLE, CA	RCRA-SQG FINDS	CAD064155476

NAVY SYSTEMS INC 6707 BAY ST EMERYVILLE, CA 94608	HAZNET	N/A
MIKE ROBERTS COLOR PRODUCTIONS 6707 BAY STREET EMERYVILLE, CA 94608	CERC-NFRAP	CAD009133190
MIKE ROBERTS COLOR PROD INC 6707 BAY ST EMERYVILLE, CA 94608	LUST	N/A
UNKNOWN 6707 BAY STREET EMERYVILLE, CA 94608	SPILLS 90	N/A
MIKE ROBERTS COLOR PRODUCTION 6701 & 6707 BAY ST EMERYVILLE, CA 94608	HAZNET	N/A

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

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

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

EXECUTIVE SUMMARY

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

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 leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST ---------- Active UST Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal voluntary cleanup sites

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

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ---------- 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
SCH ---------- School Property Evaluation Program
Toxic Pits ---------- 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

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

Other Ascertainable Records

DOT OPS - Incident and Accident Data
DOD - Department of Defense Sites
CONSENT - Superfund (CERCLA) Consent Decrees
ROD - Records Of Decision
UMTRA - Uranium Mill Tailings Sites
US MINES - Mines Master Index File
TRIS - Toxic Chemical Release Inventory System
TSCA - Toxic Substances Control Act
FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS - FIFRA/TSCA Tracking System Administrative Case Listing
SSTS - Section 7 Tracking Systems
ICIS - Integrated Compliance Information System
PADS - PCB Activity Database System
MLTS - Material Licensing Tracking System
RADINFO - Radiation Information Database
RAATS - RCRA Administrative Action Tracking System
RMP - Risk Management Plans
UIC - UIC Listing
NPDES - NPDES Permits Listing
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
WIP - Well Investigation Program Case List
ENF - Enforcement Action Listing
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

EXECUTIVE SUMMARY

EDR US Hist Cleaners EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-NFRAP: 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.

A review of the CERC-NFRAP list, as provided by EDR, and dated 04/26/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERKELEY IND COURT	***729 HEINZ AVE***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V95***	***193***

Federal RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 07/11/2013 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOVARTIS VACCINES & DIAGNOSTIC	6455 CHRISTLE STREET	S 1/8 - 1/4 (0.229 mi.)	L57	92

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

A review of the RCRA-SQG list, as provided by EDR, and dated 07/11/2013 has revealed that there are 11 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COULTER STEEL & FORGE CO	***1494 67TH ST***	***ENE 0 - 1/8 (0.067 mi.)***	***B9***	***15***
GIAMPOLINI	***1482 67TH ST***	***E 0 - 1/8 (0.074 mi.)***	***B16***	***28***
ATLAS PACIFIC ENGRG CO INC DEL	***1321-67TH ST AT HOLLIS***	***ENE 1/8 - 1/4 (0.126 mi.)***	***25***	***44***
WEATHERFORD B M W	***735 ASHBY AVE***	***NE 1/8 - 1/4 (0.135 mi.)***	***F29***	***48***
LBNL BLDG 977 POTTER STREET	717 POTTER STREET	NNE 1/8 - 1/4 (0.186 mi.)	H39	63
BAYER CORP APC LAB	***717 POTTER ST***	***NNE 1/8 - 1/4 (0.186 mi.)***	***H41***	***67***
SIEMENS HEALTHCARE DIAGNOSTICS	***725 POTTER ST***	***NNE 1/8 - 1/4 (0.194 mi.)***	***H44***	***71***
WEATHERFORD MITSUBISHI	***750 POTTER ST***	***NNE 1/8 - 1/4 (0.213 mi.)***	***K51***	***82***
VETERANS AFFAIRS OUTPATIENT CL	***841 FOLGER AVE***	***ENE 1/8 - 1/4 (0.224 mi.)***	***56***	***91***
B E P EMERYVILLE TECH L L C	***6529 HOLLIS ST***	***ESE 1/8 - 1/4 (0.239 mi.)***	***M63***	***106***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KELIOS THERAPEUTICS	***6455 CHRISTIE AVE***	***S 1/8 - 1/4 (0.229 mi.)***	***L58***	***100***

State- and tribal - equivalent NPL

RESPONSE: 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.

A review of the RESPONSE list, as provided by EDR, and dated 09/05/2013 has revealed that there are 11 RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SEVENTH STREET PROPERTIES II	***700 HEINZ AVENUE***	***N 1/4 - 1/2 (0.325 mi.)***	***V87***	***176***
BERKELEY INDUSTRIAL COURT	***729 HEINZ AVENUE***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V96***	***194***
TEMESCAL BUSINESS CENTER	***2850 7TH STREET***	***NNE 1/4 - 1/2 (0.461 mi.)***	***130***	***267***
HEINZ/GRAYSON PLUME	***7TH STREET AND GRAYSON***	***NNE 1/2 - 1 (0.513 mi.)***	***140***	***311***
MYERS DRUM - OAKLAND	***6549 SAN PABLO AVE***	***E 1/2 - 1 (0.551 mi.)***	***AH148***	***351***
HSP PROPERTY	***1301 59TH STREET***	***SE 1/2 - 1 (0.621 mi.)***	***155***	***409***
INDUSTRIAL HARD CHROME	***5701 HOLLIS STREET***	***SSE 1/2 - 1 (0.771 mi.)***	***169***	***471***

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRANSO/LACOSTE SITE	***1600 64TH STREET/6401 B***	***SSE 1/4 - 1/2 (0.303 mi.)***	***O73***	***119***
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***
EMERYVILLE MARKETPLACE	***BTW 64TH & POWELL ST ON***	***S 1/2 - 1 (0.524 mi.)***	***141***	***316***
RYDER/PIE NATIONWIDE INC	***5500 EASTSHORE HWY***	***S 1/2 - 1 (0.767 mi.)***	***168***	***465***

State- and tribal - equivalent CERCLIS

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

A review of the ENVIROSTOR list, as provided by EDR, and dated 09/05/2013 has revealed that there are 37 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
METALCO Status: Inactive - Needs Evaluation	1475 - 67TH STREET	E 0 - 1/8 (0.086 mi.)	B19	36
NIRP BERKELEY Status: Inactive - Needs Evaluation		NNE 1/8 - 1/4 (0.147 mi.)	G35	59
CAMP ASHBY Status: No Further Action		NE 1/4 - 1/2 (0.322 mi.)	T84	172
SEVENTH STREET PROPERTIES II Status: Certified	***700 HEINZ AVENUE***	***N 1/4 - 1/2 (0.325 mi.)***	***V87***	***176***
BERKELEY INDUSTRIAL COURT Status: Refer: RWQCB	***729 HEINZ AVENUE***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V96***	***194***
TEMESCAL BUSINESS CENTER Status: Refer: RWQCB	***2850 7TH STREET***	***NNE 1/4 - 1/2 (0.461 mi.)***	***130***	***267***
DUTRO SITE Status: No Further Action	***1333-1379 62ND STREET***	***SE 1/4 - 1/2 (0.492 mi.)***	***AF137***	***288***
1171 OCEAN AVENUE Status: Active	***1171 OCEAN AVENUE***	***ESE 1/2 - 1 (0.510 mi.)***	***139***	***297***
HEINZ/GRAYSON PLUME Status: Refer: RWQCB	***7TH STREET AND GRAYSON***	***NNE 1/2 - 1 (0.513 mi.)***	***140***	***311***
US POSTAL SERVICE Status: Refer: Other Agency	***6121 HOLLIS ST***	***SSE 1/2 - 1 (0.534 mi.)***	***142***	***326***
MARCHANT CORPORATION SITE Status: Active	***6701 SAN PABLO AVENUE***	***ENE 1/2 - 1 (0.539 mi.)***	***143***	***329***
EMERYVILLE ORDNANCE DEPOT (J09 Status: No Further Action		SE 1/2 - 1 (0.543 mi.)	AG145	339
MYERS DRUM - OAKLAND Status: Certified / Operation & Maintenance	***6549 SAN PABLO AVE***	***E 1/2 - 1 (0.551 mi.)***	***AH148***	***351***
ELECTRO-COATINGS IND Status: Refer: Other Agency	***893 CARLETON ST***	***NNE 1/2 - 1 (0.608 mi.)***	***AI152***	***385***
COLGATE-PALMOLIVE Status: Certified	***2700 7TH STREET***	***NNE 1/2 - 1 (0.613 mi.)***	***AI153***	***400***
HSP PROPERTY Status: No Further Action	***1301 59TH STREET***	***SE 1/2 - 1 (0.621 mi.)***	***155***	***409***
MILES INC CUTTER BIOLOGICAL FA Status: Refer: Other Agency	4TH AND PARKER STREETS	N 1/2 - 1 (0.656 mi.)	160	426

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OWENS TRUCKING AND CONCRETE SA	***5812 HOLLIS ST***	***SSE 1/2 - 1 (0.662 mi.)***	***161***	***427***
Status: No Further Action				
PARKSIDE EMERYVILLE	***5780 HOLLIS ST. & 1255***	***SE 1/2 - 1 (0.753 mi.)***	***166***	***461***
Status: Active				
INDUSTRIAL HARD CHROME	***5701 HOLLIS STREET***	***SSE 1/2 - 1 (0.771 mi.)***	***169***	***471***
Status: Refer: RWQCB				
Status: Refer: 1248 Local Agency				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRANSO/LACOSTE SITE	***1600 64TH STREET/6401 B***	***SSE 1/4 - 1/2 (0.303 mi.)***	***O73***	***119***
Status: No Further Action				
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***
Status: Certified / Operation & Maintenance				
Status: Certified				
64TH & CHRISTIE	***6340 AND 6390 CHRISTIE***	***S 1/4 - 1/2 (0.360 mi.)***	***107***	***212***
Status: Refer: Other Agency				
63RD STREET TRUNK SEWER PROJEC	***63RD STREET***	***SSE 1/4 - 1/2 (0.384 mi.)***	***Z112***	***220***
Status: No Further Action				
EMERYVILLE MARKETPLACE	***BTW 64TH & POWELL ST ON***	***S 1/2 - 1 (0.524 mi.)***	***141***	***316***
Status: Certified O&M - Land Use Restrictions Only				
EMERYVILLE MOUND PARCEL	***59TH STREET AND HORTON***	***SSE 1/2 - 1 (0.558 mi.)***	***149***	***373***
Status: Active				
BAY STREET EXTENSION	***64TH & POWELL STREETS***	***SSE 1/2 - 1 (0.625 mi.)***	***AJ156***	***412***
Status: Certified / Operation & Maintenance				
WOODFIN SUITE HOTEL	***5800 SHELLMOUND***	***SSE 1/2 - 1 (0.626 mi.)***	***AJ157***	***420***
Status: No Further Action				
BRE GATEWAY DEVELOPMENT	***5801, 5855 AND 5857 CHR***	***S 1/2 - 1 (0.634 mi.)***	***158***	***422***
Status: Inactive - Action Required				
CHEVRON ASPHALT PLANT & TERMIN	***1520 POWELL STREET***	***SSE 1/2 - 1 (0.679 mi.)***	***AK162***	***435***
Status: Refer: Other Agency				
SOUTH BAY FRONT SITE B	***1525-1535 POWELL ST & 5***	***SSE 1/2 - 1 (0.679 mi.)***	***AK163***	***437***
Status: Active				
MARCHANT/WHITNEY	***5679 HORTON STREET***	***SSE 1/2 - 1 (0.753 mi.)***	***165***	***454***
Status: Active				
WATERGATE OFFICE TOWERS	1900-2200 POWELL STREET	SSW 1/2 - 1 (0.760 mi.)	167	464
Status: Inactive - Needs Evaluation				
RYDER/PIE NATIONWIDE INC	***5500 EASTSHORE HWY***	***S 1/2 - 1 (0.767 mi.)***	***168***	***465***
Status: Refer: Other Agency				
HORTON LANDING PARK	***STANFORD AVENUE & HORTO***	***SSE 1/2 - 1 (0.820 mi.)***	***170***	***475***
Status: Refer: Other Agency				
SOUTH BAYFRONT PROJECT	***4650, 5500, & 5600 SHEL***	***S 1/2 - 1 (0.834 mi.)***	***171***	***476***
Status: Certified / Operation & Maintenance				
SHELLMOUND VENTURE PROJECT	***SHELLMOUND STREET***	***S 1/2 - 1 (0.882 mi.)***	***172***	***497***
Status: Certified O&M - Land Use Restrictions Only				

EXECUTIVE SUMMARY

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

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

A review of the SWF/LF list, as provided by EDR, and dated 08/19/2013 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMERYVILLE ASHBY (POINT EMERY)	W END OF ASHBY AVE	WSW 1/8 - 1/4 (0.143 mi.)	32	51

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 48 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COULTER STEEL & FORGE CO	***1494 67TH ST***	***ENE 0 - 1/8 (0.067 mi.)***	***B9***	***15***
Status: Completed - Case Closed				
CLEARPRINT PAPER CO	***1482 67TH ST***	***E 0 - 1/8 (0.074 mi.)***	***B14***	***24***
Status: Completed - Case Closed				
ABBOT, COLE & DEGRAF, INC.	***6603 BAY ST***	***SSE 0 - 1/8 (0.085 mi.)***	***C17***	***31***
Status: Open - Site Assessment				
MUSSALLEM / SYBASE	***6601 BAY ST***	***SSE 0 - 1/8 (0.086 mi.)***	***C20***	***37***
Status: Open - Site Assessment				
DIESEL FUEL TANK AREA FORMER	***722 FOLGER AVE***	***NE 0 - 1/8 (0.112 mi.)***	***D22***	***42***
WEATHERFORD BMW/NISSHO IRWAI	***735 ASHBY AVE***	***NE 1/8 - 1/4 (0.135 mi.)***	***F28***	***46***
Status: Open - Site Assessment				
HOLETT MACHINE WORKS	746 FOLGER AVENUE	NE 1/8 - 1/4 (0.142 mi.)	E31	50
Status: Completed - Case Closed				
GRING PEST CONTROL SERVICE, IN	***741 FOLGER AVE***	***NE 1/8 - 1/4 (0.163 mi.)***	***37***	***60***
Status: Completed - Case Closed				
BAY EXPORT SERVICES	***717 POTTER ST***	***NNE 1/8 - 1/4 (0.186 mi.)***	***H40***	***66***
BAY EXPORT SERVICES	***717 POTTER***	***NNE 1/8 - 1/4 (0.186 mi.)***	***H42***	***69***
Status: Completed - Case Closed				
MCGRATH STEEL CO.	***6655 HOLLIS ST***	***E 1/8 - 1/4 (0.202 mi.)***	***J48***	***77***
Status: Open - Assessment & Interim Remedial Action				
MCGRATH STEEL COMPANY	***6655 HOLLIS ST***	***E 1/8 - 1/4 (0.202 mi.)***	***J50***	***81***
WEATHERFORD MITSUBISHI	***750 POTTER ST***	***NNE 1/8 - 1/4 (0.213 mi.)***	***K51***	***82***
Status: Completed - Case Closed				
RYERSON STEEL & ALUMINUM	***1465 65TH ST***	***SE 1/8 - 1/4 (0.213 mi.)***	***I55***	***88***
Status: Completed - Case Closed				
ASHBY TEXACO	***840 ASHBY AVE***	***NE 1/8 - 1/4 (0.250 mi.)***	***N65***	***110***
Status: Completed - Case Closed				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ESPRESSO ROMA / LOUSIGHT PROPE	***1310 65TH ST***	***ESE 1/4 - 1/2 (0.308 mi.)***	***P75***	***157***
Status: Completed - Case Closed				
GEO M MARTIN COMPANY	***1308 65TH***	***ENE 1/4 - 1/2 (0.310 mi.)***	***Q76***	***159***
Status: Completed - Case Closed				
RIX INDUSTRIES-FRANK DEWOLF	***6460 HOLLIS ST***	***SE 1/4 - 1/2 (0.313 mi.)***	***R77***	***161***
UNION OIL CO, CALIF.	***901 ASHBY AVE***	***NE 1/4 - 1/2 (0.316 mi.)***	***80***	***164***
Status: Open - Verification Monitoring				
LIQUID SUGARS INC	***1275 66TH ST***	***E 1/4 - 1/2 (0.323 mi.)***	***U85***	***173***
Status: Completed - Case Closed				
OAKLAND DIESEL FACILITY	***1301 65TH ST***	***ESE 1/4 - 1/2 (0.323 mi.)***	***P86***	***174***
Status: Completed - Case Closed				
SEVENTH STREET PROPERTIES II	***700 HEINZ AVENUE***	***N 1/4 - 1/2 (0.325 mi.)***	***V87***	***176***
Status: Completed - Case Closed				
COPPER & BRASS SALES	***1295 67TH ST***	***ENE 1/4 - 1/2 (0.326 mi.)***	***Q89***	***189***
Status: Completed - Case Closed				
PLANT INSULATION COMPANY	***1372 OCEAN AVE***	***ESE 1/4 - 1/2 (0.331 mi.)***	***R91***	***190***
BERKELEY INDUSTRIAL COURT	***729 HEINZ AVENUE***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V96***	***194***
Status: Completed - Case Closed				
BERKELEY INDUSTRIAL COMPLEX	***729 HEINZ ST***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V97***	***199***
J. T. THORPE & SON, INC.	***1351 OCEAN AVE***	***ESE 1/4 - 1/2 (0.345 mi.)***	***101***	***206***
Status: Completed - Case Closed				
MACBETH HARDWARE COMPANY	***930 ASHBY AVE***	***NE 1/4 - 1/2 (0.345 mi.)***	***102***	***208***
Status: Completed - Case Closed				
MISSION TAYLOR PROPERTIES	***1410 64TH ST***	***SE 1/4 - 1/2 (0.349 mi.)***	***X103***	***210***
Status: Completed - Case Closed				
OLIVER LOFTS	***1200 65TH ST***	***E 1/4 - 1/2 (0.403 mi.)***	***115***	***229***
Status: Completed - Case Closed				
EMERYVILLE FIRE STATION #2	6303 HOLLIS ST	SE 1/4 - 1/2 (0.407 mi.)	AA116	236
EMERYVILLE FIRE DEPARTMENT	***6303 HOLLIS ST***	***SE 1/4 - 1/2 (0.407 mi.)***	***AA117***	***236***
Status: Open - Assessment & Interim Remedial Action				
JWP MECHANICAL	***999 ANTHONY ST***	***NE 1/4 - 1/2 (0.408 mi.)***	***118***	***240***
Status: Completed - Case Closed				
ASPHALT PRODUCTS OIL CORPORATI	***1001 ASHBY AVE***	***ENE 1/4 - 1/2 (0.418 mi.)***	***AB120***	***247***
Status: Completed - Case Closed				
FOLGER MURPHY PROPERTY	***1020 MURRAY ST***	***ENE 1/4 - 1/2 (0.434 mi.)***	***122***	***250***
Status: Completed - Case Closed				
PQ CORP THE	***801 GRAYSON ST***	***N 1/4 - 1/2 (0.459 mi.)***	***129***	***262***
Status: Completed - Case Closed				
AA JOHNSON & SON INC	***1164 66TH ST***	***E 1/4 - 1/2 (0.473 mi.)***	***131***	***270***
Status: Completed - Case Closed				
CHRONICLE DEPOT	***2817 7TH ST***	***NNE 1/4 - 1/2 (0.485 mi.)***	***134***	***285***
Status: Completed - Case Closed				
HOLLIS STREET PROJECT	***6050 HOLLIS ST***	***SE 1/4 - 1/2 (0.488 mi.)***	***AE136***	***287***
Status: Completed - Case Closed				
DUTRO COMPANY	***1333 62ND STREET***	***SE 1/4 - 1/2 (0.492 mi.)***	***AF138***	***291***
Status: Completed - Case Closed				

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMERY BAY PLAZA	***1650 65TH ST***	***S 1/8 - 1/4 (0.145 mi.)***	***33***	***52***
Status: Open - Assessment & Interim Remedial Action				

Lower Elevation	Address	Direction / Distance	Map ID	Page
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***
Status: Open - Site Assessment				
EMERY BAY MARKETPLACE	***0 UNK 64TH ST & CHRISTI***	***S 1/4 - 1/2 (0.334 mi.)***	***W94***	***192***
LERER BROTHERS TRANSMISSION	***6340 CHRISTIE AVE***	***S 1/4 - 1/2 (0.342 mi.)***	***W100***	***201***
Status: Open - Eligible for Closure				
KING KNIGHT COMPANY	***6202 CHRISTIE AVE***	***S 1/4 - 1/2 (0.380 mi.)***	***108***	***214***
Status: Completed - Case Closed				
PETERSON MFG. CO.	***1600 063RD ST***	***SSE 1/4 - 1/2 (0.387 mi.)***	***Z113***	***222***
Status: Open - Site Assessment				
PETERSON MFTG. CO.	***1600 63RD ST***	***SSE 1/4 - 1/2 (0.387 mi.)***	***Z114***	***228***
USPS	1505 62ND STREET	SSE 1/4 - 1/2 (0.442 mi.)	AD127	256
Status: Open - Site Assessment				

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 40 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIESEL FUEL TANK AREA FORMER	722 FOLGER AVE	NE 0 - 1/8 (0.097 mi.)	D21	41
Facility Status: Open - Inactive				
DIESEL FUEL TANK AREA FORMER	***722 FOLGER AVE***	***NE 0 - 1/8 (0.112 mi.)***	***D22***	***42***
Facility Status: Completed - Case Closed				
DIESEL FUEL TANK AREA FORMER	722 FOLGER AVE	NE 0 - 1/8 (0.112 mi.)	D23	43
1465 65TH ST (RYERSON-TULL)	1465 65TH STREET	SE 1/8 - 1/4 (0.213 mi.)	I54	88
RYERSON STEEL & ALUMINUM	***1465 65TH ST***	***SE 1/8 - 1/4 (0.213 mi.)***	***I55***	***88***
Facility Status: Open - Inactive				
GROVE VALVE & REGULATOR COMPAN	***6529 HOLLIS***	***ESE 1/8 - 1/4 (0.239 mi.)***	***M62***	***106***
Facility Status: Completed - Case Closed				
B E P EMERYVILLE TECH L L C	***6529 HOLLIS ST***	***ESE 1/8 - 1/4 (0.239 mi.)***	***M63***	***106***
Facility Status: Open - Site Assessment				
WAREHAM DEVELOPMENT	2900 5TH ST	NNE 1/4 - 1/2 (0.277 mi.)	68	116
Facility Status: Open - Inactive				
LIQUID SUGARS INC (TOXICS)	1269 66TH	E 1/4 - 1/2 (0.278 mi.)	69	117
Facility Status: Completed - Case Closed				
UC BERKELEY	UNKNOWN MURRY ST & FOLG	ENE 1/4 - 1/2 (0.300 mi.)	72	119
Facility Status: Open - Inactive				
RIX INDUSTRIES-FRANK DEWOLF	***6460 HOLLIS ST***	***SE 1/4 - 1/2 (0.313 mi.)***	***R77***	***161***
Facility Status: Open - Site Assessment				
UNION OIL CO, CALIF.	***901 ASHBY AVE***	***NE 1/4 - 1/2 (0.316 mi.)***	***80***	***164***
SUPERGEN	***6450 HOLLIS ST***	***SE 1/4 - 1/2 (0.321 mi.)***	***R83***	***171***
Facility Status: Completed - Case Closed				
PLANT INSULATION COMPANY	***1372 OCEAN AVE***	***ESE 1/4 - 1/2 (0.331 mi.)***	***R91***	***190***
Facility Status: Open - Site Assessment				
BERKELEY IND COURT	***729 HEINZ AVE***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V95***	***193***
BERKELEY INDUSTRIAL COURT	***729 HEINZ AVENUE***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V96***	***194***
Facility Status: Open - Inactive				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BERKELEY INDUSTRIAL COMPLEX	***729 HEINZ ST***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V97***	***199***
1266 66TH ST - LIQUID SUGARS	1266 66TH ST	E 1/4 - 1/2 (0.339 mi.)	U98	200
Facility Status: Open - Verification Monitoring				
1266 66TH ST	1266 66TH ST	E 1/4 - 1/2 (0.339 mi.)	U99	201
PRIVATE RESIDENCE	PRIVATE RESIDENCE	ENE 1/4 - 1/2 (0.382 mi.)	Y110	217
Facility Status: Completed - Case Closed				
Facility Status: Open - Site Assessment				
OLIVER LOFTS	***1200 65TH ST***	***E 1/4 - 1/2 (0.403 mi.)***	***115***	***229***
Facility Status: Completed - Case Closed				
ASPHALT PROD OIL CO	***1001 ASHBY AVE***	***ENE 1/4 - 1/2 (0.418 mi.)***	***AB119***	***241***
REDEVELOPMENT AGENCY	1265 1269 OCEAN AVE	ESE 1/4 - 1/2 (0.427 mi.)	121	249
NATIONAL STARCH & CHEMICAL CO	***742 GRAYSON ST.***	***N 1/4 - 1/2 (0.437 mi.)***	***AC123***	***252***
HENKEL CORP	***742 GRAYSON ST***	***N 1/4 - 1/2 (0.437 mi.)***	***AC124***	***255***
Facility Status: Open - Inactive				
VACANT LOT	***1258 64TH ST***	***ESE 1/4 - 1/2 (0.439 mi.)***	***125***	***255***
Facility Status: Completed - Case Closed				
TEMESCAL BUSINESS CENTER	***2850 7TH STREET***	***NNE 1/4 - 1/2 (0.461 mi.)***	***130***	***267***
Facility Status: Open - Inactive				
DUTRO COMPANY	***1333 62ND STREET***	***SE 1/4 - 1/2 (0.492 mi.)***	***AF138***	***291***
Facility Status: Open - Site Assessment				

Lower Elevation	Address	Direction / Distance	Map ID	Page
REDEVELOPMENT AGENCY TRANSOL L	6401 BAY ST	SSE 1/8 - 1/4 (0.191 mi.)	43	71
GARRETT FREIGHTLINES / BAY CEN	***0 64TH & LACOSTE***	***S 1/8 - 1/4 (0.233 mi.)***	***59***	***103***
Facility Status: Open - Site Assessment				
UNKNOWN	3707 BAY ST	SSE 1/8 - 1/4 (0.238 mi.)	61	105
Facility Status: Open - Inactive				
RYDER/PIE NATIONWIDE, INC.	***5500 EASTSHORE HWY***	***SSW 1/4 - 1/2 (0.272 mi.)***	***67***	***115***
ADVANTAGE TIRE SERVICES	***5892 CHRISTIE AVE***	***S 1/4 - 1/2 (0.284 mi.)***	***70***	***117***
Facility Status: Open - Site Assessment				
MARKET PLACE MARTIN COMPANY	UNKNOWN CHRISTIE AVE	S 1/4 - 1/2 (0.298 mi.)	71	118
Facility Status: Open - Inactive				
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***
Facility Status: Open - Inactive				
TRANSO ENVELOPE CO.	***1600 64TH ST***	***S 1/4 - 1/2 (0.314 mi.)***	***S78***	***163***
Facility Status: Open - Inactive				
TRANSOL LANCOSTE SITE	1600 64TH ST	S 1/4 - 1/2 (0.314 mi.)	S79	164
SIMEON - 64TH STREET PROPERTIE	1480 64TH STREET	SSE 1/4 - 1/2 (0.320 mi.)	82	170
Facility Status: Completed - Case Closed				
EMERY BAY MARKETPLACE	UNK 64TH ST & CHRISTIE	SSE 1/4 - 1/2 (0.326 mi.)	S88	188
Facility Status: Open - Site Assessment				
SHELLMOND PROPERTIES	4300 EASTSHORE HWY	S 1/4 - 1/2 (0.478 mi.)	133	284

EXECUTIVE SUMMARY

Alameda County CS: 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).

A review of the Alameda County CS list, as provided by EDR, and dated 07/25/2013 has revealed that there are 38 Alameda County CS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COULTER STEEL & FORGE CO	***1494 67TH ST***	***ENE 0 - 1/8 (0.067 mi.)***	***B9***	***15***
CLEARPRINT PAPER CO	***1482 67TH ST***	***E 0 - 1/8 (0.074 mi.)***	***B14***	***24***
ABBOT, COLE & DEGRAF, INC.	***6603 BAY ST***	***SSE 0 - 1/8 (0.085 mi.)***	***C17***	***31***
MUSSALLEM / SYBASE	***6601 BAY ST***	***SSE 0 - 1/8 (0.086 mi.)***	***C20***	***37***
MCGRATH STEEL CO.	***6655 HOLLIS ST***	***E 1/8 - 1/4 (0.202 mi.)***	***J48***	***77***
RYERSON STEEL & ALUMINUM	***1465 65TH ST***	***SE 1/8 - 1/4 (0.213 mi.)***	***I55***	***88***
GROVE VALVE & REGULATOR COMPAN	***6529 HOLLIS***	***ESE 1/8 - 1/4 (0.239 mi.)***	***M62***	***106***
B E P EMERYVILLE TECH L L C	***6529 HOLLIS ST***	***ESE 1/8 - 1/4 (0.239 mi.)***	***M63***	***106***
ESPRESSO ROMA / LOUSIGHT PROPE	***1310 65TH ST***	***ESE 1/4 - 1/2 (0.308 mi.)***	***P75***	***157***
GEO M MARTIN COMPANY	***1308 65TH***	***ENE 1/4 - 1/2 (0.310 mi.)***	***Q76***	***159***
RIX INDUSTRIES-FRANK DEWOLF	***6460 HOLLIS ST***	***SE 1/4 - 1/2 (0.313 mi.)***	***R77***	***161***
SUPERGEN	***6450 HOLLIS ST***	***SE 1/4 - 1/2 (0.321 mi.)***	***R83***	***171***
LIQUID SUGARS INC	***1275 66TH ST***	***E 1/4 - 1/2 (0.323 mi.)***	***U85***	***173***
OAKLAND DIESEL FACILITY	***1301 65TH ST***	***ESE 1/4 - 1/2 (0.323 mi.)***	***P86***	***174***
COPPER & BRASS SALES	***1295 67TH ST***	***ENE 1/4 - 1/2 (0.326 mi.)***	***Q89***	***189***
PLANT INSULATION COMPANY	***1372 OCEAN AVE***	***ESE 1/4 - 1/2 (0.331 mi.)***	***R91***	***190***
LIQUID SUGARS INC (TOXICS)	1269 66TH ST	E 1/4 - 1/2 (0.331 mi.)	U92	192
OAKLAND DIESEL DISTRIBUTORS, I	1289 65TH ST	ESE 1/4 - 1/2 (0.332 mi.)	P93	192
J. T. THORPE & SON, INC.	***1351 OCEAN AVE***	***ESE 1/4 - 1/2 (0.345 mi.)***	***101***	***206***
MISSION TAYLOR PROPERTIES	***1410 64TH ST***	***SE 1/4 - 1/2 (0.349 mi.)***	***X103***	***210***
SYBASE PROPERTIES	1410-50 64TH ST	SE 1/4 - 1/2 (0.349 mi.)	X104	211
FABCO DIVISION	***1249 067TH ST***	***ENE 1/4 - 1/2 (0.382 mi.)***	***Y111***	***218***
OLIVER LOFTS	***1200 65TH ST***	***E 1/4 - 1/2 (0.403 mi.)***	***115***	***229***
EMERYVILLE FIRE DEPARTMENT	***6303 HOLLIS ST***	***SE 1/4 - 1/2 (0.407 mi.)***	***AA117***	***236***
VACANT LOT	***1258 64TH ST***	***ESE 1/4 - 1/2 (0.439 mi.)***	***125***	***255***
AA JOHNSON & SON INC	***1164 66TH ST***	***E 1/4 - 1/2 (0.473 mi.)***	***131***	***270***
HOLLIS STREET PROJECT	***6050 HOLLIS ST***	***SE 1/4 - 1/2 (0.488 mi.)***	***AE136***	***287***
DUTRO COMPANY	***1333 62ND STREET***	***SE 1/4 - 1/2 (0.492 mi.)***	***AF138***	***291***

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMERY BAY PLAZA	***1650 65TH ST***	***S 1/8 - 1/4 (0.145 mi.)***	***33***	***52***
GARRETT FREIGHTLINES / BAY CEN	***0 64TH & LACOSTE***	***S 1/8 - 1/4 (0.233 mi.)***	***59***	***103***
ADVANTAGE TIRE SERVICES	***5892 CHRISTIE AVE***	***S 1/4 - 1/2 (0.284 mi.)***	***70***	***117***
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***
TRANSO ENVELOPE CO.	***1600 64TH ST***	***S 1/4 - 1/2 (0.314 mi.)***	***S78***	***163***
EMERY BAY MARKETPLACE	***0 UNK 64TH ST & CHRISTI***	***S 1/4 - 1/2 (0.334 mi.)***	***W94***	***192***
LERER BROTHERS TRANSMISSION	***6340 CHRISTIE AVE***	***S 1/4 - 1/2 (0.342 mi.)***	***W100***	***201***
KING KNIGHT COMPANY	***6202 CHRISTIE AVE***	***S 1/4 - 1/2 (0.380 mi.)***	***108***	***214***
PETERSON MFG. CO.	***1600 063RD ST***	***SSE 1/4 - 1/2 (0.387 mi.)***	***Z113***	***222***
USPS	1505 62ND ST	SSE 1/4 - 1/2 (0.442 mi.)	AD128	262

State and tribal registered storage tank lists

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

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	735 ASHBY AVE	NE 1/8 - 1/4 (0.135 mi.)	F27	46
Not reported	746 FOLGER AVE	NE 1/8 - 1/4 (0.142 mi.)	E30	50

State and tribal voluntary cleanup sites

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

A review of the VCP list, as provided by EDR, and dated 09/05/2013 has revealed that there are 4 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DUTRO SITE	***1333-1379 62ND STREET***	***SE 1/4 - 1/2 (0.492 mi.)***	***AF137***	***288***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***
64TH & CHRISTIE	***6340 AND 6390 CHRISTIE***	***S 1/4 - 1/2 (0.360 mi.)***	***107***	***212***
63RD STREET TRUNK SEWER PROJEC	***63RD STREET***	***SSE 1/4 - 1/2 (0.384 mi.)***	***Z112***	***220***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/24/2013 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DUTRO/DOYLE HOLLIS PARK	***1379 62ND STREET***	***SE 1/4 - 1/2 (0.474 mi.)***	***132***	***272***

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 4 HIST Cal-Sites sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SEVENTH STREET PROPERTIES II	***700 HEINZ AVENUE***	***N 1/4 - 1/2 (0.325 mi.)***	***V87***	***176***
MYERS DRUM - OAKLAND	6549 SAN PABLO AVENUE	E 1/2 - 1 (0.551 mi.)	AH147	343
COLGATE PALMOLIVE CO	***2700 SEVENTH ST***	***NNE 1/2 - 1 (0.613 mi.)***	***AI154***	***403***

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMERYVILLE MARKETPLACE	***BTW 64TH & POWELL ST ON***	***S 1/2 - 1 (0.524 mi.)***	***141***	***316***

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 9 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COULTER STEEL & FORGE CO.	***1494 67TH ST***	***ENE 0 - 1/8 (0.067 mi.)***	***B11***	***20***
CLEARPRINT PAPER CO	***1482 67TH ST***	***E 0 - 1/8 (0.074 mi.)***	***B14***	***24***
ABBOT, COLE & DEGRAF, INC.	***6603 BAY ST***	***SSE 0 - 1/8 (0.085 mi.)***	***C17***	***31***
GRING PEST CONTROL SERVICE, IN	***741 FOLGER AVE***	***NE 1/8 - 1/4 (0.163 mi.)***	***37***	***60***
BAY EXPORT SERVICES	***717 POTTER ST***	***NNE 1/8 - 1/4 (0.186 mi.)***	***H40***	***66***
MCGRATH STEEL CO.	***6655 HOLLIS ST***	***E 1/8 - 1/4 (0.202 mi.)***	***J48***	***77***
RYERSON STEEL & ALUMINUM	***1465 65TH ST***	***SE 1/8 - 1/4 (0.213 mi.)***	***I55***	***88***
CHALLENGE MANUFACTURING CO.	***1308 067TH ST***	***ENE 1/8 - 1/4 (0.237 mi.)***	***60***	***104***
ASHBY TEXACO	***840 ASHBY AVE***	***NE 1/8 - 1/4 (0.250 mi.)***	***N65***	***110***

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 10 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COULTER STEEL & FORGE CO	***1494 67TH ST***	***ENE 0 - 1/8 (0.067 mi.)***	***B9***	***15***
COULTER STEEL AND FORGE CO.	1494 67TH ST	ENE 0 - 1/8 (0.067 mi.)	B10	20
CLEARPRINT PAPER CO	***1482 67TH ST***	***E 0 - 1/8 (0.074 mi.)***	***B14***	***24***
ABBOT, COLE & DEGRAF, INC.	6603 BAY STREET	SSE 0 - 1/8 (0.085 mi.)	C18	36
GRING PEST CONTROL SERVICE, IN	741 FOLGER AVE	NE 0 - 1/8 (0.124 mi.)	E24	43
BAY EXPORT SERVICES	717 POTTER ST	NNE 1/8 - 1/4 (0.186 mi.)	H38	63
MCGRATH STEEL CO.	6655 HOLLIS ST	E 1/8 - 1/4 (0.202 mi.)	J49	80
MCGRATH STEEL COMPANY	***6655 HOLLIS ST***	***E 1/8 - 1/4 (0.202 mi.)***	***J50***	***81***
RYERSON STEEL	1465 65TH ST	SE 1/8 - 1/4 (0.213 mi.)	I53	87

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ASHBY TEXACO	840 ASHBY AVE	NE 1/8 - 1/4 (0.250 mi.)	N66	114

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 10 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COULTER STEEL & FORGE CO.	***1494 67TH ST***	***ENE 0 - 1/8 (0.067 mi.)***	***B11***	***20***
CLEARPRINT PAPER CO	***1482 67TH ST***	***E 0 - 1/8 (0.074 mi.)***	***B15***	***27***
ABBOT, COLE & DEGRAF, INC.	***6603 BAY ST***	***SSE 0 - 1/8 (0.085 mi.)***	***C17***	***31***
WEATHERFORD BMW/NISSHO IRWAI	***735 ASHBY AVE***	***NE 1/8 - 1/4 (0.135 mi.)***	***F28***	***46***
GRING PEST CONTROL SERVICE, IN	***741 FOLGER AVE***	***NE 1/8 - 1/4 (0.163 mi.)***	***37***	***60***
BAY EXPORT SERVICES	***717 POTTER ST***	***NNE 1/8 - 1/4 (0.186 mi.)***	***H40***	***66***
MCGRATH STEEL COMPANY	***6655 HOLLIS ST***	***E 1/8 - 1/4 (0.202 mi.)***	***J50***	***81***
RYERSON STEEL & ALUMINUM	***1465 65TH ST***	***SE 1/8 - 1/4 (0.213 mi.)***	***I55***	***88***
CHALLENGE MANUFACTURING CO.	***1308 067TH ST***	***ENE 1/8 - 1/4 (0.237 mi.)***	***60***	***104***
ASHBY TEXACO	***840 ASHBY AVE***	***NE 1/8 - 1/4 (0.250 mi.)***	***N65***	***110***

Local Land Records

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

A review of the DEED list, as provided by EDR, and dated 09/11/2013 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***

Other Ascertainable Records

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

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 07/11/2013 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PHARMEX LTD	***1499 67TH ST***	***E 0 - 1/8 (0.071 mi.)***	***B13***	***23***

EXECUTIVE SUMMARY

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

A review of the FUDS list, as provided by EDR, and dated 12/31/2011 has revealed that there are 3 FUDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NAVAL INDUSTRIAL RESERVE PLANT		NNE 1/8 - 1/4 (0.146 mi.)	G34	58
CAMP ASHBY		NE 1/4 - 1/2 (0.319 mi.)	T81	169
EMERYVILLE ORDNANCE DEPOT		SE 1/2 - 1 (0.541 mi.)	AG144	338

CA BOND EXP. 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.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTINGHOUSE ELECTRIC COMPANY	5899 PELADEAU STREET	SSE 1/2 - 1 (0.572 mi.)	150	382

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 07/05/2013 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***

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 45 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ABBOT, COLE & DEGRAF, INC.	***6603 BAY ST***	***SSE 0 - 1/8 (0.085 mi.)***	***C17***	***31***
MUSSALLEM / SYBASE	***6601 BAY ST***	***SSE 0 - 1/8 (0.086 mi.)***	***C20***	***37***
DIESEL FUEL TANK AREA FORMER	***722 FOLGER AVE***	***NE 0 - 1/8 (0.112 mi.)***	***D22***	***42***
WEATHERFORD BMW/NISSHO IRWAI	***735 ASHBY AVE***	***NE 1/8 - 1/4 (0.135 mi.)***	***F28***	***46***
GRING PEST CONTROL SERVICE, IN	***741 FOLGER AVE***	***NE 1/8 - 1/4 (0.163 mi.)***	***37***	***60***
BAY EXPORT SERVICES	***717 POTTER***	***NNE 1/8 - 1/4 (0.186 mi.)***	***H42***	***69***
COULTER STEEL & FORGE COM	1494 65TH	SE 1/8 - 1/4 (0.196 mi.)	I45	76
CLEARPRINT PAPER COMPANY	1482 65TH	SE 1/8 - 1/4 (0.202 mi.)	I47	77
MCGRATH STEEL CO.	***6655 HOLLIS ST***	***E 1/8 - 1/4 (0.202 mi.)***	***J48***	***77***
WEATHERFORD MITSUBISHI	***750 POTTER ST***	***NNE 1/8 - 1/4 (0.213 mi.)***	***K51***	***82***
RYERSON STEEL & ALUMINUM	***1465 65TH ST***	***SE 1/8 - 1/4 (0.213 mi.)***	***I55***	***88***
ASHBY TEXACO	***840 ASHBY AVE***	***NE 1/8 - 1/4 (0.250 mi.)***	***N65***	***110***
ESPRESSO ROMA / LOUSIGHT PROPE	***1310 65TH ST***	***ESE 1/4 - 1/2 (0.308 mi.)***	***P75***	***157***
GEO M MARTIN COMPANY	***1308 65TH***	***ENE 1/4 - 1/2 (0.310 mi.)***	***Q76***	***159***
RIX INDUSTRIES-FRANK DEWOLF	***6460 HOLLIS ST***	***SE 1/4 - 1/2 (0.313 mi.)***	***R77***	***161***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNION OIL CO, CALIF.	***901 ASHBY AVE***	***NE 1/4 - 1/2 (0.316 mi.)***	***80***	***164***
OAKLAND DIESEL FACILITY	***1301 65TH ST***	***ESE 1/4 - 1/2 (0.323 mi.)***	***P86***	***174***
SEVENTH STREET PROPERTIES II	***700 HEINZ AVENUE***	***N 1/4 - 1/2 (0.325 mi.)***	***V87***	***176***
COPPER & BRASS SALES	1295 65TH	ESE 1/4 - 1/2 (0.327 mi.)	P90	190
PLANT INSULATION COMPANY	***1372 OCEAN AVE***	***ESE 1/4 - 1/2 (0.331 mi.)***	***R91***	***190***
BERKELEY INDUSTRIAL COURT	***729 HEINZ AVENUE***	***NNE 1/4 - 1/2 (0.336 mi.)***	***V96***	***194***
J. T. THORPE & SON, INC.	***1351 OCEAN AVE***	***ESE 1/4 - 1/2 (0.345 mi.)***	***101***	***206***
MACBETH HARDWARE COMPANY	***930 ASHBY AVE***	***NE 1/4 - 1/2 (0.345 mi.)***	***102***	***208***
MISSION TAYLOR PROPERTIES	***1410 64TH ST***	***SE 1/4 - 1/2 (0.349 mi.)***	***X103***	***210***
FABCO	1249 67TH	ENE 1/4 - 1/2 (0.353 mi.)	105	212
HFH LIMITED	6400 HOLLIS	SE 1/4 - 1/2 (0.357 mi.)	X106	212
GRAPHIC COATING INC	***6355 HOLLIS ST***	***SE 1/4 - 1/2 (0.380 mi.)***	***109***	***216***
OLIVER LOFTS	***1200 65TH ST***	***E 1/4 - 1/2 (0.403 mi.)***	***115***	***229***
EMERYVILLE FIRE DEPARTMENT	***6303 HOLLIS ST***	***SE 1/4 - 1/2 (0.407 mi.)***	***AA117***	***236***
JWP MECHANICAL	***999 ANTHONY ST***	***NE 1/4 - 1/2 (0.408 mi.)***	***118***	***240***
ASPHALT PRODUCTS OIL CORPORATI	***1001 ASHBY AVE***	***ENE 1/4 - 1/2 (0.418 mi.)***	***AB120***	***247***
FOLGER MURPHY PROPERTY	***1020 MURRAY ST***	***ENE 1/4 - 1/2 (0.434 mi.)***	***122***	***250***
PQ CORP THE	***801 GRAYSON ST***	***N 1/4 - 1/2 (0.459 mi.)***	***129***	***262***
AA JOHNSON & SON INC	***1164 66TH ST***	***E 1/4 - 1/2 (0.473 mi.)***	***131***	***270***
CHRONICLE DEPOT	***2817 7TH ST***	***NNE 1/4 - 1/2 (0.485 mi.)***	***134***	***285***
HOLLIS STREET PROJECT	6050 HOLLIS	SE 1/4 - 1/2 (0.488 mi.)	AE135	287
DUTRO COMPANY	***1333 62ND STREET***	***SE 1/4 - 1/2 (0.492 mi.)***	***AF138***	***291***

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMERY BAY PLAZA	***1650 65TH ST***	***S 1/8 - 1/4 (0.145 mi.)***	***33***	***52***
BAY CENTER PROJECT	1665 65TH	SSW 1/8 - 1/4 (0.151 mi.)	36	60
TRANSO/LACOSTE SITE	***1600 64TH STREET/6401 B***	***SSE 1/4 - 1/2 (0.303 mi.)***	***O73***	***119***
IKEA (FORMER BARBARY COAST)	***4300 EASTSHORE HIGHWAY***	***SSE 1/4 - 1/2 (0.305 mi.)***	***O74***	***123***
EMERY BAY MARKETPLACE	***0 UNK 64TH ST & CHRISTI***	***S 1/4 - 1/2 (0.334 mi.)***	***W94***	***192***
KING KNIGHT COMPANY	***6202 CHRISTIE AVE***	***S 1/4 - 1/2 (0.380 mi.)***	***108***	***214***
PETERSON MFG. CO.	***1600 063RD ST***	***SSE 1/4 - 1/2 (0.387 mi.)***	***Z113***	***222***
POST OFFICE	***1505 62ND***	***SSE 1/4 - 1/2 (0.442 mi.)***	***AD126***	***256***

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 4 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KNOWN	***6400 SAN PABLO***	***E 1/2 - 1 (0.588 mi.)***	***151***	***383***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEATHERFORD BMW, INC.	***5903 CHRISTIE AVE E BAY***	***S 1/2 - 1 (0.548 mi.)***	***146***	***340***
A & J TRUCKING, INC	5600 SHELLMOND AVENUE	S 1/2 - 1 (0.651 mi.)	159	425
MOBIL SERVICE STATION #10 LTV	1700 POWELL STREET	S 1/2 - 1 (0.683 mi.)	164	454

EXECUTIVE SUMMARY

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 5 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	1487 67TH ST	E 0 - 1/8 (0.069 mi.)	B12	22
Not reported	751 FOLGER AVE	NE 1/8 - 1/4 (0.134 mi.)	E26	45
Not reported	753 FOLGER AVE	NE 1/8 - 1/4 (0.198 mi.)	46	76
Not reported	750 POTTER ST	NNE 1/8 - 1/4 (0.213 mi.)	K52	87
Not reported	1400 65TH ST	ESE 1/8 - 1/4 (0.249 mi.)	M64	110

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
CALTRANS WEST FRONTAGE RD	HIST CORTESE
GARRETT FREIGHT LINE	HIST CORTESE
EMERY VILLAGE CENTER	Alameda County CS
BARBARY COAST STEEL CORPORATIO	HIST Cal-Sites, EMI
CAPITOL REF CO	CERC-NFRAP
RYDER/PIE NATIONWIDE, INC.	HIST UST
P*I*E NATIONWIDE, INC.	HIST UST
JUDSON STEEL CORPORATION	HIST UST
GILMAN STREET SELF STORAGE LLC	HAZNET
CHIRON CORPORATION	RCRA NonGen / NLR, FINDS, HAZNET
CITY OF EMERYVILLE OLD SHELLMOUND	HAZNET
CITY OF EMERYVILLE OLD SHELLMOUND	RCRA-SQG
CALTRANS S F O B B TOLL PLAZA	RCRA-SQG, FINDS
HAWKINS TRAFFIC SAFETY SUPPLY	RCRA-LQG
63RD STREET TRUNK SEWER PROJECT	FINDS
SHELLMOUND STREET	FINDS
POWELL STREET PLAZA	FINDS
SHELLMOUND VENTURE PROJECT	FINDS
BERKELEY LANDFILL COMPANY	ENVIROSTOR
CALTRANS WEST FRONTAGE RD BERKELEY	ENVIROSTOR

OVERVIEW MAP - 3787465.2s



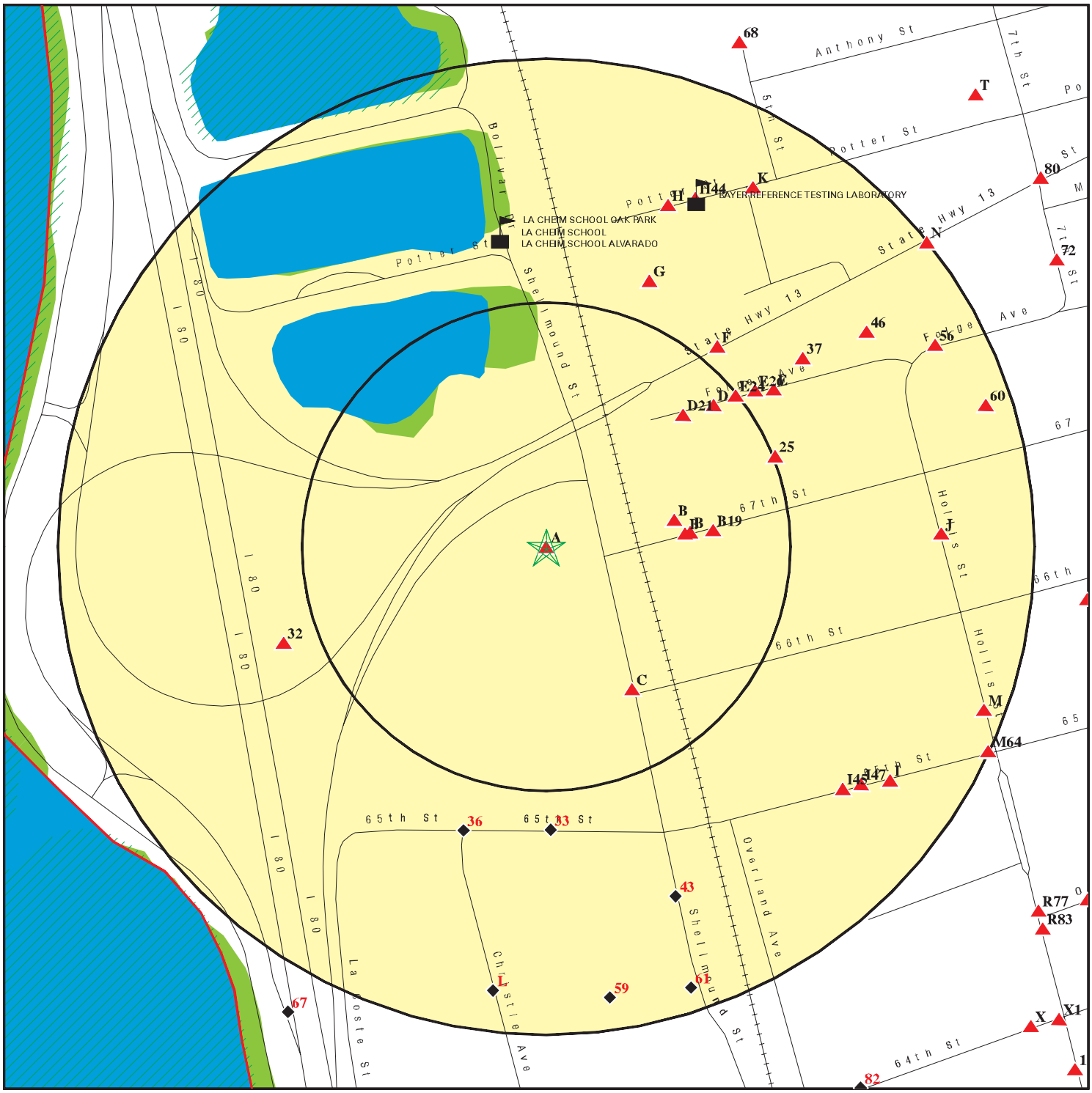
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

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

SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville CA 94608 LAT/LONG: 37.8483 / 122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY #: 3787465.2s DATE: November 18, 2013 9:47 am

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DETAIL MAP - 3787465.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

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

SITE NAME: 6701, 6705, & 6707 Shellmound Street ADDRESS: 6701, 6705, & 6707 Shellmound Street Emeryville CA 94608 LAT/LONG: 37.8483 / 122.2957	CLIENT: PES Environmental, Inc. CONTACT: Julie Turnross INQUIRY #: 3787465.2s DATE: November 18, 2013 9:49 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500	1	0	0	1	NR	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250	1	2	9	NR	NR	NR	12
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	5	6	NR	11
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000	1	1	1	9	26	NR	38
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500	1	5	11	32	NR	NR	49

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC	0.500	1	3	7	30	NR	NR	41
Alameda County CS	0.500	1	4	6	28	NR	NR	39
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	4	NR	NR	4
INDIAN VCP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	1	3	NR	4
SCH	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		3	6	NR	NR	NR	9
HIST UST	0.250		5	5	NR	NR	NR	10
SWEEPS UST	0.250		3	7	NR	NR	NR	10
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	1	NR	NR	1
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP	1	NR	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	1	1	1	NR	3
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	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	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	1	NR	NR	1
HIST CORTESE	0.500	1	3	11	31	NR	NR	46
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	0	0	4	NR	4
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	2	NR	NR	NR	NR	NR	2
EMI	TP	1	NR	NR	NR	NR	NR	1
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	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	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		1	4	NR	NR	NR	5
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **MIKE ROBERTS COLOR PRODUCTIONS (MRCP)** **HIST CORTESE** **S100868891**
Target **6707 BAY ST** **SLIC** **N/A**
Property **EMERYVILLE, CA 94608** **Alameda County CS**
ENVIROSTOR

Site 1 of 8 in cluster A

Actual:
17 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0971

SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 07/01/1990
Global Id: T0600100894
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0000548
Latitude: 37.848438
Longitude: -122.2944
Case Type: Cleanup Program Site
Case Worker: MD
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-0971
File Location: Stored electronically as an E-file
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: From 1963 to 1979 the site was occupied by Dymo Industries, a lable tape and lable tape punch manufacturer. Dymo used and stored MIBK and MEK in six USTs at the site. From 1979 to 1989 Mike Roberts Color Production occupied the site and manufactured and printed color postcards and expanded to color printing, lithography, and off-set printing using inks, solvents cleaning compounds and color pigments. Beginning in 1990 Nady Systems occupied the site, largely using it as a warehouse. Six areas of environmental concern were identified and investigated at the site Up to 10 wells and 15 soil bores have been installed at the site. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000548
PE: 5502

Status: Preliminary Site Assessment Underway
Record Id: RO0000548
PE: 5502

Status: Pollution Characterization
Record Id: RO0000548
PE: 5502

Status: Remedial Action Underway

MIKE ROBERTS COLOR PRODUCTIONS (MRCP) (Continued) **S100868891**

Record Id: RO0000548
PE: 5502

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 01270025
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 10/10/2003
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.84812
Longitude: -122.2958
APN: 49-1490-2
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED, NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: NADY SYSTEMS
Alias Type: Alternate Name
Alias Name: 49-1490-2
Alias Type: APN
Alias Name: CAD009133190
Alias Type: EPA Identification Number
Alias Name: 01270025
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/13/1990
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

A2
Target Property
MIKE ROBERTS COLOR PRODUCTION,
6707 BAY STREET
EMERYVILLE, CA 94608

EMI **S106835629**
N/A

Site 2 of 8 in cluster A

Actual: 17 ft.

EMI:

Year:	1987
County Code:	1
Air Basin:	SF
Facility ID:	734
Air District Name:	BA
SIC Code:	2751
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

A3
Target Property
ESSELTE PENDAFLEX DYMO DIV
6701 BAY ST
EMERYVILLE, CA

RCRA-SQG **1000205477**
FINDS **CAD064155476**

Site 3 of 8 in cluster A

Actual: 17 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	ESSELTE PENDAFLEX DYMO DIV
Facility address:	6701 BAY ST EMERYVILLE, CA 94608
EPA ID:	CAD064155476
Mailing address:	6701 BAY STREET EMERYVILLE, CA 94608
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private

ESSELTE PENDAFLEX DYMO DIV (Continued) **1000205477**

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

Owner/operator name: ESSELTE PENDAFLEX CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Historical Generators:
Date form received by agency: 08/18/1980
Facility name: ESSELTE PENDAFLEX DYMO DIV
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002653904

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

A4 **NAVY SYSTEMS INC** **HAZNET** **S112850553**
Target **6707 BAY ST** **N/A**
Property **EMERYVILLE, CA 94608**

Site 4 of 8 in cluster A

Actual:
17 ft.

HAZNET:

Year:	1993
Gepaid:	CAC000891712
Contact:	JAMES MCCLAY
Telephone:	5106521500
Mailing Name:	Not reported
Mailing Address:	171 12TH ST
Mailing City,St,Zip:	OAKLAND, CA 946070000
Gen County:	Not reported
TSD EPA ID:	WAD009477175
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Recycler
Tons:	1.9575
Facility County:	1

A5 **MIKE ROBERTS COLOR PRODUCTIONS** **CERC-NFRAP** **1003879426**
Target **6707 BAY STREET** **CAD009133190**
Property **EMERYVILLE, CA 94608**

Site 5 of 8 in cluster A

Actual:
17 ft.

CERC-NFRAP:

Site ID:	0903556
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13052074.00000
Person ID:	9271184.00000
Contact Sequence ID:	13286157.00000
Person ID:	13003854.00000
Contact Sequence ID:	13291752.00000
Person ID:	13003858.00000
Contact Sequence ID:	13297610.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	MIKE ROBERTS COLOR REPRODUCTIONS
Alias Address:	Not reported
	CA

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	02/13/89
Priority Level:	Not reported

MIKE ROBERTS COLOR PRODUCTIONS (Continued) **1003879426**

Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	10/01/90
Priority Level:	Low priority for further assessment
Action:	SITE INSPECTION
Date Started:	/ /
Date Completed:	11/02/92
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	11/02/92
Priority Level:	Not reported

A6 **MIKE ROBERTS COLOR PROD INC** **LUST** **1000198450**
Target **6707 BAY ST** **N/A**
Property **EMERYVILLE, CA 94608**

Site 6 of 8 in cluster A

Actual:
17 ft.

LUST REG 2:

Region:	2
Facility Id:	01-0971
Facility Status:	Case Closed
Case Number:	414
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	3/9/1992
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	1/1/1990
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

A7 **UNKNOWN** **SPILLS 90** **S112437617**
Target **6707 BAY STREET** **N/A**
Property **EMERYVILLE, CA 94608**

Site 7 of 8 in cluster A

Actual:
17 ft.

A8 Target Property **MIKE ROBERTS COLOR PRODUCTION**
6701 & 6707 BAY ST
EMERYVILLE, CA 94608

HAZNET **S112843532**
N/A

Site 8 of 8 in cluster A

Actual: 17 ft.

HAZNET:

Year:	1996
Gepaid:	CAC000762832
Contact:	MIKE ROBERTS COLOR PRODUCTION
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 24122
Mailing City,St,Zip:	OAKLAND, CA 946230000
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues 10 percent or more
Disposal Method:	Recycler
Tons:	.2293
Facility County:	1

Year:	1996
Gepaid:	CAC000762832
Contact:	MIKE ROBERTS COLOR PRODUCTION
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 24122
Mailing City,St,Zip:	OAKLAND, CA 946230000
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Recycler
Tons:	3.2109
Facility County:	1

Year:	1996
Gepaid:	CAC000762832
Contact:	MIKE ROBERTS COLOR PRODUCTION
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 24122
Mailing City,St,Zip:	OAKLAND, CA 946230000
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Contaminated soil from site clean-up
Disposal Method:	Disposal, Land Fill
Tons:	1.5500
Facility County:	1

B9
ENE
< 1/8
0.067 mi.
354 ft.

Relative:
Higher

Actual:
20 ft.

COULTER STEEL & FORGE CO
1494 67TH ST
EMERYVILLE, CA 94608

Site 1 of 9 in cluster B

Database(s): RCRA-SQG, FINDS, NPDES, LUST, Alameda County CS, HIST UST, WDS

EDR ID Number: 1000292592
EPA ID Number: CAD009114265

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	COULTER STEEL & FORGE CO
Facility address:	1494 67TH ST EMERYVILLE, CA 94608
EPA ID:	CAD009114265
Mailing address:	P O BOX 8008 EMERYVILLE, CA 94662
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	COULTER STEEL & FORGE CO
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No

COULTER STEEL & FORGE CO (Continued) **1000292592**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/1986
Facility name: COULTER STEEL & FORGE CO
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 11/14/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110000770791

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit

COULTER STEEL & FORGE CO (Continued) **1000292592**

Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

NPDES:

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	2
Regulatory Measure Id:	181256
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 01I018324
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/05/2003
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Coulter Forge Tech Inc
Discharge Address:	PO Box 8008
Discharge City:	Emeryville
Discharge State:	California
Discharge Zip:	94608

LUST:

Region:	STATE
Global Id:	T0600101307
Latitude:	37.848674
Longitude:	-122.294387
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/16/1996
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1415
LOC Case Number:	RO0000596
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

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

Contact:

Global Id:	T0600101307
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

COULTER STEEL & FORGE CO (Continued) **1000292592**

Global Id: T0600101307
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600101307
Status: Completed - Case Closed
Status Date: 05/16/1996

Global Id: T0600101307
Status: Open - Case Begin Date
Status Date: 12/27/1991

Regulatory Activities:
Global Id: T0600101307
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600101307
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-1415
Facility Status: Case Closed
Case Number: 1385
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 12/19/1991
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000596
PE: 5602

HIST UST:
Region: STATE
Facility ID: 00000016601

COULTER STEEL & FORGE CO (Continued) **1000292592**

Facility Type: Other
Other Type: FORGING
Total Tanks: 0002
Contact Name: DANTE A SAMBAJON
Telephone: 4156532512
Owner Name: COULTER STEEL & FORGE CO.
Owner Address: 1494 67TH STREET
Owner City,St,Zip: EMERYVILLE, CA 94608

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: Not reported
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

CA WDS:
Facility ID: San Francisco Bay 01I018324
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5104203500
Facility Contact: Peter Bierwith
Agency Name: BIERWITH PETER
Agency Address: PO Box 8008
Agency City,St,Zip: Emeryville 946620901
Agency Contact: Joe Holmes
Agency Telephone: 5104203500
Agency Type: ?
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported

COULTER STEEL & FORGE CO (Continued) **1000292592**

POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

B10 **COULTER STEEL AND FORGE CO.** **HIST UST** **U001599556**
ENE **1494 67TH ST** **N/A**
< 1/8 **EMERYVILLE, CA 94662**
0.067 mi.
354 ft. **Site 2 of 9 in cluster B**

Relative:
Higher

Actual:
20 ft.

HIST UST:
Region: STATE
Facility ID: 00000063693
Facility Type: Other
Other Type: FORGING
Total Tanks: 0001
Contact Name: DANTE A. SAMBAJON
Telephone: 4156532512
Owner Name: COULTER STEEL AND FORGE CO.
Owner Address: 1494 67TH ST.
Owner City,St,Zip: EMERYVILLE, CA 94662

Tank Num: 001
Container Num: 3
Year Installed: 1973
Tank Capacity: 00001500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 10 gauge
Leak Detection: Visual

B11 **COULTER STEEL & FORGE CO.** **CA FID UST** **S101580018**
ENE **1494 67TH ST** **SWEEPS UST** **N/A**
< 1/8 **EMERYVILLE, CA 94662** **WDS**
0.067 mi.
354 ft. **Site 3 of 9 in cluster B**

Relative:
Higher

Actual:
20 ft.

CA FID UST:
Facility ID: 01000595
Regulated By: UTNKA
Regulated ID: 00016601
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154203500
Mail To: Not reported
Mailing Address: 1494 67TH PO BOX 8008 ST

COULTER STEEL & FORGE CO. (Continued) **S101580018**

Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94662
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: Not reported
Comp Number: 16601
Number: Not reported
Board Of Equalization: 44-000230
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-016601-000001
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 16601
Number: Not reported
Board Of Equalization: 44-000230
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-016601-000002
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

CA WDS:
Facility ID: San Francisco Bay 01I000573
Facility Type: Not reported
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: COULTER STEEL & FORGE CO.

COULTER STEEL & FORGE CO. (Continued) **S101580018**

Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

B12 **EDR US Hist Auto Stat** **1015234375**
East **1487 67TH ST** **N/A**
< 1/8 **EMERYVILLE, CA 94608**
0.069 mi.
363 ft. **Site 4 of 9 in cluster B**

Relative:
Higher

Actual:
20 ft.

EDR Historical Auto Stations:

Name:	ENGINE WORLD
Year:	2005
Address:	1487 67TH ST
Name:	ENGINEWORLD LLC
Year:	2006
Address:	1487 67TH ST
Name:	ENGINEWORLD LLC
Year:	2008
Address:	1487 67TH ST
Name:	ENGINEWORLD
Year:	2009
Address:	1487 67TH ST
Name:	ENGINEWORLD
Year:	2011
Address:	1487 67TH ST
Name:	ENGINEWORLD
Year:	2012
Address:	1487 67TH ST

B13 **PHARMEX LTD** **RCRA NonGen / NLR** **1000364929**
East **1499 67TH ST** **FINDS** **CAD981167422**
< 1/8 **EMERYVILLE, CA 94608**
0.071 mi.
377 ft. **Site 5 of 9 in cluster B**

Relative:
Higher

Actual:
20 ft.

RCRA NonGen / NLR:

Date form received by agency:	12/30/1985
Facility name:	PHARMEX LTD
Facility address:	1499 67TH ST EMERYVILLE, CA 94608
EPA ID:	CAD981167422
Mailing address:	P O BOX 3453 SAN FRANCISCO, CA 94119
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1499 67TH ST EMERYVILLE, CA 94608
Contact country:	US
Contact telephone:	(415) 621-4600
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	EUNICE FREEZER
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

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

PHARMEX LTD (Continued) **1000364929**

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

Violation Status: No violations found

FINDS:

Registry ID: 110002680331

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

B14 **CLEARPRINT PAPER CO** **LUST** **1000156038**
East **1482 67TH ST** **CA FID UST** **N/A**
< 1/8 **EMERYVILLE, CA 94608** **Alameda County CS**
0.074 mi. **HIST UST**
391 ft. **Site 6 of 9 in cluster B**

Relative:
Higher

Actual:
20 ft.

LUST:
Region: STATE
Global Id: T0600101915
Latitude: 37.8487139006739
Longitude: -122.293348610401
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/27/2005
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: RS
Local Agency: Not reported
RB Case Number: 01-2083
LOC Case Number: RO0000055
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

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

Contact:
Global Id: T0600101915
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600101915
Status: Completed - Case Closed

CLEARPRINT PAPER CO (Continued) **1000156038**

Status Date: 06/27/2005

Global Id: T0600101915
Status: Open - Case Begin Date
Status Date: 10/09/1994

Global Id: T0600101915
Status: Open - Site Assessment
Status Date: 10/11/1995

Regulatory Activities:
Global Id: T0600101915
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600101915
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-2083
Facility Status: Leak being confirmed
Case Number: 320
How Discovered: OM
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 6/27/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01001826
Regulated By: UTNKA
Regulated ID: 00019666
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4156524762
Mail To: Not reported
Mailing Address: 1482 67TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported

CLEARPRINT PAPER CO (Continued) **1000156038**

Status: Active

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000055
PE: 5602

Status: Case Closed
Record Id: RO0000055
PE: 5602

HIST UST:
Region: STATE
Facility ID: 00000019666
Facility Type: Other
Other Type: MANUFACTURING
Total Tanks: 0004
Contact Name: DUANE NORMAN
Telephone: 4156524762
Owner Name: JAMES W. DIETERICH, JR
Owner Address: 50 BOLLA AVENUE
Owner City,St,Zip: ALAMO, CA 94507

Tank Num: 001
Container Num: S1
Year Installed: 1950
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: None

Tank Num: 002
Container Num: R1
Year Installed: 1950
Tank Capacity: 00000900
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: .25 inches
Leak Detection: None

Tank Num: 003
Container Num: S2
Year Installed: 1979
Tank Capacity: 00009450
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 0000020 unknown
Leak Detection: Not reported

Tank Num: 004
Container Num: R2
Year Installed: 1979
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported

CLEARPRINT PAPER CO (Continued) **1000156038**

Tank Construction: 3/16 inches
Leak Detection: Not reported

B15
East
< 1/8
0.074 mi.
391 ft.

CLEARPRINT PAPER CO **HIST FTTS** **1008177551**
1482 67TH ST **SWEEPS UST** **N/A**
EMERYVILLE, CA 94608

Site 7 of 9 in cluster B

Relative:
Higher

Actual:
20 ft.

HIST FTTS INSP:
Inspection Number: 1988090901082 1
Region: 09
Inspection Date: Not reported
Inspector: CZAJKOWSKI
Violation occurred: No
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

SWEEPS UST:
Status: Active
Comp Number: 19666
Number: 1
Board Of Equalization: 44-000250
Referral Date: 01-28-92
Action Date: 01-28-92
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: S1
Swrcb Tank Id: 01-000-019666-000001
Actv Date: 01-28-92
Capacity: 8000
Tank Use: EMPTY
Stg: P
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 19666
Number: 1
Board Of Equalization: 44-000250
Referral Date: 01-28-92
Action Date: 01-28-92
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: R2
Swrcb Tank Id: 01-000-019666-000002
Actv Date: 01-28-92
Capacity: 10000
Tank Use: CHEMICAL
Stg: P
Content: MINERAL OIL
Number Of Tanks: Not reported

Status: Active

CLEARPRINT PAPER CO (Continued) **1008177551**

Comp Number:	19666
Number:	1
Board Of Equalization:	44-000250
Referral Date:	01-28-92
Action Date:	01-28-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	S2
Swrcb Tank Id:	01-000-019666-000003
Actv Date:	01-28-92
Capacity:	9450
Tank Use:	EMPTY
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	19666
Number:	1
Board Of Equalization:	44-000250
Referral Date:	01-28-92
Action Date:	01-28-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	R1
Swrcb Tank Id:	01-000-019666-000004
Actv Date:	01-28-92
Capacity:	1000
Tank Use:	CHEMICAL
Stg:	P
Content:	WATER/MINERA
Number Of Tanks:	Not reported

B16 **GIAMPOLINI** **RCRA-SQG** **1011488082**
East **1482 67TH ST** **HAZNET** **CAR000191981**
< 1/8 **EMERYVILLE, CA 94608**
0.074 mi.
391 ft. **Site 8 of 9 in cluster B**

Relative:
Higher

Actual:
20 ft.

RCRA-SQG:

Date form received by agency:	05/12/2008
Facility name:	GIAMPOLINI
Facility address:	1482 67TH ST EMERYVILLE, CA 94608
EPA ID:	CAR000191981
Contact:	SHAWN D WEST
Contact address:	1482 67TH ST EMERYVILLE, CA 94608
Contact country:	US
Contact telephone:	510-597-0350
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

GIAMPOLINI (Continued) **1011488082**

Owner/Operator Summary:
- Owner/operator name: GIAMPOLINI
- Owner/operator address: 1445 BUSH ST
  SAN FRANCISCO, CA 94109
- Owner/operator country: US
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 09/01/2005
- Owner/Op end date: Not reported

- Owner/operator name: GIAMPOLINI
- Owner/operator address: Not reported
  Not reported
- Owner/operator country: Not reported
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 09/01/2005
- Owner/Op end date: Not reported

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

Hazardous Waste Summary:
- Waste code: D001
- Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- Waste code: D002
- Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

GIAMPOLINI (Continued) **1011488082**

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Violation Status: No violations found

HAZNET:
Year: 2012
Gepaid: CAR000191981
Contact: SHAWN D WEST
Telephone: 5105970350
Mailing Name: Not reported
Mailing Address: 1482 67TH ST
Mailing City,St,Zip: EMERYVILLE, CA 946080000
Gen County: Alameda
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Not reported
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 25.54755
Facility County: Alameda

Year: 2012
Gepaid: CAR000191981
Contact: SHAWN D WEST
Telephone: 5105970350
Mailing Name: Not reported
Mailing Address: 1482 67TH ST
Mailing City,St,Zip: EMERYVILLE, CA 946080000
Gen County: Alameda
TSD EPA ID: IND000646943
TSD County: 99
Waste Category: Not reported
Disposal Method: Not reported
Tons: 12.11385
Facility County: Alameda

Year: 2012
Gepaid: CAR000191981
Contact: SHAWN D WEST
Telephone: 5105970350
Mailing Name: Not reported
Mailing Address: 1482 67TH ST
Mailing City,St,Zip: EMERYVILLE, CA 946080000
Gen County: Alameda
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0495
Facility County: Alameda

Year: 2012
Gepaid: CAR000191981

GIAMPOLINI (Continued) **1011488082**

Contact:	SHAWN D WEST
Telephone:	5105970350
Mailing Name:	Not reported
Mailing Address:	1482 67TH ST
Mailing City,St,Zip:	EMERYVILLE, CA 946080000
Gen County:	Alameda
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.209
Facility County:	Alameda

Year:	2012
Gepaid:	CAR000191981
Contact:	SHAWN D WEST
Telephone:	5105970350
Mailing Name:	Not reported
Mailing Address:	1482 67TH ST
Mailing City,St,Zip:	EMERYVILLE, CA 946080000
Gen County:	Alameda
TSD EPA ID:	CA0000084517
TSD County:	Sacramento
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0875
Facility County:	Alameda

Click this hyperlink while viewing on your computer to access
15 additional CA_HAZNET: record(s) in the EDR Site Report.

C17 **ABBOT, COLE & DEGRAF, INC.** **HIST CORTESE** **S101624407**
SSE **6603 BAY ST** **LUST** **N/A**
< 1/8 **EMERYVILLE, CA 94608** **CA FID UST**
0.085 mi. **Alameda County CS**
449 ft. **Site 1 of 3 in cluster C** **SWEEPS UST**

Relative: Higher

Actual: 17 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0516

LUST:

Region:	STATE
Global Id:	T0600100470
Latitude:	37.8474092242809
Longitude:	-122.295985221863
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	10/10/1989
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0516

ABBOT, COLE & DEGRAF, INC. (Continued) **S101624407**

LOC Case Number:	RO0000043
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Prior to the 1930s the site was in the San Francisco Bay; until the early 1950s the site was a part of the City of Emeryville municipal waste landfill. Three adjacent USTs were removed between August and October 1989 (one diesel in August, two gasoline USTs in October); black petroleum product is reported to have flowed from the south wall of the excavation adjacent to the diesel UST. An estimated 2,000 gallons of product was removed from the excavations. Limited overexcavation may have occurred between August 1989 and February 1990 when the excavations were backfilled; the records are unclear. Impacts to soil and groundwater have been characterized as oil and grease, extractable hydrocarbons (TPHd), purgeable hydrocarbons (TPHg), and BTEX. In January 1990 seven bores were installed (B-1 to B-7). Two offsite wells (adjacent property; MW-5 and MW-7; 50 to 75 feet distant) have been used since 1989 in an attempt to help define groundwater. The wells were sampled regularly between November 1989 and June 1997. In June 1996 six soil bores (SB-1 to SB-6) were installed. A soil and groundwater investigation work plan was approved in August 2009 and will initiate lateral delineation of soil and groundwater, a sensitive receptor survey, and a soil vapor survey. The site appears eligible for closure under the LTCP; however, free phase has migrated offsite and impacts groundwater. The site qualifies for closure under Class 3 of the Groundwater Media Specific Criteria; however, since free phase has migrated offsite and impacts groundwater a land use restriction would be required to be obtained from the adjacent property owner. Although the site fails the Media Specific Criteria for Indoor Air, concentrations of volatiles in groundwater and subslab samples do not exceed applicable RWQCB ESLs and therefore do not appear to present a significant risk to human health.

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

Contact:

Global Id:	T0600100470
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100470
Contact Type:	Local Agency Caseworker
Contact Name:	MARK DETTERMAN
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	mark.detterman@acgov.org
Phone Number:	5105676876

Status History:

Global Id:	T0600100470

ABBOT, COLE & DEGRAF, INC. (Continued) **S101624407**

Status: Open - Site Assessment
Status Date: 10/10/1989

Regulatory Activities:
Global Id: T0600100470
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100470
Action Type: RESPONSE
Date: 07/29/2011
Action: Soil and Water Investigation Workplan

Global Id: T0600100470
Action Type: ENFORCEMENT
Date: 04/01/2011
Action: Staff Letter

Global Id: T0600100470
Action Type: ENFORCEMENT
Date: 07/03/2008
Action: Technical Correspondence / Assistance / Other - #20080703

Global Id: T0600100470
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100470
Action Type: RESPONSE
Date: 11/28/2011
Action: Electronic Reporting Submittal Due

Global Id: T0600100470
Action Type: RESPONSE
Date: 02/10/2012
Action: Soil and Water Investigation Report

Global Id: T0600100470
Action Type: ENFORCEMENT
Date: 12/29/2008
Action: Technical Correspondence / Assistance / Other - #20081229

Global Id: T0600100470
Action Type: ENFORCEMENT
Date: 08/14/2009
Action: Staff Letter - #20090814

Global Id: T0600100470
Action Type: RESPONSE
Date: 05/17/2010
Action: Soil and Water Investigation Report - Regulator Responded

Global Id: T0600100470
Action Type: Other
Date: 01/01/1950

ABBOT, COLE & DEGRAF, INC. (Continued) **S101624407**

Action: Leak Reported

Global Id: T0600100470
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

Global Id: T0600100470
Action Type: ENFORCEMENT
Date: 11/01/2011
Action: Staff Letter - #20111101

LUST REG 2:
Region: 2
Facility Id: 01-0516
Facility Status: Preliminary site assessment underway
Case Number: 3710
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01000648
Regulated By: UTNKI
Regulated ID: 00049307
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4156520277
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000043
PE: 5602

SWEEPS UST:

ABBOT, COLE & DEGRAF, INC. (Continued) **S101624407**

Status: Not reported
Comp Number: 49307
Number: Not reported
Board Of Equalization: 44-000473
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-049307-000001
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 49307
Number: Not reported
Board Of Equalization: 44-000473
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-049307-000002
Actv Date: Not reported
Capacity: 7500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 49307
Number: Not reported
Board Of Equalization: 44-000473
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-049307-000003
Actv Date: Not reported
Capacity: 6000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

C18 **ABBOT, COLE & DEGRAF, INC.** **HIST UST** **U001599250**
SSE **6603 BAY STREET** **N/A**
< 1/8 **EMERYVILLE, CA 94608**
0.085 mi.
449 ft. **Site 2 of 3 in cluster C**

Relative:
Higher

Actual:
17 ft.

HIST UST:

Region:	STATE
Facility ID:	00000049307
Facility Type:	Other
Other Type:	RAW MATERIAL DISTRIB
Total Tanks:	0003
Contact Name:	RICHARD DEGRAF
Telephone:	4156520277
Owner Name:	ABBOT, COLE & DEGRAF PARTNER
Owner Address:	6603 BAY STREET
Owner City,St,Zip:	EMERYVILLE, CA 94608

Tank Num:	001
Container Num:	1
Year Installed:	1973
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor

Tank Num:	002
Container Num:	2
Year Installed:	1973
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	3
Year Installed:	1973
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor

B19 **METALCO** **ENVIROSTOR** **S110494058**
East **1475 - 67TH STREET** **N/A**
< 1/8 **EMERYVILLE, CA 94608**
0.086 mi.
453 ft. **Site 9 of 9 in cluster B**

Relative:
Higher

Actual:
22 ft.

ENVIROSTOR:

Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported

METALCO (Continued) **S110494058**

Division Branch: Cleanup Berkeley
Facility ID: 71003301
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Inactive - Needs Evaluation
Status Date: Not reported
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.84835
Longitude: -122.2929
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED, NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000100455
Alias Type: EPA Identification Number
Alias Name: 110002430218
Alias Type: EPA (FRS #)
Alias Name: 71003301
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/26/1997
Comments: Phase 1 checklist indicates no releases.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

C20 **MUSSALLEM / SYBASE** **HIST CORTESE** **S102432607**
SSE **6601 BAY ST** **LUST** **N/A**
< 1/8 **EMERYVILLE, CA 94608** **Alameda County CS**
0.086 mi.
456 ft. **Site 3 of 3 in cluster C**

Relative:
Higher

Actual:
17 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0896

LUST:
Region: STATE
Global Id: T0600100825
Latitude: 37.8473986342807

MUSSALLEM / SYBASE (Continued) **S102432607**

Longitude:	-122.295810878277
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	07/01/1990
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0896
LOC Case Number:	RO0000042
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Prior to the 1930s the site was in the San Francisco Bay; until the early 1950s the site was a part of the City of Emeryville municipal waste landfill. Three adjacent USTs were removed between August and October 1989 (one diesel in August, two gasoline USTs in October); black petroleum product is reported to have flowed from the south wall of the excavation adjacent to the diesel UST. An estimated 2,000 gallons of product was removed from the excavations. Limited overexcavation may have occurred between August 1989 and February 1990 when the excavations were backfilled; the records are unclear. Impacts to soil and groundwater have been characterized as oil and grease, extractable hydrocarbons (TPHd), purgeable hydrocarbons (TPHg), and BTEX. In January 1990 seven bores were installed (B-1 to B-7). Two offsite wells (adjacent property; MW-5 and MW-7; 50 to 75 feet distant) have been used since 1989 in an attempt to help define groundwater. The wells were sampled regularly between November 1989 and June 1997. In June 1996 six soil bores (SB-1 to SB-6) were installed. A soil and groundwater investigation work plan was approved in August 2009 and will initiate lateral delineation of soil and groundwater, a sensitive receptor survey, and a soil vapor survey. The site appears eligible for closure under the LTCP; however, free phase has migrated offsite and impacts groundwater. The site qualifies for closure under Class 3 of the Groundwater Media Specific Criteria; however, since free phase has migrated offsite and impacts groundwater a land use restriction would be required to be obtained from the adjacent property owner. Although the site fails the Media Specific Criteria for Indoor Air, concentrations of volatiles in groundwater and subslab samples do not exceed applicable RWQCB ESLs and therefore do not appear to present a significant risk to human health. ACEH has a meeting to discuss this with the adjacent property owner.

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

Contact:

Global Id:	T0600100825
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100825
Contact Type:	Local Agency Caseworker
Contact Name:	MARK DETTERMAN

MUSSALLEM / SYBASE (Continued) **S102432607**

Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: mark.detterman@acgov.org
Phone Number: 5105676876

Status History:
Global Id: T0600100825
Status: Open - Case Begin Date
Status Date: 08/23/1989

Global Id: T0600100825
Status: Open - Site Assessment
Status Date: 08/23/1989

Global Id: T0600100825
Status: Open - Site Assessment
Status Date: 08/30/1989

Global Id: T0600100825
Status: Open - Site Assessment
Status Date: 02/21/1990

Global Id: T0600100825
Status: Open - Site Assessment
Status Date: 07/01/1990

Regulatory Activities:
Global Id: T0600100825
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100825
Action Type: ENFORCEMENT
Date: 08/14/2009
Action: Staff Letter - #20090814

Global Id: T0600100825
Action Type: REMEDIATION
Date: 01/01/1950
Action: Not reported

Global Id: T0600100825
Action Type: ENFORCEMENT
Date: 11/01/2011
Action: Staff Letter - #20111101

Global Id: T0600100825
Action Type: ENFORCEMENT
Date: 07/03/2008
Action: Staff Letter - #20080703

Global Id: T0600100825
Action Type: Other
Date: 01/01/1950

MUSSALLEM / SYBASE (Continued) **S102432607**

Action: Leak Discovery

Global Id: T0600100825
Action Type: RESPONSE
Date: 02/10/2012
Action: Soil and Water Investigation Report

Global Id: T0600100825
Action Type: RESPONSE
Date: 11/28/2011
Action: Electronic Reporting Submittal Due

Global Id: T0600100825
Action Type: RESPONSE
Date: 07/29/2011
Action: Soil and Water Investigation Workplan

Global Id: T0600100825
Action Type: ENFORCEMENT
Date: 04/01/2011
Action: Staff Letter - #20110401

Global Id: T0600100825
Action Type: ENFORCEMENT
Date: 12/29/2008
Action: Staff Letter - #20081229

Global Id: T0600100825
Action Type: RESPONSE
Date: 05/17/2010
Action: Soil and Water Investigation Report - Regulator Responded

Global Id: T0600100825
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100825
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

LUST REG 2:
Region: 2
Facility Id: 01-0896
Facility Status: Preliminary site assessment underway
Case Number: 3696
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported

MUSSALLEM / SYBASE (Continued) **S102432607**

Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000042
PE: 5602

Status: Preliminary Site Assessment Workplan Submitted
Record Id: RO0000042
PE: 5602

Status: Preliminary Site Assessment Underway
Record Id: RO0000042
PE: 5602

Status: Pollution Characterization
Record Id: RO0000042
PE: 5602

D21 **DIESEL FUEL TANK AREA FORMER** **SLIC** **S106610981**
NE **722 FOLGER AVE** **N/A**
< 1/8 **EMERYVILLE, CA**
0.097 mi.
514 ft. **Site 1 of 3 in cluster D**

Relative:
Higher

Actual:
23 ft.

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/04/2009
Global Id: SLT2O06369
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.849411
Longitude: -122.293871
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: SLT2O06369
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

SLIC REG 2:
Region: 2
Facility ID: SLT2O06369
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported

DIESEL FUEL TANK AREA FORMER (Continued) **S106610981**

Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

D22 **DIESEL FUEL TANK AREA FORMER** **HIST CORTESE** **S101306312**
NE **722 FOLGER AVE** **LUST** **N/A**
< 1/8 **BERKELEY, CA 94617** **SLIC**
0.112 mi.
593 ft. **Site 2 of 3 in cluster D**

Relative:
Higher

Actual:
23 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0460

LUST REG 2:
Region: 2
Facility Id: 01-0460
Facility Status: Pollution Characterization
Case Number: 01-0460
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 5/15/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 9/2/1992
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/17/1996
Global Id: T0600191547
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.8494237
Longitude: -122.2938051
Case Type: Cleanup Program Site
Case Worker: UNA
Local Agency: Not reported
RB Case Number: 01S0489
File Location: Not reported
Potential Media Affected: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

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

D23 **DIESEL FUEL TANK AREA FORMER** **SLIC** **S106610980**
NE **722 FOLGER AVE** **N/A**
< 1/8 **BERKELEY, CA 94617**
0.112 mi.
593 ft. **Site 3 of 3 in cluster D**

Relative:
Higher

Actual:
23 ft.

SLIC REG 2:

Region:	2
Facility ID:	01S0489
Facility Status:	Case Closed
Date Closed:	12/17/1996
Local Case #:	Not reported
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

E24 **GRING PEST CONTROL SERVICE, IN** **HIST UST** **U001599662**
NE **741 FOLGER AVE** **N/A**
< 1/8 **BERKELEY, CA 94710**
0.124 mi.
656 ft. **Site 1 of 4 in cluster E**

Relative:
Higher

Actual:
24 ft.

HIST UST:

Region:	STATE
Facility ID:	00000067297
Facility Type:	Other
Other Type:	PEST CONTROL
Total Tanks:	0002
Contact Name:	ROBERT G. SCHWIERS
Telephone:	4158435110
Owner Name:	GRING PEST CONTROL SERVICE, IN
Owner Address:	741 FOLGER AVE.
Owner City,St,Zip:	BERKELEY, CA 94710
Tank Num:	001
Container Num:	2000
Year Installed:	1955
Tank Capacity:	00002000
Tank Used for:	WASTE
Type of Fuel:	1
Tank Construction:	Unkown inches
Leak Detection:	None
Tank Num:	002
Container Num:	500
Year Installed:	1955
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Tank Construction:	Not reported
Leak Detection:	None

25
ENE
1/8-1/4
0.126 mi.
666 ft.

ATLAS PACIFIC ENGRG CO INC DEL
1321-67TH ST AT HOLLIS ST
EMERYVILLE, CA

RCRA-SQG
FINDS

1000157674
CAD009130899

Relative:
Higher

Actual:
24 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	ATLAS PACIFIC ENGRG CO INC DEL
Facility address:	1321-67TH ST AT HOLLIS ST EMERYVILLE, CA 94608
EPA ID:	CAD009130899
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CORPORATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

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

ATLAS PACIFIC ENGRG CO INC DEL (Continued) **1000157674**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008260853

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

E26 **EDR US Hist Auto Stat** **1015625441**
NE **751 FOLGER AVE** **N/A**
1/8-1/4 **BERKELEY, CA 94710**
0.134 mi.
705 ft. **Site 2 of 4 in cluster E**

Relative:
Higher

Actual:
24 ft.

EDR Historical Auto Stations:

Name: AUTOMALL TIRE & ALIGN CENTER
Year: 1999
Address: 751 FOLGER AVE

Name: AUTOMALL TIRE & ALIGN CENTER
Year: 2000
Address: 751 FOLGER AVE

Name: TIRE & ALIGNMENT CENTER
Year: 2007
Address: 751 FOLGER AVE

Name: MORAN MOTORSPORT
Year: 2008
Address: 751 FOLGER AVE

Name: MORAN MOTORSPORT
Year: 2009
Address: 751 FOLGER AVE

F27 **AST** **A100340819**
NE **735 ASHBY AVE** **N/A**
1/8-1/4 **BERKELEY, CA**
0.135 mi.
712 ft. **Site 1 of 3 in cluster F**

Relative: AST:
Higher Owner: WEATHERFORD BMW
Total Gallons: 1,320
Actual: Certified Unified Program Agencies: Berkeley
23 ft.

F28 **WEATHERFORD BMW/NISSHO IRWAI** **HIST CORTESE** **S101306293**
NE **735 ASHBY AVE** **LUST** **N/A**
1/8-1/4 **BERKELEY, CA 94710** **SWEEPS UST**
0.135 mi.
712 ft. **Site 2 of 3 in cluster F**

Relative: CORTESE:
Higher Region: CORTESE
Facility County Code: 1
Actual: Reg By: LTNKA
23 ft. Reg Id: 01-1803

LUST:
Region: STATE
Global Id: T0600101671
Latitude: 37.8505
Longitude: -122.2916
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 07/14/1993
Lead Agency: SWRCB
Case Worker: MC
Local Agency: BERKELEY, CITY OF
RB Case Number: 01-1803
LOC Case Number: TT01-1803
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

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

Contact:
Global Id: T0600101671
Contact Type: Local Agency Caseworker
Contact Name: GEOFFERY FIEDLER
Organization Name: BERKELEY, CITY OF
Address: 2118 MILVIA STREET 3RD FLOOR
City: BERKELEY
Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Global Id: T0600101671
Contact Type: Regional Board Caseworker
Contact Name: MATTHEW COHEN
Organization Name: SWRCB
Address: 1001 I Street
City: SACRAMENTO
Email: mcohen@waterboards.ca.gov

WEATHERFORD BMW/NISSHO IRWAI (Continued) **S101306293**

Phone Number: 9163415751

Status History:
Global Id: T0600101671
Status: Open - Case Begin Date
Status Date: 07/14/1993

Global Id: T0600101671
Status: Open - Site Assessment
Status Date: 07/14/1993

Regulatory Activities:
Global Id: T0600101671
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101671
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101671
Action Type: ENFORCEMENT
Date: 06/12/2013
Action: Notice of Public Hearing / Board Action

Global Id: T0600101671
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1803
Facility Status: Pollution Characterization
Case Number: 01-1803
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 7/14/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 7/14/1993
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 68859
Number: Not reported
Board Of Equalization: Not reported

WEATHERFORD BMW/NISSHO IRWAI (Continued) **S101306293**

Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-020-068859-000001
Actv Date:	Not reported
Capacity:	1000
Tank Use:	EMPTY
Stg:	PRODUCT
Content:	Not reported
Number Of Tanks:	2

Status:	Not reported
Comp Number:	68859
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-020-068859-000002
Actv Date:	Not reported
Capacity:	1000
Tank Use:	EMPTY
Stg:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

F29 **WEATHERFORD B M W** **RCRA-SQG 1000409181**
NE **735 ASHBY AVE** **FINDS CAD981658503**
1/8-1/4 **BERKELEY, CA**
0.135 mi.
712 ft. **Site 3 of 3 in cluster F**

Relative:
Higher

Actual:
23 ft.

RCRA-SQG:

Date form received by agency:	02/08/1990
Facility name:	WEATHERFORD B M W
Facility address:	735 ASHBY AVE BERKELEY, CA 94710
EPA ID:	CAD981658503
Contact:	JAMES SCHEINER
Contact address:	735 ASHBY AVE BERKELEY, CA 94710
Contact country:	US
Contact telephone:	(510) 654-8280
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

WEATHERFORD B M W (Continued) **1000409181**

Owner/operator name: N I MOTORS USA INC
Owner/operator address: 120 MONTGOMERY SST
SAN FRANCISCO, CA 94104
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Violation Status: No violations found

FINDS:

Registry ID: 110002740464

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

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

E30 **AST** **A100340820**
NE **746 FOLGER AVE** **N/A**
1/8-1/4 **BERKELEY, CA**
0.142 mi.
748 ft. **Site 3 of 4 in cluster E**

Relative:
Higher

Actual:
24 ft.

AST:

Owner:	HOWLETT MACHINE WORKS
Total Gallons:	1,320
Certified Unified Program Agencies:	Berkeley

E31 **HOLETT MACHINE WORKS** **LUST** **S105084570**
NE **746 FOLGER AVENUE** **N/A**
1/8-1/4 **BERKELEY, CA 94710**
0.142 mi.
748 ft. **Site 4 of 4 in cluster E**

Relative:
Higher

Actual:
24 ft.

LUST:

Region:	STATE
Global Id:	T0600113959
Latitude:	37.849298
Longitude:	-122.293136
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/25/2005
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	Not reported
LOC Case Number:	Folger746
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

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

Contact:

Global Id:	T0600113959
Contact Type:	Local Agency Caseworker
Contact Name:	GEOFFERY FIEDLER
Organization Name:	BERKELEY, CITY OF
Address:	2118 MILVIA STREET 3RD FLOOR
City:	BERKELEY
Email:	gfiedler@ci.berkeley.ca.us
Phone Number:	Not reported

Global Id:	T0600113959
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0600113959
Status:	Completed - Case Closed
Status Date:	03/25/2005

HOLETT MACHINE WORKS (Continued) **S105084570**

Global Id: T0600113959
Status: Open - Case Begin Date
Status Date: 04/01/2000

Global Id: T0600113959
Status: Open - Site Assessment
Status Date: 09/01/2003

Global Id: T0600113959
Status: Open - Verification Monitoring
Status Date: 03/03/2004

Regulatory Activities:
Global Id: T0600113959
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600113959
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600113959
Action Type: ENFORCEMENT
Date: 03/25/2005
Action: Closure/No Further Action Letter

Global Id: T0600113959
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0600113959
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

32
WSW
1/8-1/4
0.143 mi.
755 ft.

EMERYVILLE ASHBY (POINT EMERY) **SWF/LF** **S102359675**
W END OF ASHBY AVE **N/A**
EMERYVILLE, CA

Relative:
Higher

Actual:
19 ft.

SWF/LF (SWIS):
Region: STATE
Facility ID: 01-CR-0002
Lat/Long: 37.8459999 / -122.301
Owner Name: City Of Emeryville
Owner Telephone: 5105963728
Owner Address: Public Works Department
Owner Address2: 1333 Park Avenue
Owner City,St,Zip: Emeryville, CA 94608
Operational Status: Closed
Operator: Not reported
Operator Phone: Not reported

EMERYVILLE ASHBY (POINT EMERY) (Continued) **S102359675**

Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	0
Activity:	Solid Waste Disposal Site
Regulation Status:	Pre-regulations
Landuse Name:	Not reported
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	0
SWIS Num:	01-CR-0002
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	0
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	0
Remaining Capacity:	0
Remaining Capacity with Units:	Not reported
EDR Link ID:	01-CR-0002

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33 **EMERY BAY PLAZA** **HIST CORTESE** **S103066299**
South **1650 65TH ST** **LUST** **N/A**
1/8-1/4 **EMERYVILLE, CA 94608** **Alameda County CS**
0.145 mi.
765 ft.

Relative:
Lower

Actual:
15 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0558

LUST:

Region:	STATE
Global Id:	T0600100511
Latitude:	37.8465620194562
Longitude:	-122.295749187469
Case Type:	LUST Cleanup Site
Status:	Open - Assessment & Interim Remedial Action
Status Date:	07/07/2009
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0558
LOC Case Number:	RO0000440
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	In April 1987 at least one soil bore was installed to investigate the status of an UST at the site; hydrocarbons were encountered in soil.

EMERY BAY PLAZA (Continued) **S103066299**

In July 1987 a 2,000-gallon UST was removed from the site, and well MW-1 was installed. In 1988, well MW-1 was abandoned by unknown means and 60 cubic yards of soil was excavated from the former UST location. In September to November 1989 wells MW-2 to MW-5 were installed. Wells EW-1, MW-6, and MW-7 were installed in March 1990. A pump and treat system with GAC was installed in December 1990 and operated until October 1993. In August 1994 nutrient introduction was begun as the start of an in-situ bioremediation pilot test. In September 1994 well MW-8 was installed. In December 1994 an in-situ bioremediation pilot program was initiated using hydrogen peroxide (into wells EW-1, MW-2, and MW-8). In-situ bioremediation continued until December 1998. The last groundwater sampling event occurred in October 2000.

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

Contact:

Global Id:	T0600100511
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100511
Contact Type:	Local Agency Caseworker
Contact Name:	MARK DETTERMAN
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	mark.detterman@acgov.org
Phone Number:	5105676876

Status History:

Global Id:	T0600100511
Status:	Open - Assessment & Interim Remedial Action
Status Date:	03/17/1988

Global Id:	T0600100511
Status:	Open - Assessment & Interim Remedial Action
Status Date:	08/01/1994

Global Id:	T0600100511
Status:	Open - Assessment & Interim Remedial Action
Status Date:	07/07/2009

Global Id:	T0600100511
Status:	Open - Case Begin Date
Status Date:	04/27/1987

Global Id:	T0600100511
Status:	Open - Remediation
Status Date:	12/01/1990

Global Id:	T0600100511

EMERY BAY PLAZA (Continued) **S103066299**

Status: Open - Site Assessment
Status Date: 09/18/1987

Global Id: T0600100511
Status: Open - Verification Monitoring
Status Date: 12/01/1998

Regulatory Activities:
Global Id: T0600100511
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 02/21/2012
Action: Staff Letter - #20120221

Global Id: T0600100511
Action Type: RESPONSE
Date: 10/25/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0600100511
Action Type: RESPONSE
Date: 02/03/2012
Action: Soil and Water Investigation Workplan - Addendum

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 01/06/2012
Action: Staff Letter - #20120106

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 11/01/2011
Action: Staff Letter - #20111101

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 07/07/2009
Action: Staff Letter - #20090707

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 07/03/2008
Action: Staff Letter - #20080703

Global Id: T0600100511
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

EMERY BAY PLAZA (Continued) **S103066299**

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 11/07/1994
Action: Staff Letter - #19941107

Global Id: T0600100511
Action Type: RESPONSE
Date: 11/18/2011
Action: Soil and Water Investigation Workplan - Addendum

Global Id: T0600100511
Action Type: RESPONSE
Date: 12/05/2011
Action: Soil and Water Investigation Workplan

Global Id: T0600100511
Action Type: RESPONSE
Date: 05/28/2012
Action: Soil and Water Investigation Report

Global Id: T0600100511
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0600100511
Action Type: RESPONSE
Date: 04/27/2001
Action: Monitoring Report - Other

Global Id: T0600100511
Action Type: RESPONSE
Date: 10/24/1989
Action: Monitoring Report - Quarterly

Global Id: T0600100511
Action Type: RESPONSE
Date: 12/31/1997
Action: CAP/RAP - Feasibility Study Report

Global Id: T0600100511
Action Type: RESPONSE
Date: 12/31/1992
Action: Monitoring Report - Quarterly

Global Id: T0600100511
Action Type: RESPONSE
Date: 12/29/1995
Action: Monitoring Report - Quarterly

Global Id: T0600100511
Action Type: RESPONSE
Date: 01/16/1995
Action: Soil and Water Investigation Report

Global Id: T0600100511
Action Type: RESPONSE

EMERY BAY PLAZA (Continued) **S103066299**

Date: 05/06/1997
Action: Correspondence

Global Id: T0600100511
Action Type: RESPONSE
Date: 05/22/2013
Action: Request for Closure - Regulator Responded

Global Id: T0600100511
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100511
Action Type: RESPONSE
Date: 04/29/1987
Action: Tank Removal Report / UST Sampling Report

Global Id: T0600100511
Action Type: RESPONSE
Date: 11/01/1989
Action: Soil and Water Investigation Report

Global Id: T0600100511
Action Type: RESPONSE
Date: 06/15/1989
Action: Interim Remedial Action Plan

Global Id: T0600100511
Action Type: RESPONSE
Date: 04/06/1988
Action: Interim Remedial Action Report

Global Id: T0600100511
Action Type: RESPONSE
Date: 12/21/1993
Action: CAP/RAP - Feasibility Study Report

Global Id: T0600100511
Action Type: RESPONSE
Date: 03/16/1994
Action: CAP/RAP - Other Report

Global Id: T0600100511
Action Type: RESPONSE
Date: 06/30/1998
Action: Monitoring Report - Quarterly

Global Id: T0600100511
Action Type: RESPONSE
Date: 09/28/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Notice of Violation - #20090724

EMERY BAY PLAZA (Continued) **S103066299**

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 04/01/2011
Action: Staff Letter - #20110401

Global Id: T0600100511
Action Type: ENFORCEMENT
Date: 08/16/2010
Action: Staff Letter

Global Id: T0600100511
Action Type: RESPONSE
Date: 08/24/2009
Action: Electronic Reporting Submittal Due

Global Id: T0600100511
Action Type: RESPONSE
Date: 07/29/2011
Action: Soil and Water Investigation Workplan

Global Id: T0600100511
Action Type: RESPONSE
Date: 10/25/2010
Action: Sensitive Receptor Survey Report

LUST REG 2:
Region: 2
Facility Id: 01-0558
Facility Status: Remediation Plan
Case Number: 4352
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 2/27/1987
Pollution Characterization Began: 3/27/1990
Pollution Remediation Plan Submitted: 8/24/1990
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000440
PE: 5602

G34 **NAVAL INDUSTRIAL RESERVE PLANT BERKELEY** **FUDS** **1008196518**
NNE **N/A**
1/8-1/4 **BERKELEY, CA**
0.146 mi.
772 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
23 ft.

FUDS:

Federal Facility ID:	CA9799F5271
FUDS #:	J09CA0063
INST ID:	57694
Facility Name:	NAVAL INDUSTRIAL RESERVE PLANT BERKELEY
City:	BERKELEY
State:	CA
EPA Region:	09
County:	ALAMEDA
Congressional District:	09
US Army District:	Sacramento District (SPK)
Fiscal Year:	2011
Telephone:	916-557-7461
NPL Status:	Not Listed
RAB:	Not reported
CTC:	123.5
Current Owner:	PRIVATE
Current Prog:	Not reported
Future Prog:	Not reported
Description:	The 2.94-acre site is located at 735 Ashby Avenue in the City of Berkeley, Alameda County, CA. In 1965, Mr. Phelps Dodge of Airco, Inc. installed a high temperature furnace and several transformers on the property. In the 1960s, three underground storage tanks (USTs) were removed and three aboveground storage tanks (ASTs) were removed between 1977 and 1988. In removing the ASTs, the property owner discovered contaminated soil, which he believes was contaminated from adjacent inactive pipelines as the ASTs were not leaking. The property owner stockpiled the contaminated soil for Department of Defense (DoD) removal. There have been allegations of illegal dumping of Polychlorinatedbiphenyls (PCBs) from transformers at the site by Barker Machinery. Two 2,000-gallon USTs were installed in 1985, one for motor oil and one for waste oil. The current owners are Timothy and Susan Southwick, who purchased the site in May 1987 for use as a car dealership. On 9 February 1942, the U.S. acquired 2.46 fee acres by Declaration of Taking. Another 0.48 acre was acquired but records do not indicate when how, or where. Total acreage was 2.94. The Navy used the site as a steel forger facility and installed two USTs during occupation. On 18 June 1963, 2.94 fee acres were quitclaimed to Lerner Invest Co, subject to right-of-way and easement restrictions. There are no recapture rights. Mr. Phelps Dodge of Airco, Inc. acquired the site in 1965. Barker Machinery purchased the property in January 1978 for wholesaling large machinery. The current owners are Timothy and Susan Southwick, who purchased the site in May 1987. The underground storage tanks left by the DoD have not been beneficially used. Known releases of hazardous waste occurred at the site and impacted soil quality but have since been remediated. Currently, there are no further potential hazards identified at this location.

G35 **NIRP BERKELEY** **ENVIROSTOR** **S107736904**
NNE **N/A**
1/8-1/4 **BERKELEY, CA**
0.147 mi.
774 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
23 ft.

ENVIROSTOR:

Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Charles Ridenour
Division Branch:	Cleanup Sacramento
Facility ID:	80000154
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	DERA
Latitude:	37.85027
Longitude:	-122.2947
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED, NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	American Forge and Foundry
Alias Type:	Alternate Name
Alias Name:	CA99799F527100
Alias Type:	Federal Facility ID
Alias Name:	J09CA0063
Alias Type:	INPR
Alias Name:	80000154
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

36
SSW
1/8-1/4
0.151 mi.
799 ft.

BAY CENTER PROJECT
1665 65TH
EMERYVILLE, CA

HIST CORTESE

S100354725
N/A

Relative:
Lower

Actual:
14 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0157

37
NE
1/8-1/4
0.163 mi.
860 ft.

GRING PEST CONTROL SERVICE, IN
741 FOLGER AVE
BERKELEY, CA 94710

HIST CORTESE
LUST
CA FID UST
SWEEPS UST

S101624609
N/A

Relative:
Higher

Actual:
24 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0724

LUST:
Region: STATE
Global Id: T0600100668
Latitude: 37.84979
Longitude: -122.293339
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/23/2003
Lead Agency: BERKELEY, CITY OF
Case Worker: GAF
Local Agency: BERKELEY, CITY OF
RB Case Number: 01-0724
LOC Case Number: 01-0724
File Location: Local Agency
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: T0600100668
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600100668
Contact Type: Local Agency Caseworker
Contact Name: GEOFFERY FIEDLER
Organization Name: BERKELEY, CITY OF
Address: 2118 MILVIA STREET 3RD FLOOR
City: BERKELEY

GRING PEST CONTROL SERVICE, IN (Continued) **S101624609**

Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Status History:
Global Id: T0600100668
Status: Completed - Case Closed
Status Date: 04/23/2003

Global Id: T0600100668
Status: Open - Case Begin Date
Status Date: 02/23/1987

Global Id: T0600100668
Status: Open - Site Assessment
Status Date: 01/24/1996

Global Id: T0600100668
Status: Open - Verification Monitoring
Status Date: 04/01/2001

Regulatory Activities:
Global Id: T0600100668
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100668
Action Type: ENFORCEMENT
Date: 04/23/2003
Action: Closure/No Further Action Letter

Global Id: T0600100668
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100668
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-0724
Facility Status: Case Closed
Case Number: 01-0724
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 1/24/1996
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported

GRING PEST CONTROL SERVICE, IN (Continued) **S101624609**

Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 4/1/2001

CA FID UST:
Facility ID: 01000850
Regulated By: UTNKA
Regulated ID: 00067297
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158435110
Mail To: Not reported
Mailing Address: 741 FOLGER AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: BERKELEY 94710
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: Not reported
Comp Number: 67297
Number: Not reported
Board Of Equalization: 44-001555
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-067297-000001
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 67297
Number: Not reported
Board Of Equalization: 44-001555
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-067297-000002
Actv Date: Not reported
Capacity: 500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

H38
NNE
1/8-1/4
0.186 mi.
981 ft.

BAY EXPORT SERVICES
717 POTTER ST
BERKELEY, CA 94710

Site 1 of 6 in cluster H

HIST UST **U001599643**
N/A

Relative:
Higher

Actual:
24 ft.

HIST UST:

Region:	STATE
Facility ID:	00000067388
Facility Type:	Other
Other Type:	EXPORTS
Total Tanks:	0002
Contact Name:	ALAN NEYS
Telephone:	4155491234
Owner Name:	BAY EXPORT SERVICES
Owner Address:	717 POTTER STREET
Owner City,St,Zip:	BERKELEY, CA 94710
Tank Num:	001
Container Num:	002
Year Installed:	1982
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	4
Tank Construction:	Unkown inches
Leak Detection:	Visual
Tank Num:	002
Container Num:	0000000001
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	Not reported
Leak Detection:	Visual

H39
NNE
1/8-1/4
0.186 mi.
981 ft.

LBNL BLDG 977 POTTER STREET
717 POTTER STREET
BERKELEY, CA 94710

Site 2 of 6 in cluster H

RCRA-SQG **1008372012**
CAR000161679

Relative:
Higher

Actual:
24 ft.

RCRA-SQG:

Date form received by agency:	03/29/2005
Facility name:	LBNL BLDG 977 POTTER STREET
Facility address:	717 POTTER STREET BLDG 977 BERKELEY, CA 94710 2722
EPA ID:	CAR000161679
Mailing address:	1 CYCLOTRON RD MS85B0198 BERKELEY, CA 94720 8272
Contact:	NANCY E ROTHERMICH
Contact address:	1 CYCLOTRON RD MS85B0198 BERKELEY, CA 94720 8272
Contact country:	US
Contact telephone:	510-486-4644
Contact email:	NEROTHERMICH@LBL.GOV
EPA Region:	09
Classification:	Small Small Quantity Generator

LBNL BLDG 977 POTTER STREET (Continued) **1008372012**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	FIFTH AND POTTER STREET LLC
Owner/operator address:	1120 NYE STREET SUITE 400 SAN RAFAEL, CA 94901
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/25/1996
Owner/Op end date:	Not reported

Owner/operator name:	UNIVERSITY OF CALIFORNIA
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	04/01/2005
Owner/Op end date:	Not reported

Handler Activities Summary:

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

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

LBNL BLDG 977 POTTER STREET (Continued) **1008372012**

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D010
Waste name: SELENIUM

Waste code: D011
Waste name: SILVER

Waste code: D022
Waste name: CHLOROFORM

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

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS

LBNL BLDG 977 POTTER STREET (Continued) **1008372012**

CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U003
Waste name: ACETONITRILE (I,T)

Waste code: U044
Waste name: CHLOROFORM

Waste code: U154
Waste name: METHANOL (I)

Violation Status: No violations found

H40 **BAY EXPORT SERVICES** **LUST S101624597**
NNE **717 POTTER ST** **CA FID UST N/A**
1/8-1/4 **BERKELEY, CA 94710** **SWEEPS UST**
0.186 mi.
981 ft. **Site 3 of 6 in cluster H**

Relative:
Higher

Actual:
24 ft.

LUST REG 2:
Region: 2
Facility Id: 01-0162
Facility Status: Post remedial action monitoring
Case Number: 01-0162
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 3/22/1988
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 8/20/2002

CA FID UST:
Facility ID: 01000280
Regulated By: UTNKI
Regulated ID: 00067388
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4155491234
Mail To: Not reported
Mailing Address: 717 POTTER ST
Mailing Address 2: Not reported
Mailing City,St,Zip: BERKELEY 94710
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

BAY EXPORT SERVICES (Continued) **S101624597**

SWEEPS UST:

Status:	Not reported
Comp Number:	67388
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-020-067388-000001
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	DIESEL
Number Of Tanks:	2

Status:	Not reported
Comp Number:	67388
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-020-067388-000002
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

H41 **BAYER CORP APC LAB** **RCRA-SQG 1001085666**
NNE **717 POTTER ST** **FINDS CAR000009894**
1/8-1/4 **BERKELEY, CA 94710**
0.186 mi.
981 ft. **Site 4 of 6 in cluster H**

Relative:
Higher

Actual:
24 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	BAYER CORP APC LAB
Facility address:	717 POTTER ST BERKELEY, CA 94710
EPA ID:	CAR000009894
Mailing address:	PO BOX 1986 BERKELEY, CA 94701
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator

BAYER CORP APC LAB (Continued) **1001085666**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	WAREHAM PROPERTY GROUP
Owner/operator address:	1120 WYE ST STE 400 SAN RAFAEL, CA 94901
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 457-4964
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

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

Violation Status: No violations found

FINDS:

Registry ID: 110002910556

Environmental Interest/Information System

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

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

H42 **BAY EXPORT SERVICES** **HIST CORTESE** **S104581476**
NNE **717 POTTER** **LUST** **N/A**
1/8-1/4 **BERKELEY, CA**
0.186 mi.
981 ft. **Site 5 of 6 in cluster H**

Relative:
Higher

Actual:
24 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0162

LUST:

Region:	STATE
Global Id:	T0600100150
Latitude:	37.85145
Longitude:	-122.294537
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/23/2003
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-0162
LOC Case Number:	01-0162
File Location:	Local Agency
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:	T0600100150
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100150
Contact Type:	Local Agency Caseworker
Contact Name:	GEOFFERY FIEDLER
Organization Name:	BERKELEY, CITY OF
Address:	2118 MILVIA STREET 3RD FLOOR
City:	BERKELEY
Email:	gfiedler@ci.berkeley.ca.us
Phone Number:	Not reported

Status History:

Global Id:	T0600100150
Status:	Completed - Case Closed
Status Date:	05/23/2003

Global Id:	T0600100150
Status:	Open - Case Begin Date
Status Date:	03/22/1988

BAY EXPORT SERVICES (Continued) **S104581476**

Global Id: T0600100150
Status: Open - Site Assessment
Status Date: 03/22/1988

Global Id: T0600100150
Status: Open - Verification Monitoring
Status Date: 08/20/2002

Regulatory Activities:

Global Id: T0600100150
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100150
Action Type: ENFORCEMENT
Date: 04/30/1993
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100150
Action Type: ENFORCEMENT
Date: 07/27/1988
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100150
Action Type: ENFORCEMENT
Date: 04/25/1988
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100150
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100150
Action Type: ENFORCEMENT
Date: 03/22/1988
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100150
Action Type: ENFORCEMENT
Date: 11/02/1993
Action: Technical Correspondence / Assistance / Other

Global Id: T0600100150
Action Type: ENFORCEMENT
Date: 05/23/2003
Action: Closure/No Further Action Letter

Global Id: T0600100150
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100150
Action Type: REMEDIATION
Date: 01/01/1950

BAY EXPORT SERVICES (Continued) **S104581476**

Action: Monitored Natural Attenuation

43
SSE
1/8-1/4
0.191 mi.
1008 ft.

REDEVELOPMENT AGENCY TRANSOL LANCOSLE **SLIC** **S101641313**
6401 BAY ST **N/A**
EMERYVILLE, CA

Relative:
Lower

Actual:
16 ft.

SLIC REG 2:

Region:	2
Facility ID:	SLT2O05763
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

H44
NNE
1/8-1/4
0.194 mi.
1026 ft.

SIEMENS HEALTHCARE DIAGNOSTICS INC **RCRA-SQG** **1010313990**
725 POTTER ST **HAZNET** **CAR000180687**
BERKELEY, CA 94710
Site 6 of 6 in cluster H

Relative:
Higher

Actual:
25 ft.

RCRA-SQG:

Date form received by agency:	06/02/2008
Facility name:	SIEMENS HEALTHCARE DIAGNOSTICS INC
Facility address:	725 POTTER ST BERKELEY, CA 94710
EPA ID:	CAR000180687
Mailing address:	PO BOX 2466 BERKELEY, CA 94702
Contact:	RICHARD E RUSCH
Contact address:	PO BOX 2466 BERKELEY, CA 94702
Contact country:	US
Contact telephone:	510-982-4101
Contact email:	RICHARD.RUSCH@SIEMENS.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	SIEMENS HEALTHCARE DIAGNOSTICS INC

SIEMENS HEALTHCARE DIAGNOSTICS INC (Continued) **1010313990**

Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2007
Owner/Op end date: Not reported

Owner/operator name: FIFTH AND POTTER ASSOC LLC
Owner/operator address: 1120 NYE ST STE 400
SAN RAFAEL, CA 94901
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/01/1997
Owner/Op end date: Not reported

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

Historical Generators:
Date form received by agency: 12/27/2006
Facility name: SIEMENS HEALTHCARE DIAGNOSTICS INC
Site name: SIEMENS MEDICAL SOLUTIONS DIAGNOSTICS
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D018
Waste name: BENZENE

Waste code: D022

SIEMENS HEALTHCARE DIAGNOSTICS INC (Continued) **1010313990**

Waste name: CHLOROFORM

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

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

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F022
Waste name: WASTES (EXCEPT WASTEWATER AND SPENT CARBON FROM HYDROGEN CHLORIDE PURIFICATION) FROM THE MANUFACTURING USE (AS A REACTANT, CHEMICAL INTERMEDIATE, OR COMPONENT IN A FORMULATING PROCESS) OF TETRA-, PENTA-, OR HEXACHLOROBENZENES UNDER ALKALINE CONDITIONS.

Waste code: U002
Waste name: ACETONE (I)

Waste code: U003
Waste name: ACETONITRILE (I,T)

Waste code: U007
Waste name: ACRYLAMIDE

Waste code: U044
Waste name: CHLOROFORM

Waste code: U080
Waste name: METHANE, DICHLORO-

Waste code: U122
Waste name: FORMALDEHYDE

SIEMENS HEALTHCARE DIAGNOSTICS INC (Continued) **1010313990**

Waste code: U154
Waste name: METHANOL (I)

Waste code: U188
Waste name: PHENOL

Waste code: U220
Waste name: BENZENE, METHYL-

Waste code: U246
Waste name: CYANOGEN BROMIDE (CN)BR

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Violation Status: No violations found

HAZNET:
Year: 2012
Gepaid: CAR000180687
Contact: RICHARD E RUSCH
Telephone: 5109824101
Mailing Name: Not reported
Mailing Address: PO BOX 2466
Mailing City,St,Zip: BERKELEY, CA 947020000
Gen County: Alameda
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Not reported
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.6015
Facility County: Alameda

Year: 2012
Gepaid: CAR000180687
Contact: RICHARD E RUSCH
Telephone: 5109824101
Mailing Name: Not reported
Mailing Address: PO BOX 2466
Mailing City,St,Zip: BERKELEY, CA 947020000

SIEMENS HEALTHCARE DIAGNOSTICS INC (Continued) **1010313990**

Gen County: Alameda
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Not reported
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.0735
Facility County: Alameda

Year: 2012
Gepaid: CAR000180687
Contact: RICHARD E RUSCH
Telephone: 5109824101
Mailing Name: Not reported
Mailing Address: PO BOX 2466
Mailing City,St,Zip: BERKELEY, CA 947020000
Gen County: Alameda
TSD EPA ID: UTD981552177
TSD County: 99
Waste Category: Not reported
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.0735
Facility County: Alameda

Year: 2012
Gepaid: CAR000180687
Contact: RICHARD E RUSCH
Telephone: 5109824101
Mailing Name: Not reported
Mailing Address: PO BOX 2466
Mailing City,St,Zip: BERKELEY, CA 947020000
Gen County: Alameda
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.002
Facility County: Alameda

Year: 2012
Gepaid: CAR000180687
Contact: RICHARD E RUSCH
Telephone: 5109824101
Mailing Name: Not reported
Mailing Address: PO BOX 2466
Mailing City,St,Zip: BERKELEY, CA 947020000
Gen County: Alameda
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.002
Facility County: Alameda

SIEMENS HEALTHCARE DIAGNOSTICS INC (Continued) **1010313990**

Click this hyperlink while viewing on your computer to access
27 additional CA_HAZNET: record(s) in the EDR Site Report.

I45
SE
1/8-1/4
0.196 mi.
1035 ft.

COULTER STEEL & FORGE COM
1494 65TH
EMERYVILLE, CA 94608

Site 1 of 5 in cluster I

HIST CORTESE **S105023666**
N/A

Relative:
Higher

Actual:
20 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1415

46
NE
1/8-1/4
0.198 mi.
1043 ft.

753 FOLGER AVE
BERKELEY, CA 94710

EDR US Hist Auto Stat **1015626034**
N/A

Relative:
Higher

Actual:
24 ft.

EDR Historical Auto Stations:

Name:	UNITECH FOREIGN AUTO SERV
Year:	2001
Address:	753 FOLGER AVE
Name:	UNITECH FOREIGN AUTO SERVICE
Year:	2002
Address:	753 FOLGER AVE
Name:	UNITECH FOREIGN AUTO SERVICE
Year:	2003
Address:	753 FOLGER AVE
Name:	UNITECH FOREIGN AUTO SERVICE
Year:	2005
Address:	753 FOLGER AVE
Name:	UNITECH FOREIGN AUTO SERVICE
Year:	2006
Address:	753 FOLGER AVE
Name:	UNITECH FOREIGN AUTO SERVICE
Year:	2007
Address:	753 FOLGER AVE
Name:	UNITECH FOREIGN AUTO SERVICE
Year:	2008
Address:	753 FOLGER AVE

I47 **CLEARPRINT PAPER COMPANY** **HIST CORTESE** **S105023665**
SE **1482 65TH** **N/A**
1/8-1/4 **EMERYVILLE, CA 94608**
0.202 mi.
1066 ft. **Site 2 of 5 in cluster I**

Relative:
Higher

Actual:
20 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2083

J48 **MCGRATH STEEL CO.** **HIST CORTESE** **S101624441**
East **6655 HOLLIS ST** **LUST** **N/A**
1/8-1/4 **EMERYVILLE, CA 94608** **CA FID UST**
0.202 mi. **Alameda County CS**
1068 ft. **Site 1 of 3 in cluster J**

Relative:
Higher

Actual:
25 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2283

LUST:
Region: STATE
Global Id: T0600102099
Latitude: 37.8486884851205
Longitude: -122.292600274086
Case Type: LUST Cleanup Site
Status: Open - Assessment & Interim Remedial Action
Status Date: 05/02/2012
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: MD
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-2283
LOC Case Number: RO0000063
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Benzene, Diesel, MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History: Two 2,000-gallon USTs (one diesel, one unleaded gasoline) were removed in July 1996; limited overexcavation was conducted about a week later. Seven Geoprobe soil bores were proposed to be installed in April 1998; however, three Geoprobe bores were actually installed in May 1998 due to deeper than expected groundwater and a gravel layer caused rig refusal. A pre-existing monitoring well (for a now closed, non-fuel related adjacent site) has produced elevated concentrations of TPHg, benzene, and MTBE, suggestive of free-phase (the well has been utilized by McGrath; all other associated wells have been destroyed). In September 2005 an additional work plan was approved. In December 2005, seven Geoprobe bores were installed and soil and grab groundwater samples were collected. An April 2006 agency request for a work plan for well installation and a soil vapor survey has not been answered.

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

Contact:
Global Id: T0600102099
Contact Type: Regional Board Caseworker

MCGRATH STEEL CO. (Continued) **S101624441**

Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600102099
Contact Type: Local Agency Caseworker
Contact Name: MARK DETTERMAN
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: mark.detterman@acgov.org
Phone Number: 5105676876

Status History:
Global Id: T0600102099
Status: Open - Assessment & Interim Remedial Action
Status Date: 05/02/2012

Global Id: T0600102099
Status: Open - Case Begin Date
Status Date: 07/03/1996

Global Id: T0600102099
Status: Open - Site Assessment
Status Date: 09/16/1999

Regulatory Activities:
Global Id: T0600102099
Action Type: RESPONSE
Date: 02/22/2013
Action: Other Report / Document - Regulator Responded

Global Id: T0600102099
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600102099
Action Type: ENFORCEMENT
Date: 03/14/2013
Action: Staff Letter - #20130314

Global Id: T0600102099
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600102099
Action Type: ENFORCEMENT
Date: 11/19/2010
Action: Staff Letter - #20101119

Global Id: T0600102099

MCGRATH STEEL CO. (Continued) **S101624441**

Action Type: ENFORCEMENT
Date: 12/06/2010
Action: Staff Letter - #20101206

Global Id: T0600102099
Action Type: ENFORCEMENT
Date: 11/08/2012
Action: Staff Letter - #20121108

Global Id: T0600102099
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600102099
Action Type: RESPONSE
Date: 06/15/2012
Action: Soil and Water Investigation Workplan - Addendum - Regulator Responded

Global Id: T0600102099
Action Type: RESPONSE
Date: 08/30/2013
Action: Soil and Water Investigation Report

Global Id: T0600102099
Action Type: RESPONSE
Date: 10/15/2011
Action: Soil and Water Investigation Workplan

Global Id: T0600102099
Action Type: ENFORCEMENT
Date: 05/10/2012
Action: Notice of Responsibility - #20120510

Global Id: T0600102099
Action Type: ENFORCEMENT
Date: 05/02/2012
Action: Staff Letter - #20120502

Global Id: T0600102099
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

Global Id: T0600102099
Action Type: RESPONSE
Date: 05/24/2013
Action: Monitoring Report - Quarterly

Global Id: T0600102099
Action Type: RESPONSE
Date: 01/11/2013
Action: Monitoring Report - Quarterly

Global Id: T0600102099
Action Type: RESPONSE
Date: 09/21/2012

MCGRATH STEEL CO. (Continued) **S101624441**

Action: Monitoring Report - Semi-Annually

CA FID UST:
Facility ID: 01002823
Regulated By: UTNKA
Regulated ID: 00067530
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000063
PE: 5602

J49 **MCGRATH STEEL CO.** **HIST UST** **U001599293**
East **6655 HOLLIS ST** **N/A**
1/8-1/4 **EMERYVILLE, CA 94608**
0.202 mi.
1068 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
25 ft.

HIST UST:
Region: STATE
Facility ID: 00000067530
Facility Type: Other
Other Type: REINF. STEEL FABRICA
Total Tanks: 0002
Contact Name: WILLIAM THOMAS
Telephone: 4156581677
Owner Name: MCGRATH STEEL CO.
Owner Address: 6655 HOLLIS STREET
Owner City,St,Zip: EMERYVILLE, CA 94608

Tank Num: 001
Container Num: 1
Year Installed: 1981
Tank Capacity: 00002000
Tank Used for: WASTE
Type of Fuel: 4
Tank Construction: Unkown inches
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: 1981

MCGRATH STEEL CO. (Continued) **U001599293**

Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: None

J50 **MCGRATH STEEL COMPANY** **LUST** **U001599294**
East **6655 HOLLIS ST** **HIST UST** **N/A**
1/8-1/4 **EMERYVILLE, CA 94608** **SWEEPS UST**
0.202 mi.
1068 ft. **Site 3 of 3 in cluster J**

Relative:
Higher

Actual:
25 ft.

LUST REG 2:
Region: 2
Facility Id: 01-2283
Facility Status: Preliminary site assessment underway
Case Number: 789
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 3/16/1998
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST UST:
Region: STATE
Facility ID: 00000001598
Facility Type: Other
Other Type: INSTALL/FABRICATE ST
Total Tanks: 0002
Contact Name: Not reported
Telephone: 4156581677
Owner Name: MCGRATH STEEL COMPANY
Owner Address: 6655 HOLLIS STREET
Owner City,St,Zip: EMERYVILLE, CA 94608

Tank Num: 001
Container Num: 1
Year Installed: 1981
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported

MCGRATH STEEL COMPANY (Continued) **U001599294**

Leak Detection: None

SWEEPS UST:

Status:	Active
Comp Number:	67530
Number:	1
Board Of Equalization:	44-000750
Referral Date:	06-25-91
Action Date:	12-13-93
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	1
Swrcb Tank Id:	01-000-067530-000001
Actv Date:	06-25-91
Capacity:	2000
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	2

Status:	Active
Comp Number:	67530
Number:	1
Board Of Equalization:	44-000750
Referral Date:	06-25-91
Action Date:	12-13-93
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	2
Swrcb Tank Id:	01-000-067530-000002
Actv Date:	06-25-91
Capacity:	2000
Tank Use:	M.V. FUEL
Stg:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

K51 **WEATHERFORD MITSUBISHI** **RCRA-SQG** **1000857202**
NNE **750 POTTER ST** **FINDS** **CA0000072546**
1/8-1/4 **BERKELEY, CA** **NPDES**
0.213 mi. **HIST CORTESE**
1122 ft. **Site 1 of 2 in cluster K** **LUST**
HAZNET

Relative:
Higher

Actual:
26 ft.

RCRA-SQG:

Date form received by agency:	11/29/1993
Facility name:	WEATHERFORD MITSUBISHI
Facility address:	750 POTTER ST BERKELEY, CA 94710
EPA ID:	CA0000072546
Mailing address:	ASHBY BERKELEY, CA 94710
Contact:	DIANA SCHEINER
Contact address:	735 ASHBY BERKELEY, CA 94710
Contact country:	US
Contact telephone:	(510) 654-8280

WEATHERFORD MITSUBISHI (Continued) **1000857202**

Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NISSHO IWAI
Owner/operator address: 735 ASHBY
BERKELEY, CA 94710
Owner/operator country: Not reported
Owner/operator telephone: (510) 654-8280
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Violation Status: No violations found

FINDS:

Registry ID: 110002612511

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

NPDES:
Npdes Number: CAS000002
Facility Status: Terminated
Agency Id: 0

WEATHERFORD MITSUBISHI (Continued) **1000857202**

Region:	2
Regulatory Measure Id:	414811
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 01C360956
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/10/2011
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	09/17/2012
Discharge Name:	Weatherford BMW
Discharge Address:	735 Ashby Avenue
Discharge City:	Berkeley
Discharge State:	California
Discharge Zip:	94710

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0868

LUST:

Region:	STATE
Global Id:	T0600100802
Latitude:	37.850967
Longitude:	-122.2938889
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/12/1997
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-0868
LOC Case Number:	01-0868
File Location:	Not reported
Potential Media Affect:	Well used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

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

Contact:

Global Id:	T0600100802
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100802
Contact Type:	Local Agency Caseworker
Contact Name:	GEOFFERY FIEDLER
Organization Name:	BERKELEY, CITY OF

WEATHERFORD MITSUBISHI (Continued) **1000857202**

Address: 2118 MILVIA STREET 3RD FLOOR
City: BERKELEY
Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Status History:
Global Id: T0600100802
Status: Completed - Case Closed
Status Date: 02/12/1997

Global Id: T0600100802
Status: Open - Case Begin Date
Status Date: 09/12/1991

Global Id: T0600100802
Status: Open - Remediation
Status Date: 05/19/1994

Global Id: T0600100802
Status: Open - Site Assessment
Status Date: 09/12/1991

Global Id: T0600100802
Status: Open - Site Assessment
Status Date: 04/27/1992

Regulatory Activities:
Global Id: T0600100802
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100802
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100802
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-0868
Facility Status: Case Closed
Case Number: 01-0868
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 4/27/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 9/12/1991
Pollution Characterization Began: Not reported

WEATHERFORD MITSUBISHI (Continued) **1000857202**

Pollution Remediation Plan Submitted: 5/19/1994
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HAZNET:

Year:	1999
Gepaid:	CA0000072546
Contact:	N.I. MOTORS USA
Telephone:	4157886200
Mailing Name:	Not reported
Mailing Address:	750 POTTER ST
Mailing City,St,Zip:	BERKELEY, CA 947100000
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	2.2934
Facility County:	1

Year:	1998
Gepaid:	CA0000072546
Contact:	N.I. MOTORS USA
Telephone:	4157886200
Mailing Name:	Not reported
Mailing Address:	750 POTTER ST
Mailing City,St,Zip:	BERKELEY, CA 947100000
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	2.4186
Facility County:	1

Year:	1997
Gepaid:	CA0000072546
Contact:	N.I. MOTORS USA
Telephone:	4157886200
Mailing Name:	Not reported
Mailing Address:	750 POTTER ST
Mailing City,St,Zip:	BERKELEY, CA 947100000
Gen County:	Not reported
TSD EPA ID:	CAD009452657
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	3.1275
Facility County:	1

Year:	1996
Gepaid:	CA0000072546
Contact:	N.I. MOTORS USA
Telephone:	4157886200
Mailing Name:	Not reported
Mailing Address:	750 POTTER ST
Mailing City,St,Zip:	BERKELEY, CA 947100000

WEATHERFORD MITSUBISHI (Continued) **1000857202**

Gen County: Not reported
TSD EPA ID: CAD009452657
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Tons: 2.5437
Facility County: 1

Year: 1996
Gepaid: CA0000072546
Contact: N.I. MOTORS USA
Telephone: 4157886200
Mailing Name: Not reported
Mailing Address: 750 POTTER ST
Mailing City,St,Zip: BERKELEY, CA 947100000
Gen County: Not reported
TSD EPA ID: CAD009452657
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Not reported
Tons: .8340
Facility County: 1

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

K52 **EDR US Hist Auto Stat** **1015624931**
NNE **750 POTTER ST** **N/A**
1/8-1/4 **BERKELEY, CA 94710**
0.213 mi.
1122 ft. **Site 2 of 2 in cluster K**

Relative:
Higher

Actual:
26 ft.

EDR Historical Auto Stations:
Name: WEATHERFORD MOTORS INC
Year: 2005
Address: 750 POTTER ST

I53 **RYERSON STEEL** **HIST UST** **U001599561**
SE **1465 65TH ST** **N/A**
1/8-1/4 **EMERYVILLE, CA 94662**
0.213 mi.
1124 ft. **Site 3 of 5 in cluster I**

Relative:
Higher

Actual:
21 ft.

HIST UST:
Region: STATE
Facility ID: 00000037017
Facility Type: Other
Other Type: STEEL SERVICE
Total Tanks: 0001
Contact Name: DON MAMMINI
Telephone: 4156532933
Owner Name: J T RYERSON & SON
Owner Address: 1465 65TH ST
Owner City,St,Zip: EMERYVILLE, CA 94662

Tank Num: 001

RYERSON STEEL (Continued) **U001599561**

Container Num: SF-1
Year Installed: 1982
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 1/4 inches
Leak Detection: None

I54 **1465 65TH ST (RYERSON-TULL)** **SLIC** **S106234795**
SE **1465 65TH STREET** **N/A**
1/8-1/4 **EMERYVILLE, CA**
0.213 mi.
1124 ft. **Site 4 of 5 in cluster I**

Relative:
Higher

Actual:
21 ft.

SLIC REG 2:
Region: 2
Facility ID: Not reported
Facility Status: Not reported
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

I55 **RYERSON STEEL & ALUMINUM** **HIST CORTESE** **S101580122**
SE **1465 65TH ST** **LUST** **N/A**
1/8-1/4 **EMERYVILLE, CA 94608** **CA FID UST**
0.213 mi. **SLIC**
1124 ft. **Site 5 of 5 in cluster I** **Alameda County CS**
SWEEPS UST

Relative:
Higher

Actual:
21 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1785

LUST:
Region: STATE
Global Id: T0600101653
Latitude: 37.8463476
Longitude: -122.2935264
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/27/2002
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: DH
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1785

RYERSON STEEL & ALUMINUM (Continued) **S101580122**

LOC Case Number: RO0000054
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

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

Contact:
Global Id: T0600101653
Contact Type: Local Agency Caseworker
Contact Name: DONALD HWANG
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: 5105676746

Global Id: T0600101653
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600101653
Status: Completed - Case Closed
Status Date: 06/27/2002

Global Id: T0600101653
Status: Open - Case Begin Date
Status Date: 03/22/1993

Regulatory Activities:
Global Id: T0600101653
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600101653
Action Type: REMEDIATION
Date: 01/01/1950
Action: Not reported

LUST REG 2:
Region: 2
Facility Id: 01-1785
Facility Status: Preliminary site assessment underway
Case Number: 799
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank

RYERSON STEEL & ALUMINUM (Continued) **S101580122**

Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01001388
Regulated By: UTNKA
Regulated ID: 00037017
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 07/02/2008
Global Id: SL600192796
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.846912
Longitude: -122.290328
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

Alameda County CS:
Status: Case Closed
Record Id: RO0000054
PE: 5602

SWEEPS UST:
Status: Not reported

RYERSON STEEL & ALUMINUM (Continued) **S101580122**

Comp Number:	37017
Number:	Not reported
Board Of Equalization:	44-000383
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-037017-000001
Actv Date:	Not reported
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	DIESEL
Number Of Tanks:	1

56
ENE
1/8-1/4
0.224 mi.
1184 ft.

VETERANS AFFAIRS OUTPATIENT CLINIC **RCRA-SQG 1001075564**
841 FOLGER AVE **FINDS CAR000006528**
BERKELEY, CA 94710

Relative:
Higher

Actual:
27 ft.

RCRA-SQG:

Date form received by agency:	10/08/1995
Facility name:	VETERANS AFFAIRS OUTPATIENT CLINIC
Facility address:	841 FOLGER AVE BERKELEY, CA 94710
EPA ID:	CAR000006528
Mailing address:	CONTRA COSTA PLEASANT HILL, CA 94523
Contact:	CYNTHIA CASALINA
Contact address:	2300 CONTRA COSTA PLEASANT HILL, CA 94523
Contact country:	US
Contact telephone:	(510) 372-4520
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	VETERANS AFFAIRS
Owner/operator address:	2300 CONTRA COSTA BLVD PLEASANT HILL, CA 94523
Owner/operator country:	Not reported
Owner/operator telephone:	(510) 372-4520
Legal status:	Federal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No

VETERANS AFFAIRS OUTPATIENT CLINIC (Continued) **1001075564**

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

Violation Status: No violations found

FINDS:

Registry ID: 110002908578

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

L57
South
1/8-1/4
0.229 mi.
1209 ft.

Relative:
Lower

Actual:
14 ft.

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER **RCRA-LQG** **1000367635**
6455 CHRISTLE STREET **CAD982049157**
EMMERYVILLE, CA 94608

Site 1 of 2 in cluster L

RCRA-LQG:
Date form received by agency: 03/02/2012
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Facility address: 6455 CHRISTLE STREET
EMMERYVILLE, CA 946081010
EPA ID: CAD982049157
Mailing address: HORTON STREET
EMMERYVILLE, CA 946081010
Contact: KARL J HUNTZICKER
Contact address: HORTON STREET
EMMERYVILLE, CA 946081010
Contact country: Not reported
Contact telephone: (510) 923-3568
Contact email: KARL.HUNTZICKER@NOVARTS.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER (Continued) **1000367635**

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

Owner/Operator Summary:

Owner/operator name:	HARVEST STREET
Owner/operator address:	CHRISTLE AVENUE 550
	EMERYVILLLE, CA 94608
Owner/operator country:	Not reported
Owner/operator telephone:	(510) 597-5900
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/01/2007
Owner/Op end date:	Not reported

Owner/operator name:	JS BAY CENTER ASSOCIATES
Owner/operator address:	6400 CHRIISTIE AVE
	EMERYVILLE, CA 94608
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/31/1996
Owner/Op end date:	Not reported

Owner/operator name:	NOVARTIS VACCINES AND DIAGNOSTICS
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	04/20/2006
Owner/Op end date:	Not reported

Owner/operator name:	NOVARTIS VACCINES & DIAGNOSTICS
Owner/operator address:	CHRISTLE STREET
	EMMERYVILLE, CA 94608
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/27/2006
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER (Continued) **1000367635**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/29/2010
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: NOVARTIS BAY CENTER
Classification: Large Quantity Generator

Date form received by agency: 03/24/2008
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: NOVARTIS BAY CENTER
Classification: Large Quantity Generator

Date form received by agency: 10/27/2006
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: NOVARTIS BAY CENTER
Classification: Large Quantity Generator

Date form received by agency: 03/01/2006
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: CHIRON CORPORATION BAY CENTER CAMPUS
Classification: Large Quantity Generator

Date form received by agency: 02/27/2004
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: CHIRON CORPORATION BAY CENTER B
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: CHIRON-BAYCENTER
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: CHIRON-BAYCENTER
Classification: Large Quantity Generator

Date form received by agency: 12/16/1998
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: CHIRON CORP
Classification: Small Quantity Generator

Date form received by agency: 03/27/1996
Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: CHIRON CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/28/1994

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER (Continued) **1000367635**

Facility name: NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER
Site name: CHIRON CORPORATION
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D009
Waste name: MERCURY

Waste code: D022
Waste name: CHLOROFORM

Waste code: D038
Waste name: PYRIDINE

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

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

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER (Continued) **1000367635**

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: P105
Waste name: SODIUM AZIDE

Waste code: U080
Waste name: METHANE, DICHLORO-

Waste code: U188
Waste name: PHENOL

Waste code: U404
Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER (Continued) **1000367635**

Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D010
Waste name: SELENIUM

Waste code: D011
Waste name: SILVER

Waste code: D022
Waste name: CHLOROFORM

Waste code: D038
Waste name: PYRIDINE

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

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

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U002
Waste name: ACETONE (I)

Waste code: U003
Waste name: ACETONITRILE (I,T)

Waste code: U007
Waste name: ACRYLAMIDE

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER (Continued) **1000367635**

Waste code: U134
Waste name: HYDROFLUORIC ACID (C,T)

Waste code: U219
Waste name: THIOUREA

Waste code: U404
Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 8535

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 8320

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 9454

Waste code: D022
Waste name: CHLOROFORM
Amount (Lbs): 8538

Waste code: D038
Waste name: PYRIDINE
Amount (Lbs): 6738

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 14668

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER (Continued) **1000367635**

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 14668

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 14668

Waste code: P105
Waste name: SODIUM AZIDE
Amount (Lbs): 45

Waste code: U080
Waste name: METHANE, DICHLORO-
Amount (Lbs): 440

Waste code: U404
Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE
Amount (Lbs): 10

Facility Has Received Notices of Violations:
Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/01/1999
Date achieved compliance: 10/01/1999
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 08/02/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 07/01/1999
Date achieved compliance: 10/01/1999
Violation lead agency: EPA
Enforcement action: Not reported

NOVARTIS VACCINES & DIAGNOSTICS- BAY CENTER (Continued) **1000367635**

Enforcement action date: 08/02/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 07/01/1999
Date achieved compliance: 10/01/1999
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/01/1999
Date achieved compliance: 10/01/1999
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/01/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/01/1999
Evaluation lead agency: EPA

L58 **KELIOS THERAPEUTICS** **RCRA-SQG** **1001481023**
South **6455 CHRISTIE AVE** **FINDS** **CAR000047100**
1/8-1/4 **EMERYVILLE, CA 94608**
0.229 mi.
1209 ft. **Site 2 of 2 in cluster L**

Relative:
Lower

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 08/17/2001
Facility name: KELIOS THERAPEUTICS
Facility address: 6455 CHRISTIE AVE
STE B
EMERYVILLE, CA 946081054
EPA ID: CAR000047100
Contact: LEWIS WILLIAMS
Contact address: 6455 CHRISTIE AVE STE B

KELIOS THERAPEUTICS (Continued) **1001481023**

EMERYVILLE, CA 946081054
Contact country: US
Contact telephone: (415) 305-1374
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: J S BAY CTR ASSOC THE MARTIN GROUP
Owner/operator address: 6400 CHRISTIE AVE
EMERYVILLE, CA 94608
Owner/operator country: Not reported
Owner/operator telephone: (510) 652-5852
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A

KELIOS THERAPEUTICS (Continued) **1001481023**

CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D028
Waste name: 1,2-DICHLOROETHANE

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

Waste code: U003
Waste name: ACETONITRILE (I,T)

Waste code: U080
Waste name: METHANE, DICHLORO-

Waste code: U213
Waste name: FURAN, TETRAHYDRO-(I)

Violation Status: No violations found

FINDS:

Registry ID: 110009553508

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

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

59
South
1/8-1/4
0.233 mi.
1231 ft.

GARRETT FREIGHTLINES / BAY CENTER
0 64TH & LACOSTE
EMERYVILLE, CA 94608

SLIC **S106235271**
Alameda County CS **N/A**

Relative:
Lower

Actual:
14 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	04/03/2009
Global Id:	SLT2O05561
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002799
Latitude:	37.8449523034736
Longitude:	-122.295105457306
Case Type:	Cleanup Program Site
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Lead, Gasoline
Site History:	From 1958 to 1986 the site was occupied by Delta and Garrett Trucking Lines. The site was redeveloped in 1986 and the six fuel USTs were removed, and contaminated soil was excavated and off-hauled. A groundwater pump and treat system was installed in July 1990 and operated until March 1991. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

SLIC REG 2:

Region:	2
Facility ID:	SLT2O05561
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0002799
PE:	5502
Status:	Pollution Characterization
Record Id:	RO0002799

GARRETT FREIGHTLINES / BAY CENTER (Continued) **S106235271**

PE: 5502

60
ENE
1/8-1/4
0.237 mi.
1249 ft.

CHALLENGE MANUFACTURING CO.
1308 067TH ST
OAKLAND, CA 94608

CA FID UST **S101624415**
SWEEPS UST **N/A**

Relative:
Higher

Actual:
28 ft.

CA FID UST:

Facility ID:	01002743
Regulated By:	UTNKA
Regulated ID:	00054436
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4156528847
Mail To:	Not reported
Mailing Address:	1308 067TH ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94608
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:	54436
Number:	9
Board Of Equalization:	Not reported
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	B
Swrcb Tank Id:	01-000-054436-000001
Actv Date:	07-01-85
Capacity:	Not reported
Tank Use:	UNKNOWN
Stg:	W
Content:	Not reported
Number Of Tanks:	2

Status:	Active
Comp Number:	54436
Number:	9
Board Of Equalization:	Not reported
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	A
Swrcb Tank Id:	01-000-054436-000002
Actv Date:	07-01-85
Capacity:	250

CHALLENGE MANUFACTURING CO. (Continued) **S101624415**

Tank Use: UNKNOWN
Stg: W
Content: Not reported
Number Of Tanks: Not reported

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61 **UNKNOWN** **SLIC** **S105194689**
SSE **3707 BAY ST** **N/A**
1/8-1/4 **EMERYVILLE, CA 94617**
0.238 mi.
1255 ft.

Relative:
Lower

Actual:
13 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/02/2009
Global Id:	T0600191543
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.845025
Longitude:	-122.294343
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01S0437
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

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

SLIC REG 2:

Region:	2
Facility ID:	01S0437
Facility Status:	Preliminary site assessment underway
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	5/1/1993
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

M62 **GROVE VALVE & REGULATOR COMPANY (TOXIC)** **SLIC** **S108245987**
ESE **6529 HOLLIS** **Alameda County CS** **N/A**
1/8-1/4 **EMERYVILLE, CA 94608**
0.239 mi.
1263 ft. **Site 1 of 3 in cluster M**

Relative:
Higher

Actual:
24 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/25/1997
Global Id:	T06019736964
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002671
Latitude:	37.846868
Longitude:	-122.292677
Case Type:	Cleanup Program Site
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

Alameda County CS:

Status:	Case Closed
Record Id:	RO0002671
PE:	5502

M63 **B E P EMERYVILLE TECH L L C** **RCRA-SQG** **1000429725**
ESE **6529 HOLLIS ST** **FINDS** **CAD066564824**
1/8-1/4 **EMERYVILLE, CA 94608** **SLIC**
0.239 mi. **Alameda County CS**
1263 ft. **Site 2 of 3 in cluster M** **CHMIRS**

Relative:
Higher

Actual:
24 ft.

RCRA-SQG:

Date form received by agency:	08/23/2001
Facility name:	B E P EMERYVILLE TECH L L C
Facility address:	6529 HOLLIS ST EMERYVILLE, CA 94608
EPA ID:	CAD066564824
Mailing address:	433 CALIFORNIA ST 6TH FL CARE OF ELLIS PARTNERS L L C SAN FRANCISCO, CA 94104
Contact:	KATHY WELLS
Contact address:	433 CALIFORNIA ST 6TH FL CARE OF ELLIS PARTNERS L L C SAN FRANCISCO, CA 94104
Contact country:	US
Contact telephone:	(415) 391-9800
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

B E P EMERYVILLE TECH L L C (Continued) **1000429725**

Owner/Operator Summary:
- Owner/operator name: B E P EMERYVILLE TECH L P
- Owner/operator address: 433 CALIFORNIA ST 6TH FL
  SAN FRANCISCO, CA 94104
- Owner/operator country: Not reported
- Owner/operator telephone: (415) 391-9800
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: NOT REQUIRED
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: (415) 555-1212
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

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

Historical Generators:
- Date form received by agency: 09/01/1996
- Facility name: B E P EMERYVILLE TECH L L C
- Classification: Small Quantity Generator

- Date form received by agency: 02/29/1992
- Facility name: B E P EMERYVILLE TECH L L C
- Site name: GROVE VALVE & REGULATOR CO
- Classification: Large Quantity Generator

Hazardous Waste Summary:
- Waste code: D000
- Waste name: Not Defined

- Waste code: D040
- Waste name: TRICHLOROETHYLENE

B E P EMERYVILLE TECH L L C (Continued) **1000429725**

Violation Status: No violations found

FINDS:

Registry ID: 110009531382

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

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

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	12/11/1996
Global Id:	SLT2O06672
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002620
Latitude:	37.8470872875941
Longitude:	-122.292680740356
Case Type:	Cleanup Program Site
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Facility closure lead to discovery surface leaks, spills, sumps, discharges to sanitary sewer, and other issues related to operations at the facility, including cutting oils. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

SLIC REG 2:

Region:	2
Facility ID:	SLT2O06672
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported

Date Prelim Site Assmnt Workplan Submitted: Not reported

B E P EMERYVILLE TECH L L C (Continued) **1000429725**

Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0002620
PE: 5502

Status: Pollution Characterization
Record Id: RO0002620
PE: 5502

CHMIRS:
OES Incident Number: 2291
OES notification: Not reported
OES Date: 5/19/1994
OES Time: 07:29:31 AM
Incident Date: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
Special Studies 1: Not reported
Special Studies 2: Not reported
Special Studies 3: Not reported
Special Studies 4: Not reported
Special Studies 5: Not reported
Special Studies 6: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA/DOT/PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Comments: Not reported
Facility Telephone: Not reported
Waterway Involved: YES
Waterway: stormdrain
Spill Site: Not reported

B E P EMERYVILLE TECH L L C (Continued) **1000429725**

Cleanup By:	erickson env co
Containment:	Not reported
What Happened:	Not reported
Type:	CHEMICAL
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	grove valve and regulator co
Incident Date:	5/18/94 1900
Admin Agency:	Not reported
Amount:	est 30gals
Contained:	YES
Site Type:	IND PLT
E Date:	Not reported
Substance:	rust preventive (SCS70) 2% water mixture 98%
Quantity Released:	Not reported
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
Description:	substance backed up in a tank and went into a stormdrain

---

M64 **EDR US Hist Auto Stat** **1015219578**
ESE **1400 65TH ST** **N/A**
1/8-1/4 **EMERYVILLE, CA 94608**
0.249 mi.
1316 ft. **Site 3 of 3 in cluster M**

Relative:
Higher

Actual:
23 ft.

EDR Historical Auto Stations:

Name:	AUTO RETURN
Year:	2012
Address:	1400 65TH ST

N65 **ASHBY TEXACO** **HIST CORTESE** **S101623575**
NE **840 ASHBY AVE** **LUST** **N/A**
1/8-1/4 **BERKELEY, CA 94526** **CA FID UST**
0.250 mi. **SWEEPS UST**
1318 ft. **Site 1 of 2 in cluster N**

Relative:
Higher

Actual:
28 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA

ASHBY TEXACO (Continued) **S101623575**

Reg Id: 01-1243

LUST:

Region:	STATE
Global Id:	T0600101142
Latitude:	37.850648
Longitude:	-122.291325
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/18/1999
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-1243
LOC Case Number:	01-1243
File Location:	Not reported
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:	T0600101142
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600101142
Contact Type:	Local Agency Caseworker
Contact Name:	GEOFFERY FIEDLER
Organization Name:	BERKELEY, CITY OF
Address:	2118 MILVIA STREET 3RD FLOOR
City:	BERKELEY
Email:	gfiedler@ci.berkeley.ca.us
Phone Number:	Not reported

Status History:

Global Id:	T0600101142
Status:	Completed - Case Closed
Status Date:	11/18/1999

Global Id:	T0600101142
Status:	Open - Case Begin Date
Status Date:	03/27/1986

Global Id:	T0600101142
Status:	Open - Remediation
Status Date:	05/25/1994

Global Id:	T0600101142
Status:	Open - Site Assessment
Status Date:	06/30/1989

ASHBY TEXACO (Continued) **S101623575**

Global Id: T0600101142
Status: Open - Site Assessment
Status Date: 02/16/1991

Global Id: T0600101142
Status: Open - Site Assessment
Status Date: 02/26/1991

Regulatory Activities:
Global Id: T0600101142
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101142
Action Type: ENFORCEMENT
Date: 05/23/1990
Action: * Historical Enforcement

Global Id: T0600101142
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101142
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1243
Facility Status: Case Closed
Case Number: 01-1243
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 2/26/1991
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/30/1989
Pollution Characterization Began: 2/16/1991
Pollution Remediation Plan Submitted: 5/25/1994
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01001362
Regulated By: UTNKA
Regulated ID: 00067656
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4155409702
Mail To: Not reported
Mailing Address: 840 ASHBY AVE

ASHBY TEXACO (Continued) **S101623575**

Mailing Address 2: Not reported
Mailing City,St,Zip: BERKELEY 94526
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: Not reported
Comp Number: 67656
Number: Not reported
Board Of Equalization: 44-001559
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-067656-000001
Actv Date: Not reported
Capacity: 6000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 4

Status: Not reported
Comp Number: 67656
Number: Not reported
Board Of Equalization: 44-001559
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-067656-000002
Actv Date: Not reported
Capacity: 4000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 67656
Number: Not reported
Board Of Equalization: 44-001559
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-067656-000003
Actv Date: Not reported
Capacity: 2000

ASHBY TEXACO (Continued) **S101623575**

Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 67656
Number: Not reported
Board Of Equalization: 44-001559
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-067656-000004
Actv Date: Not reported
Capacity: 4000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

N66 **ASHBY TEXACO** **HIST UST** **U001596676**
NE **840 ASHBY AVE** **N/A**
1/8-1/4 **BERKELEY, CA 94526**
0.250 mi.
1318 ft. **Site 2 of 2 in cluster N**

Relative:
Higher

Actual:
28 ft.

HIST UST:
Region: STATE
Facility ID: 00000067656
Facility Type: Gas Station
Other Type: Not reported
Total Tanks: 0004
Contact Name: DIABLO AUTO PARTS
Telephone: 4155409702
Owner Name: ARTHUR & MILDRED WEISBERG
Owner Address: 12 MARTIN COVE
Owner City,St,Zip: OAKLAND, CA 94526

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00006000
Tank Used for: WASTE
Type of Fuel: 4
Tank Construction: Unkown centimeters
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

ASHBY TEXACO (Continued) **U001596676**

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

67
SSW
1/4-1/2
0.272 mi.
1438 ft.

RYDER/PIE NATIONWIDE, INC.
5500 EASTSHORE HWY
EMERYVILLE, CA 94608

CA FID UST **S101630369**
SLIC **N/A**

Relative:
Lower

Actual:
12 ft.

CA FID UST:
Facility ID: 01001293
Regulated By: UTNKA
Regulated ID: 00035998
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4156525392
Mail To: Not reported
Mailing Address: 5500 EASTSHORE HWY
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SLIC REG 2:
Region: 2
Facility ID: SLT2O06268
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported

RYDER/PIE NATIONWIDE, INC. (Continued) **S101630369**

Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

68
NNE
1/4-1/2
0.277 mi.
1461 ft.

WAREHAM DEVELOPMENT
2900 5TH ST
BERKELEY, CA

SLIC **S101641255**
N/A

Relative:
Higher

Actual:
27 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/04/2009
Global Id:	SLT2O02028
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.852034
Longitude:	-122.293874
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	SLT2O02028
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

SLIC REG 2:

Region:	2
Facility ID:	SLT2O02028
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

69
East
1/4-1/2
0.278 mi.
1469 ft.

LIQUID SUGARS INC (TOXICS)
1269 66TH
OAKLAND, CA 94608

SLIC **S111711493**
N/A

Relative:
Higher

Actual:
28 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/04/2001
Global Id:	SL1821D603
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002463
Latitude:	37.847911
Longitude:	-122.290636
Case Type:	Cleanup Program Site
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	* Solvents, Lead, Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

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

70
South
1/4-1/2
0.284 mi.
1497 ft.

ADVANTAGE TIRE SERVICES
5892 CHRISTIE AVE
EMERYVILLE, CA 94608

SLIC **S110041752**
Alameda County CS **N/A**

Relative:
Lower

Actual:
13 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	05/13/1991
Global Id:	T06019784325
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002617
Latitude:	37.8410656
Longitude:	-122.2949186
Case Type:	Cleanup Program Site
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Three hydraulic hoists were present at the site and soil and groundwater samples were collected upon removal. A concentration of 1.5 mg/l (1,500 ug/l) TPH as hydraulic oil was reported in groundwater. A resampling event may have occurred; however, no additional analytical data is available. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

ADVANTAGE TIRE SERVICES (Continued) **S110041752**

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0002617
PE: 5502

Status: Preliminary Site Assessment Underway
Record Id: RO0002617
PE: 5502

71
South
1/4-1/2
0.298 mi.
1574 ft.

Relative:
Lower

Actual:
13 ft.

MARKET PLACE MARTIN COMPANY **SLIC** **S106234869**
UNKNOWN CHRISTIE AVE **N/A**
EMERYVILLE, CA

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/05/2009
Global Id:	SLT2O06066
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.843977
Longitude:	-122.295553
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01S0169
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	* Solvents
Site History:	Not reported

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

SLIC REG 2:

Region:	2
Facility ID:	01S0169
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

72
ENE
1/4-1/2
0.300 mi.
1584 ft.

UC BERKELEY
UNKNOWN MURRY ST & FOLGER ST & 7TH ST
BERKELEY, CA

Database(s): **SLIC**
EDR ID Number: **S106235269**
EPA ID Number: **N/A**

Relative:
Higher

Actual:
33 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/04/2009
Global Id:	SLT2O03743
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.850434
Longitude:	-122.290921
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	SLT2O03743
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

SLIC REG 2:

Region:	2
Facility ID:	SLT2O03743
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

O73
SSE
1/4-1/2
0.303 mi.
1600 ft.

TRANSO/LACOSTE SITE
1600 64TH STREET/6401 BAY
EMERYVILLE, CA 94608

Database(s): **HIST CORTESE, RESPONSE, ENVIROSTOR**
EDR ID Number: **S102008152**
EPA ID Number: **N/A**

Site 1 of 2 in cluster O

Relative:
Lower

Actual:
12 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01200020

RESPONSE:

Facility ID:	01200020
Site Type:	State Response
Site Type Detail:	State Response or NPL

TRANSO/LACOSTE SITE (Continued) **S102008152**

Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Site Code:	200332
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	15
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	02/21/1995
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.84444
Longitude:	-122.2925
APN:	NONE SPECIFIED
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, MANUFACTURING - OTHER
Potential COC:	Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL
Confirmed COC:	Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL, 30024-NO, 30025-NO, 30013-NO, 3002502-NO
Potential Description:	OTH, SV
Alias Name:	ARVEY PAPER / TRANSO ENVELOPES
Alias Type:	Alternate Name
Alias Name:	PARCEL 4-2 AND 4-3
Alias Type:	Alternate Name
Alias Name:	TRANSO/LACOSTE
Alias Type:	Alternate Name
Alias Name:	110033609646
Alias Type:	EPA (FRS #)
Alias Name:	200332
Alias Type:	Project Code (Site Code)
Alias Name:	01200020
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	05/19/1994
Comments:	Completed RA. A passive soil venting system was installed beneath the concrete parking garage slab of EmeryBay II.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/16/1991
Comments:	Completed PEA. Groundwater underneath the Site was discovered to be contaminated by lead, oil and grease in June 1991. Groundwater monitoring took place.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	09/17/1991

TRANSO/LACOSTE SITE (Continued) **S102008152**

Comments: Completed Site Screening.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 12/31/1992
Comments: Report required removal and monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 11/24/1992
Comments: Design for the soil venting proposal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/04/1992
Comments: Conclusion of the report is that groundwater monitoring wells can be closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 06/19/1991
Comments: .

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Facility ID: 01200020
Site Code: 200332
Assembly: 15
Senate: 09
Special Program: Not reported
Status: No Further Action
Status Date: 02/21/1995
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party

TRANSO/LACOSTE SITE (Continued) **S102008152**

Latitude: 37.84444
Longitude: -122.2925
APN: NONE SPECIFIED
Past Use: FUEL - VEHICLE STORAGE/ REFUELING, MANUFACTURING - OTHER
Potential COC: Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL
Confirmed COC: Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL, 30024-NO, 30025-NO, 30013-NO, 3002502-NO
Potential Description: OTH, SV
Alias Name: ARVEY PAPER / TRANSO ENVELOPES
Alias Type: Alternate Name
Alias Name: PARCEL 4-2 AND 4-3
Alias Type: Alternate Name
Alias Name: TRANSO/LACOSTE
Alias Type: Alternate Name
Alias Name: 110033609646
Alias Type: EPA (FRS #)
Alias Name: 200332
Alias Type: Project Code (Site Code)
Alias Name: 01200020
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/19/1994
Comments: Completed RA. A passive soil venting system was installed beneath the concrete parking garage slab of EmeryBay II.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/16/1991
Comments: Completed PEA. Groundwater underneath the Site was discovered to be contaminated by lead, oil and grease in June 1991. Groundwater monitoring took place.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/17/1991
Comments: Completed Site Screening.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 12/31/1992
Comments: Report required removal and monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 11/24/1992
Comments: Design for the soil venting proposal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report

TRANSO/LACOSTE SITE (Continued) **S102008152**

Completed Date: 05/04/1992
Comments: Conclusion of the report is that groundwater monitoring wells can be closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 06/19/1991
Comments: .

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

O74 **IKEA (FORMER BARBARY COAST)** **Cortese** **S102008194**
SSE **4300 EASTSHORE HIGHWAY** **HIST CORTESE** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **LUST**
0.305 mi. **SLIC**
1611 ft. **Site 2 of 2 in cluster O** **Alameda County CS**
DEED
Relative: **VCP**
Lower **RESPONSE**
ENVIROSTOR

Actual:
13 ft.

CORTESE:
Region: CORTESE
Envirostor Id: 1440005
Site/Facility Type: STATE RESPONSE
Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS
Status Date: 09/19/2000
Site Code: 200312, 201062
Latitude: 37.829503
Longitude: -122.29181
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: export
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0394

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01440005

LUST:
Region: STATE
Global Id: T0600100361
Latitude: 37.8320563631796
Longitude: -122.2918009758
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 10/28/2010
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Worker: Not reported
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 01-0394
LOC Case Number: RO0000431
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Polychlorinated biphenyls (PCBs), Lead, Other Metal, Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

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

Contact:
Global Id: T0600100361
Contact Type: Local Agency Caseworker
Contact Name: MARK DETTERMAN
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: mark.detterman@acgov.org
Phone Number: 5105676876

Global Id: T0600100361
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600100361
Status: Open - Case Begin Date
Status Date: 02/26/1988

Global Id: T0600100361
Status: Open - Case Begin Date
Status Date: 10/04/1990

Global Id: T0600100361
Status: Open - Referred
Status Date: 07/11/2000

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Global Id: T0600100361
Status: Open - Site Assessment
Status Date: 06/12/1992

Global Id: T0600100361
Status: Open - Site Assessment
Status Date: 07/11/2000

Global Id: T0600100361
Status: Open - Site Assessment
Status Date: 10/28/2010

Regulatory Activities:
Global Id: T0600100361
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100361
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Notice of Violation - #20090724

Global Id: T0600100361
Action Type: ENFORCEMENT
Date: 07/03/2008
Action: Staff Letter - #20080703

Global Id: T0600100361
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100361
Action Type: RESPONSE
Date: 08/10/2009
Action: Electronic Reporting Submittal Due

Global Id: T0600100361
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100361
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

LUST REG 2:
Region: 2
Facility Id: 01-0394
Facility Status: Preliminary site assessment underway
Case Number: 1696
How Discovered: Tank Closure
Leak Cause: Structure Failure

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Leak Source: Tank
Date Leak Confirmed: 12/14/1990
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/04/2009
Global Id: SL163221120
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.838039
Longitude: -122.2965
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: 01S0319
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000431
PE: 5602

Status: 11
Record Id: RO0000431
PE: 5602

Status: Pollution Characterization
Record Id: RO0000431
PE: 5602

DEED:
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED / OPERATION & MAINTENANCE
Deed Date(s): 05/28/1997
EDR Link ID: 1440005

Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Deed Date(s): 06/19/1997

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

EDR Link ID: 1330040

Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Deed Date(s): 06/28/1996
EDR Link ID: 1330040

VCP:
Facility ID: 01330040
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: DAY, ELD, HOS, LUC, EX, NOWN, NDAM, RES
Acres: 4.6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 200496
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 10/01/1996
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.83112 / -122.2932
APN: 049-0617-002-06, 49-617-2-6
Past Use: MANUFACTURING - METAL
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: BAY/SHELLMOUND/40TH STREET
Alias Type: Alternate Name
Alias Name: Emeryville, City of / 40th Street Overhead Projects
Alias Type: Alternate Name
Alias Name: SHELLMOUND/40TH STREET
Alias Type: Alternate Name
Alias Name: Shellmound Street Extension
Alias Type: Alternate Name
Alias Name: 049-0617-002-06
Alias Type: APN
Alias Name: 49-617-2-6
Alias Type: APN
Alias Name: 110033608380
Alias Type: EPA (FRS #)
Alias Name: 200496
Alias Type: Project Code (Site Code)
Alias Name: 01330040
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 10/01/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/01/2010
Comments: The Site includes an embankment and part of Shellmound Street roadway near the IKEA parking area and part of the Shellmound Street roadway near the Marriott Courtyard Hotel. DTSC visited the Site and observed that the embankment and roadway appeared to be in good condition. There was no evidence of any activity prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/16/2009
Comments: The site includes an embankment and part of Shellmound Street roadway near the IKEA parking area and part of Shellmound Street roadway near the Marriott Courtyard Hotel. The embankment and roadway appeared to be in good condition. There was no evidence of any activity prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/12/1997
Comments: Second amendment covering payment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 05/07/1996
Comments: First amendment executed to expand the area covered under the VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Amendment
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/07/2008
Comments: The embankment and roadway appeared to be in good condition. DTSC concludes that current site condition remain protective of human health and the environment.

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/29/2007
Comments: The embankment and roadway appeared to be in good condition. There was no evidence of any activity prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 04/12/1994
Comments: VCA fully executed to oversee the investigation and any cleanup required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/19/2011
Comments: DTSC conducted an annual inspection that also served as the site inspection for the Five-Year Review. The embankment and roadway over residual lead-contaminated were observed to be in generally good condition. During the inspection it was observed that a section of the Shellmound Street roadway near the Marriot Hotel needs repaired, and a follow-up letter was sent to the City of Emeryville .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/26/2006
Comments: Five-year review report completed. Remedial action taken remain protective..

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/26/2001
Comments: Completed Five-Year Review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 09/26/1996
Comments: Approved O&M Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/05/1996
Comments: Completed RA for the Shellmound Street. About 8000 cubic yards of contaminated soil were excavated and treated on-site with dry reagents and an asphaltic emulsion mixture on-site. The treated soil

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

was used as roadway. Approximately 113,000 gallons of groundwater were collected, treated and disposed to the sanitary sewer.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/22/1995
Comments: Completed RA for the 40th Street Overhead Bridge. Approximately 300 cubic yards of soils were excavated and disposed off-site. The remaining 5,700 cubic yards were encapsulated within an 18-inch thick clay blanket within the embankment and an additional 2 to 5 feet of clean fill was placed on top.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/19/2011
Comments: DTSC completed a Five-Year Review and concluded that the remedy implemented a the site (a cap over contaminated soil and land use restrictions) remains protective of human health and the environment. During the inspection it was observed that a section of the Shellmound Street roadway near the Marriot Hotel needs repaired, and a follow-up letter was sent to the City of Emeryville .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 10/26/2012
Comments: This Plan details the handling of contaminated soils within the Caltrans Route 80 Bikeway Pathway Project, which includes portions of the IKEA, Shellmound Street and Former Oakland Army Base/Oakland Gateway Development Sites.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/19/2013
Comments: Soil management plan for the Bikeway project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 09/30/1996
Comments: Signed O&M Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/28/1996
Comments: Recorded Deed Restriction limiting use of site as street and prohibiting soil disturbance without an approved Soil Management Plan.

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/01/1996
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2016
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 01330043
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: 200488
Assembly: 15
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified
Status Date: 06/20/1996
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.83353 / -122.2938
APN: NONE SPECIFIED
Past Use: MANUFACTURING - METAL
Potential COC: 30013, 30018, 30024
Confirmed COC: 30013,30018,30024
Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033606239
Alias Type: EPA (FRS #)
Alias Name: 200488
Alias Type: Project Code (Site Code)
Alias Name: 01330043
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/22/1996

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Comments:	Removal Action completed. Excavated and hauled off for disposal lead and TPH contaminated soil as part of construction of new sewer line. Any groundwater encountered was treated and disposed by sewer.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/22/1995
Comments:	Removal Action completed. Excavated and hauled offsite lead and TPH contaminated soils as part of the construction of a box culvert for new East Bay Municipal Utility sewer line. Any groundwater encountered was treated and disposed by sewer.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/20/1996
Comments:	Site certified. Groundwater remediation covered under Barbary Coast remediation.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

RESPONSE:

Facility ID:	01440005
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	15.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	201062
Site Mgmt. Req.:	ASP, FOUN, DAY, ELD, HOS, LUC, MON, EX, RES
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Certified / Operation & Maintenance
Status Date:	09/19/2000
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	37.82950
Longitude:	-122.2918
APN:	007 061800108, 007 061800619, 007 061800621, 007 061800625, 049 061700110, 049 061700212, 49-617-1-10, 49-617-2-12
Past Use:	MANUFACTURING - METAL, MANUFACTURING - OTHER
Potential COC:	Lead, Polychlorinated biphenyls (PCBs, TPH-diesel

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Confirmed COC:	Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Polychlorinated biphenyls (PCBs, TPH-diesel, Lead
Potential Description:	OTH, SOIL
Alias Name:	BARBARY COAST STEEL
Alias Type:	Alternate Name
Alias Name:	IKEA
Alias Type:	Alternate Name
Alias Name:	IKEA Property, Inc.
Alias Type:	Alternate Name
Alias Name:	JUDSON STEEL
Alias Type:	Alternate Name
Alias Name:	007 061800108
Alias Type:	APN
Alias Name:	007 061800619
Alias Type:	APN
Alias Name:	007 061800621
Alias Type:	APN
Alias Name:	007 061800625
Alias Type:	APN
Alias Name:	049 061700110
Alias Type:	APN
Alias Name:	049 061700212
Alias Type:	APN
Alias Name:	49-617-1-10
Alias Type:	APN
Alias Name:	49-617-2-12
Alias Type:	APN
Alias Name:	110033615078
Alias Type:	EPA (FRS #)
Alias Name:	T0600100361
Alias Type:	GeoTracker Global ID
Alias Name:	200312
Alias Type:	Project Code (Site Code)
Alias Name:	201062
Alias Type:	Project Code (Site Code)
Alias Name:	01440005
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	01/02/2008
Comments:	The report recommends continued cap inspections and closure of the two existing monitoring wells. Contaminants in groundwater, mainly petroleum hydrocarbons, continue to remain well below the cleanup levels.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	05/23/2002
Comments:	Completed Five-Year Review. The site cap will now be inspected on a semi-annual basis and the groundwater will be monitored annually.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Date: 04/09/1997
Comments: O&M activiews for the postclosure period at the Site includes groundwater monitoring, laboratory analysis, cap inspection alnd maintenance, and reporting. Both GW monitoring and cap inspection will be performed quarterly during the first year, semiannuallly thereafter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/11/2000
Comments: Approved "Observation and Soil Sampling Report" for Site development for the IKEA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/26/1996
Comments: Approved Phase II design for placing the pavement at the site except a triangular area which Caltrans is using as a right of way for construction of Highway 80. This area will be paved after completion of Caltrans project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 04/21/1997
Comments: Completed Remedial Action for Phase II. Placed an asphalt cap on 7.0 acres of unpaved areas and installed three groundwater monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/27/1996
Comments: Approved Phase I design for excavation and removal of 3,200 cubic yards of contaminated soil, backfilling and capping and destruction of several wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/10/1996
Comments: Approved RAP requiring excavation of contaminated soils to industrial cleanup standards and backfilling with clean soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 01/29/1996
Comments: Recommended alternative is excavation of PCB and lead-impacted soil as well as soil containing TPH concentrations exceeding 26,000 mg/kg or exceeding 1,000 mg/kg diesel in two specific areas (totaling approximately 2,335 cy).

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

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Document Type: Monitoring Report
Completed Date: 09/13/2006
Comments: DTSC approved the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/05/2005
Comments: Cracks up to 3/8" observed at asphalt pavement patches over utility trenches. Cracks were also observed in areas where concrete meets asphalt pavement. Weeds and moss were observed growing between some of these cracks.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/25/1997
Comments: Completed Removal Action for Phase I.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 06/29/2004
Comments: Two groundwater monitoring wells were sampled (MW-8, MW-20) and three ground water monitoring wells (,W-9, MW-11, MW-21) were decommissioned. Groundwater monitoring and well closure were performed on April 22 and May 27, 2004, respectively in acccordance with the Workplan / Groundwater Sampling and Analysis Plan fror the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/08/1999
Comments: Approximately 30,000 cubic yards of clean soil will be imported, placed and compacted. Approximately 4,600 linear feet of trenches will be excaved for utility installation. Excavated soil that is impacted will be properly disposed of.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/04/2006
Comments: Approved. Cap requires minor repairs at 4 different location.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/01/2007
Comments: No DTSC approval letter was required. An April 20, 2007 cap inspection conducted by DTSC confirms that cap repairs were completed.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/10/2007

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Comments:	Document shows groundwater concentrations to be consistent with historic levels.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Report
Completed Date:	05/16/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	12/04/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	10/04/2002
Comments:	No maintenance of the cap needed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	04/30/2003
Comments:	Minor cracks and weeds were observed. The meed for maintenance will be reassessed during the October 2003 cap inspection.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	10/30/2003
Comments:	The cap appeared to be in satisfactory condition, and no maintenance is required at this time.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	03/10/2004
Comments:	The cap appeared to be in satisfactory condition, and maintenance is not required at this time.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	10/20/2004
Comments:	Cracks up to 0.5" with up to 2.0" of soil heaving observed to the south of the IKEA store. The bulges have already been marked for repair.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Long Term Monitoring Report
Completed Date:	05/25/2005
Comments:	Repair work are recommended at few locations shown in the attached map.

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/07/2006
Comments: Pending minor repair works, the cap appeared to be in satisfactory condition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/01/2007
Comments: Inspection included in completion of cap repair report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/16/2000
Comments: The cap appeared to be in a satisfactory condition. No erosion, animal burrows, settlement or ponded water observed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/25/2001
Comments: No damage to the cap or unusual conditions observed. No maintenance needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 11/27/2001
Comments: No damage to the asphalt cap observed and no maintenance needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/26/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/28/2008
Comments: Report finished. DTSC required that cap repairs be made within the next 30 days.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/16/2008
Comments: 13 areas requiring repairs identified. Repairs to take place within 30 days of receipt of approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/12/2009

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Comments:	The Cap Inspection Report identified nine (9) areas currently requiring repairs. According to the Operation and Maintenance Agreement, recommended cap repairs should be performed within 30 days after the damage has been observed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	05/11/2009
Comments:	The six areas of asphalt in the parking lot identified in the 2009 April inspection report has been repaired.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	08/06/1991
Comments:	Elevated levels of hydraulic oil and diesel found in groundwater.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	03/01/1987
Comments:	The Environmental Risk Assessment Report presents the soil sampling results for Parcel B and an evaluation of site risks.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	10/01/1987
Comments:	Elevated levels of lead and cadmium found at the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	08/01/1987
Comments:	Testing documented elevated TPH near fuel tank and asbestos containing materials.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	01/01/1988
Comments:	The Report presents the results of soil sampling on Parcels 1 and 2. The Report concluded that metals in soil, in particular lead, may require caution in land use and construction. Encapsulation of contaminated soil with impervious surfaces such as pavement or 18 inches of clean soil in landscaped areas was recommended.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	03/15/1988
Comments:	Summary of the limited environmental investigation conducted in conjunction with the removal of six underground storage tanks.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Document Type: Operations and Maintenance Report
Completed Date: 10/01/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 10/26/2012
Comments: This Plan details the handling of contaminated soils within the Caltrans Route 80 Bikeway Pathway Project, which includes portions of the IKEA, Shellmound Street and Former Oakland Army Base/Oakland Gateway Development Sites.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/19/2013
Comments: Revised soil management plan for the bikeway project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/28/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/15/2011
Comments: Overall, the roadway, sidewalks and parking lots appeared to be in good condition. Cracking was observed along the parking lot near the southeast corner of the parking structure. The Site continues to be the location of the IKEA retail furniture store, and this use remains consistent with the conditions of the Covenant to Restrict Use of Property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/30/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/30/2008
Comments: Inspection noted no problems. RP repaired cracks noted in their report on April 11, 2008

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2010
Comments: The Site continues to function as the location of the IKEA retail furniture store, and this use remains consistent with the conditions of the Covenant to Restrict Use of Property. Overall, the roadway, sidewalks and parking lots appeared to be in good condition, with no

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

significant cracks or signs of damage or disturbance.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 10/14/1997
Comments: Signed O&M Agreement with Barbary Coast Steel for long term ground water monitoring program.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/28/1997
Comments: Recorded Deed Restriction limiting site to commercial/industrial use only.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/14/2009
Comments: Cracks were observed along the roadway near the southeast corner of the parking lot structure. However, overall, the roadway, sidewalks and parking lots appeared to be in good condition, with no other significant cracks or signs of damage or disturbance. The Site continues to function as the location of the IKEA retail furniture store, and this use remains consistent with the conditions of the Covenant to Restrict Use of Property. The cracks observed along the roadway near the southeast corner of the parking structure should be repaired.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/17/2007
Comments: No problems were noted during the inspection.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/01/2012
Comments: DTSC conducted its annual site visit to check the condition of the paved surfaces that cover contaminated soil and to verify compliance with the restrictions and requirements of the Land Use Covenant. Cracks noted in inspection record should be repaired. The rest of the cracks noted in the inspection record were minor and the roadway, sidewalks and parking lots appeared to be in good condition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 08/30/2000
Comments: Operation and Maintenance Plan and Maintenance Agreement was signed on August 30, 2000.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Cost Recovery Settlements/Decrees

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Date: 03/13/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Prospective Purchaser Agreement
Completed Date: 10/07/1997
Comments: Signed PPA with IKEA requiring a Soil Management Plan to be approved by DTSC prior to any alteration of the site cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 06/10/1996
Comments: Negative Declaration was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 09/19/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/25/1994
Comments: Amended IS&E Order to modify the description of the Site covered under the order. A portion of the site was taken by Caltrans for the reconstruction of the Cypress freeway. This agreement states that Caltrans will be responsible for soil and Barbary Coast will be responsible for the underlying groundwater. Also a portion of the site was taken by the City of Emeryville for realignment of Shellmound Street.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 03/22/1993
Comments: Consent order issued to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/14/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/12/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/15/2005
Comments: Minor cracks were observed, which will be repaired during the month

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

of September/October 2004.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/16/2006
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2017
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2020
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 05/14/2013
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 15.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01440005
Site Code: 201062
Assembly: 18
Senate: 09
Special Program: Not reported
Status: Certified / Operation & Maintenance
Status Date: 09/19/2000
Restricted Use: YES
Site Mgmt. Req.: ASP, FOUN, DAY, ELD, HOS, LUC, MON, EX, RES
Funding: Responsible Party
Latitude: 37.82950
Longitude: -122.2918
APN: 007 061800108, 007 061800619, 007 061800621, 007 061800625, 049 061700110, 049 061700212, 49-617-1-10, 49-617-2-12
Past Use: MANUFACTURING - METAL, MANUFACTURING - OTHER
Potential COC: Lead, Polychlorinated biphenyls (PCBs, TPH-diesel
Confirmed COC: Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Polychlorinated biphenyls (PCBs, TPH-diesel, Lead
Potential Description: OTH, SOIL
Alias Name: BARBARY COAST STEEL
Alias Type: Alternate Name

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Alias Name:	IKEA
Alias Type:	Alternate Name
Alias Name:	IKEA Property, Inc.
Alias Type:	Alternate Name
Alias Name:	JUDSON STEEL
Alias Type:	Alternate Name
Alias Name:	007 061800108
Alias Type:	APN
Alias Name:	007 061800619
Alias Type:	APN
Alias Name:	007 061800621
Alias Type:	APN
Alias Name:	007 061800625
Alias Type:	APN
Alias Name:	049 061700110
Alias Type:	APN
Alias Name:	049 061700212
Alias Type:	APN
Alias Name:	49-617-1-10
Alias Type:	APN
Alias Name:	49-617-2-12
Alias Type:	APN
Alias Name:	110033615078
Alias Type:	EPA (FRS #)
Alias Name:	T0600100361
Alias Type:	GeoTracker Global ID
Alias Name:	200312
Alias Type:	Project Code (Site Code)
Alias Name:	201062
Alias Type:	Project Code (Site Code)
Alias Name:	01440005
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	01/02/2008
Comments:	The report recommends continued cap inspections and closure of the two existing monitoring wells. Contaminants in groundwater, mainly petroleum hydrocarbons, continue to remain well below the cleanup levels.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	05/23/2002
Comments:	Completed Five-Year Review. The site cap will now be inspected on a semi-annual basis and the groundwater will be monitored annually.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	04/09/1997
Comments:	O&M activiews for the postclosure period at the Site includes groundwater monitoring, laboratory analysis, cap inspection alnd maintenance, and reporting. Both GW monitoring and cap inspection will be performed quarterly during the first year, semiannuallly

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

thereafter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 02/11/2000
Comments: Approved "Observation and Soil Sampling Report" for Site development for the IKEA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/26/1996
Comments: Approved Phase II design for placing the pavement at the site except a triangular area which Caltrans is using as a right of way for construction of Highway 80. This area will be paved after completion of Caltrans project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 04/21/1997
Comments: Completed Remedial Action for Phase II. Placed an asphalt cap on 7.0 acres of unpaved areas and installed three groundwater monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/27/1996
Comments: Approved Phase I design for excavation and removal of 3,200 cubic yards of contaminated soil, backfilling and capping and destruction of several wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/10/1996
Comments: Approved RAP requiring excavation of contaminated soils to industrial cleanup standards and backfilling with clean soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 01/29/1996
Comments: Recommended alternative is excavation of PCB and lead-impacted soil as well as soil containing TPH concentrations exceeding 26,000 mg/kg or exceeding 1,000 mg/kg diesel in two specific areas (totaling approximately 2,335 cy).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/13/2006
Comments: DTSC approved the report.

Completed Area Name: PROJECT WIDE

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/05/2005
Comments: Cracks up to 3/8" observed at asphalt pavement patches over utility trenches. Cracks were also observed in areas where concrete meets asphalt pavement. Weeds and moss were observed growing between some of these cracks.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/25/1997
Comments: Completed Removal Action for Phase I.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 06/29/2004
Comments: Two groundwater monitoring wells were sampled (MW-8, MW-20) and three ground water monitoring wells (,W-9, MW-11, MW-21) were decommissioned. Groundwater monitoring and well closure were performed on April 22 and May 27, 2004, respectively in acccordance with the Workplan / Groundwater Sampling and Analysis Plan fror the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 01/08/1999
Comments: Approximately 30,000 cubic yards of clean soil will be imported, placed and compacted. Approximately 4,600 linear feet of trenches will be excaved for utility installation. Excavated soil that is impacted will be properly disposed of.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/04/2006
Comments: Approved. Cap requires minor repairs at 4 different location.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/01/2007
Comments: No DTSC approval letter was required. An April 20, 2007 cap inspection conducted by DTSC confirms that cap repairs were completed. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/10/2007
Comments: Document shows groundwater concentrations to be consistent with historic levels.

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

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Document Type: Well Decommissioning Report
Completed Date: 05/16/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/04/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/04/2002
Comments: No maintenance of the cap needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/30/2003
Comments: Minor cracks and weeds were observed. The meed for maintenance will be reassessed during the October 2003 cap inspection.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/30/2003
Comments: The cap appeared to be in satisfactory condition, and no maintenance is required at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/10/2004
Comments: The cap appeared to be in satisfactory condition, and maintenance is not required at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/20/2004
Comments: Cracks up to 0.5" with up to 2.0" of soil heaving observed to the south of the IKEA store. The bulges have already been marked for repair.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/25/2005
Comments: Repair work are recommended at few locations shown in the attached map.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/07/2006
Comments: Pending minor repair works, the cap appeared to be in satisfactory

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

condition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/01/2007
Comments: Inspection included in completion of cap repair report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/16/2000
Comments: The cap appeared to be in a satisfactory condition. No erosion, animal burrows, settlement or ponded water observed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/25/2001
Comments: No damage to the cap or unusual conditions observed. No maintenance needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 11/27/2001
Comments: No damage to the asphalt cap observed and no maintenance needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 11/26/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/28/2008
Comments: Report finished. DTSC required that cap repairs be made within the next 30 days.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/16/2008
Comments: 13 areas requiring repairs identified. Repairs to take place within 30 days of receipt of approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/12/2009
Comments: The Cap Inspection Report identified nine (9) areas currently requiring repairs. According to the Operation and Maintenance Agreement, recommended cap repairs should be performed within 30 days after the damage has been observed.

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/11/2009
Comments: The six areas of asphalt in the parking lot identified in the 2009 April inspection report has been repaired.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 08/06/1991
Comments: Elevated levels of hydraulic oil and diesel found in groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/01/1987
Comments: The Environmental Risk Assessment Report presents the soil sampling results for Parcel B and an evaluation of site risks.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/01/1987
Comments: Elevated levels of lead and cadmium found at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 08/01/1987
Comments: Testing documented elevated TPH near fuel tank and asbestos containing materials.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/01/1988
Comments: The Report presents the results of soil sampling on Parcels 1 and 2. The Report concluded that metals in soil, in particular lead, may require caution in land use and construction. Encapsulation of contaminated soil with impervious surfaces such as pavement or 18 inches of clean soil in landscaped areas was recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/15/1988
Comments: Summary of the limited environmental investigation conducted in conjunction with the removal of six underground storage tanks.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/01/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 10/26/2012
Comments: This Plan details the handling of contaminated soils within the Caltrans Route 80 Bikeway Pathway Project, which includes portions of the IKEA, Shellmound Street and Former Oakland Army Base/Oakland Gateway Development Sites.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/19/2013
Comments: Revised soil management plan for the bikeway project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 08/28/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/15/2011
Comments: Overall, the roadway, sidewalks and parking lots appeared to be in good condition. Cracking was observed along the parking lot near the southeast corner of the parking structure. The Site continues to be the location of the IKEA retail furniture store, and this use remains consistent with the conditions of the Covenant to Restrict Use of Property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/30/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/30/2008
Comments: Inspection noted no problems. RP repaired cracks noted in their report on April 11, 2008

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2010
Comments: The Site continues to function as the location of the IKEA retail furniture store, and this use remains consistent with the conditions of the Covenant to Restrict Use of Property. Overall, the roadway, sidewalks and parking lots appeared to be in good condition, with no significant cracks or signs of damage or disturbance.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Date: 10/14/1997
Comments: Signed O&M Agreement with Barbary Coast Steel for long term ground water monitoring program.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 05/28/1997
Comments: Recorded Deed Restriction limiting site to commercial/industrial use only.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/14/2009
Comments: Cracks were observed along the roadway near the southeast corner of the parking lot structure. However, overall, the roadway, sidewalks and parking lots appeared to be in good condition, with no other significant cracks or signs of damage or disturbance. The Site continues to function as the location of the IKEA retail furniture store, and this use remains consistent with the conditions of the Covenant to Restrict Use of Property. The cracks observed along the roadway near the southeast corner of the parking structure should be repaired.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/17/2007
Comments: No problems were noted during the inspection.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/01/2012
Comments: DTSC conducted its annual site visit to check the condition of the paved surfaces that cover contaminated soil and to verify compliance with the restrictions and requirements of the Land Use Covenant. Cracks noted in inspection record should be repaired. The rest of the cracks noted in the inspection record were minor and the roadway, sidewalks and parking lots appeared to be in good condition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 08/30/2000
Comments: Operation and Maintenance Plan and Maintenance Agreement was signed on August 30, 2000.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Cost Recovery Settlements/Decrees
Completed Date: 03/13/1997
Comments: Not reported

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

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Document Type: Prospective Purchaser Agreement
Completed Date: 10/07/1997
Comments: Signed PPA with IKEA requiring a Soil Management Plan to be approved by DTSC prior to any alteration of the site cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 06/10/1996
Comments: Negative Declaration was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 09/19/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 08/25/1994
Comments: Amended IS&E Order to modify the description of the Site covered under the order. A portion of the site was taken by Caltrans for the reconstruction of the Cypress freeway. This agreement states that Caltrans will be responsible for soil and Barbary Coast will be responsible for the underlying groundwater. Also a portion of the site was taken by the City of Emeryville for realignment of Shellmound Street.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 03/22/1993
Comments: Consent order issued to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/14/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/12/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/15/2005
Comments: Minor cracks were observed, which will be repaired during the month of September/October 2004.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Date:	05/16/2006
Comments:	Not reported
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Report
Future Due Date:	2017
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Report
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Report
Future Due Date:	2020
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	05/14/2013
Schedule Revised Date:	Not reported

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	4.6
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01330040
Site Code:	200496
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	10/01/1996
Restricted Use:	YES
Site Mgmt. Req.:	DAY, ELD, HOS, LUC, EX, NOWN, NDAM, RES
Funding:	Responsible Party
Latitude:	37.83112
Longitude:	-122.2932
APN:	049-0617-002-06, 49-617-2-6
Past Use:	MANUFACTURING - METAL
Potential COC:	Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Polychlorinated biphenyls (PCBs, TPH-diesel, Lead, Lead
Confirmed COC:	Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Polychlorinated biphenyls (PCBs, TPH-diesel, Lead, Lead, Lead
Potential Description:	SOIL
Alias Name:	BAY/SHELLMOUND/40TH STREET
Alias Type:	Alternate Name
Alias Name:	Emeryville, City of / 40th Street Overhead Projects
Alias Type:	Alternate Name
Alias Name:	SHELLMOUND/40TH STREET
Alias Type:	Alternate Name
Alias Name:	Shellmound Street Extension
Alias Type:	Alternate Name

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Alias Name: 049-0617-002-06
Alias Type: APN
Alias Name: 49-617-2-6
Alias Type: APN
Alias Name: 110033608380
Alias Type: EPA (FRS #)
Alias Name: 200496
Alias Type: Project Code (Site Code)
Alias Name: 01330040
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 10/01/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/01/2010
Comments: The Site includes an embankment and part of Shellmound Street roadway near the IKEA parking area and part of the Shellmound Street roadway near the Marriott Courtyard Hotel. DTSC visited the Site and observed that the embankment and roadway appeared to be in good condition. There was no evidence of any activity prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/16/2009
Comments: The site includes an embankment and part of Shellmound Street roadway near the IKEA parking area and part of Shellmound Street roadway near the Marriott Courtyard Hotel. The embankment and roadway appeared to be in good condition. There was no evidence of any activity prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/12/1997
Comments: Second amendment covering payment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 05/07/1996
Comments: First amendment executed to expand the area covered under the VCA.

Completed Area Name: PROJECT WIDE

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Amendment
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/07/2008
Comments: The embankment and roadway appeared to be in good condition. DTSC concludes that current site condition remain protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/29/2007
Comments: The embankment and roadway appeared to be in good condition. There was no evidence of any activity prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 04/12/1994
Comments: VCA fully executed to oversee the investigation and any cleanup required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/19/2011
Comments: DTSC conducted an annual inspection that also served as the site inspection for the Five-Year Review. The embankment and roadway over residual lead-contaminated were observed to be in generally good condition. During the inspection it was observed that a section of the Shellmound Street roadway near the Marriot Hotel needs repaired, and a follow-up letter was sent to the City of Emeryville .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/26/2006
Comments: Five-year review report completed. Remedial action taken remain protective..

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/26/2001
Comments: Completed Five-Year Review.

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 09/26/1996
Comments: Approved O&M Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/05/1996
Comments: Completed RA for the Shellmound Street. About 8000 cubic yards of contaminated soil were excavated and treated on-site with dry reagents and an asphaltic emulsion mixture on-site. The treated soil was used as roadway. Approximately 113,000 gallons of groundwater were collected, treated and disposed to the sanitary sewer.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/22/1995
Comments: Completed RA for the 40th Street Overhead Bridge. Approximately 300 cubic yards of soils were excavated and disposed off-site. The remaining 5,700 cubic yards were encapsulated within an 18-inch thick clay blanket within the embankment and an additional 2 to 5 feet of clean fill was placed on top.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/19/2011
Comments: DTSC completed a Five-Year Review and concluded that the remedy implemented a the site (a cap over contaminated soil and land use restrictions) remains protective of human health and the environment. During the inspection it was observed that a section of the Shellmound Street roadway near the Marriot Hotel needs repaired, and a follow-up letter was sent to the City of Emeryville .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/29/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 10/26/2012
Comments: This Plan details the handling of contaminated soils within the Caltrans Route 80 Bikeway Pathway Project, which includes portions of the IKEA, Shellmound Street and Former Oakland Army Base/Oakland Gateway Development Sites.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 03/19/2013
Comments: Soil management plan for the Bikeway project

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 09/30/1996
Comments: Signed O&M Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/28/1996
Comments: Recorded Deed Restriction limiting use of site as street and prohibiting soil disturbance without an approved Soil Management Plan.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/01/1996
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2016
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01330043
Site Code: 200488
Assembly: 15
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Certified
Status Date: 06/20/1996
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.83353
Longitude: -122.2938
APN: NONE SPECIFIED
Past Use: MANUFACTURING - METAL
Potential COC: Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Polychlorinated biphenyls (PCBs, TPH-diesel, Lead, Lead, Lead, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel
Confirmed COC: Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Polychlorinated

IKEA (FORMER BARBARY COAST) (Continued) **S102008194**

biphenyls (PCBs, TPH-diesel, Lead, Lead, Lead, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel

Potential Description: SOIL
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: 110033606239
Alias Type: EPA (FRS #)
Alias Name: 200488
Alias Type: Project Code (Site Code)
Alias Name: 01330043
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/22/1996
Comments: Removal Action completed. Excavated and hauled off for disposal lead and TPH contaminated soil as part of construction of new sewer line. Any groundwater encountered was treated and disposed by sewer.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/22/1995
Comments: Removal Action completed. Excavated and hauled offsite lead and TPH contaminated soils as part of the construction of a box culvert for new East Bay Municipal Utility sewer line. Any groundwater encountered was treated and disposed by sewer.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/20/1996
Comments: Site certified. Groundwater remediation covered under Barbary Coast remediation.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

P75 **ESPRESSO ROMA / LOUSIGHT PROPERTIES** **HIST CORTESE** **S103628006**
ESE **1310 65TH ST** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **Alameda County CS**
0.308 mi.
1627 ft. **Site 1 of 4 in cluster P**

Relative:
Higher

Actual:
27 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA

ESPRESSO ROMA / LOUSIGHT PROPERTIES (Continued) **S103628006**

Reg Id: 3004

LUST:

Region:	STATE
Global Id:	T10000000366
Latitude:	37.845051
Longitude:	-122.295366
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/28/2008
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SP
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
LOC Case Number:	RO0002980
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

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

Contact:

Global Id:	T10000000366
Contact Type:	Local Agency Caseworker
Contact Name:	STEVEN PLUNKETT
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5103831767

Status History:

Global Id:	T10000000366
Status:	Completed - Case Closed
Status Date:	09/28/2008
Global Id:	T10000000366
Status:	Open - Case Begin Date
Status Date:	10/17/2007
Global Id:	T10000000366
Status:	Open - Site Assessment
Status Date:	02/05/2008

Regulatory Activities:

Global Id:	T10000000366
Action Type:	ENFORCEMENT
Date:	09/29/2008
Action:	Closure/No Further Action Letter - #20080929
Global Id:	T10000000366
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

ESPRESSO ROMA / LOUSIGHT PROPERTIES (Continued) **S103628006**

Global Id: T10000000366
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T10000000366
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0002980
PE: 5602

Status: Case Closed
Record Id: RO0002980
PE: 5602

Q76 **GEO M MARTIN COMPANY** **HIST CORTESE** **S105023664**
ENE **1308 65TH** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **Alameda County CS**
0.310 mi.
1636 ft. **Site 1 of 2 in cluster Q**

Relative:
Higher

Actual:
33 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2191

LUST:
Region: STATE
Global Id: T0600102013
Latitude: 37.849367
Longitude: -122.291065
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/31/1997
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: BO
Local Agency: Not reported
RB Case Number: 01-2191
LOC Case Number: RO0000747
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

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

Contact:
Global Id: T0600102013
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)

GEO M MARTIN COMPANY (Continued) **S105023664**

Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600102013
Status: Completed - Case Closed
Status Date: 12/31/1997

Global Id: T0600102013
Status: Open - Case Begin Date
Status Date: 09/25/1996

Regulatory Activities:
Global Id: T0600102013
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600102013
Action Type: REMEDIATION
Date: 01/01/1950
Action: Not reported

LUST REG 2:
Region: 2
Facility Id: 01-2191
Facility Status: Preliminary site assessment underway
Case Number: 318
How Discovered: Tank Closure
Leak Cause: Corrosion
Leak Source: Tank
Date Leak Confirmed: 11/11/1996
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000747
PE: 5602

R77 **RIX INDUSTRIES-FRANK DEWOLF** **HIST CORTESE** **1000119978**
SE **6460 HOLLIS ST** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **CA FID UST**
0.313 mi. **SLIC**
1655 ft. **Site 1 of 3 in cluster R** **Alameda County CS**
SWEEPS UST

Relative:
Higher

Actual:
23 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1916

LUST REG 2:
Region: 2
Facility Id: 01-1916
Facility Status: Preliminary site assessment underway
Case Number: 376
How Discovered: Subsurface Monitoring
Leak Cause: UNK
Leak Source: Piping
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 9/1/1994
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01002469
Regulated By: UTNKA
Regulated ID: CAC941635
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4156585275
Mail To: Not reported
Mailing Address: 3 THE PARADE
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94564
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Facility ID: 01002469
Regulated By: UTNKA
Regulated ID: 00065207
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4153963063
Mail To: Not reported
Mailing Address: PFS REAL EST 6939 42
Mailing Address 2: Not reported

RIX INDUSTRIES-FRANK DEWOLF (Continued) **1000119978**

Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 07/01/1998
Global Id: T0600101776
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0000062
Latitude: 37.845904
Longitude: -122.290241
Case Type: Cleanup Program Site
Case Worker: BJJ
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1916
File Location: Stored electronically as an E-file
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Ten USTs chemical and used oil underground storage tanks were located on-site from the previous paint formulation plant that occupied the property prior to RIX Industries. In June 1992, investigation began with the installation of three monitoring wells. Elevated petroleum hydrocarbons (TPHg, TPHd, TPHms, TPHk, Oil and Grease) and solvents (acetone, isopropanol, MEK, MIBK, TCE, PCE, 1,2-DCE) were detected in the wells. On July 30, 1994, five USTs were closed in place because they were located beneath the building. The remaining 5 USTs were removed in December 1994.

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

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000062
PE: 5602

SWEEPS UST:
Status: Active
Comp Number: 65207
Number: 9
Board Of Equalization: 44-000701
Referral Date: 02-16-93
Action Date: 02-16-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 1
Swrcb Tank Id: 01-000-065207-000001
Actv Date: 07-01-85
Capacity: Not reported
Tank Use: M.V. FUEL

RIX INDUSTRIES-FRANK DEWOLF (Continued) **1000119978**

Stg: P
Content: UNKNOWN
Number Of Tanks: 1

S78 **TRANSO ENVELOPE CO.** **SLIC** **U001599319**
South **1600 64TH ST** **Alameda County CS** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **HIST UST**
0.314 mi.
1660 ft. **Site 1 of 3 in cluster S**

Relative:
Lower

Actual:
12 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/05/2009
Global Id:	SLT2O05460
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.844012
Longitude:	-122.293759
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	SLT2O05460
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

Alameda County CS:

Status:	11
Record Id:	RO0002847
PE:	5502

HIST UST:

Region:	STATE
Facility ID:	00000063811
Facility Type:	Other
Other Type:	ALCOHOL
Total Tanks:	0001
Contact Name:	E. KOEHLER
Telephone:	4159816666
Owner Name:	ARREY CORPORATION
Owner Address:	3542 N. KIMBALL AVE.
Owner City,St,Zip:	CHICAGO, IL 60618
Tank Num:	001
Container Num:	1
Year Installed:	1970
Tank Capacity:	00000300
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Tank Construction:	Not reported
Leak Detection:	None

S79 **TRANSOL LANCOSTE SITE** **SLIC** **S101641319**
South **1600 64TH ST** **N/A**
1/4-1/2 **EMERYVILLE, CA**
0.314 mi.
1660 ft. **Site 2 of 3 in cluster S**

Relative:
Lower

Actual:
12 ft.

SLIC REG 2:

Region:	2
Facility ID:	SLT2O05460
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

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80 **UNION OIL CO, CALIF.** **HIST CORTESE** **S101580158**
NE **901 ASHBY AVE** **LUST** **N/A**
1/4-1/2 **BERKELEY, CA 94710** **CA FID UST**
0.316 mi. **SLIC**
1668 ft. **SWEEPS UST**
WDS

Relative:
Higher

Actual:
33 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1444

LUST:

Region:	STATE
Global Id:	T0600101333
Latitude:	37.8512702370004
Longitude:	-122.290894389153
Case Type:	LUST Cleanup Site
Status:	Open - Verification Monitoring
Status Date:	05/30/2006
Lead Agency:	SWRCB
Case Worker:	MC
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-1444
LOC Case Number:	TT01-1444
File Location:	Local Agency
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:	T0600101333
Contact Type:	Regional Board Caseworker
Contact Name:	MATTHEW COHEN

UNION OIL CO, CALIF. (Continued) **S101580158**

Organization Name: SWRCB
Address: 1001 I Street
City: SACRAMENTO
Email: mcohen@waterboards.ca.gov
Phone Number: 9163415751

Global Id: T0600101333
Contact Type: Regional Board Caseworker
Contact Name: CHUCK HEADLEE
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cheadlee@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101333
Contact Type: Local Agency Caseworker
Contact Name: GEOFFERY FIEDLER
Organization Name: BERKELEY, CITY OF
Address: 2118 MILVIA STREET 3RD FLOOR
City: BERKELEY
Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Status History:
Global Id: T0600101333
Status: Open - Case Begin Date
Status Date: 05/08/1986

Global Id: T0600101333
Status: Open - Remediation
Status Date: 10/14/1986

Global Id: T0600101333
Status: Open - Remediation
Status Date: 08/17/1988

Global Id: T0600101333
Status: Open - Remediation
Status Date: 04/23/2004

Global Id: T0600101333
Status: Open - Site Assessment
Status Date: 05/08/1986

Global Id: T0600101333
Status: Open - Site Assessment
Status Date: 11/08/1986

Global Id: T0600101333
Status: Open - Verification Monitoring
Status Date: 05/30/2006

Regulatory Activities:
Global Id: T0600101333
Action Type: Other

UNION OIL CO, CALIF. (Continued) **S101580158**

Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101333
Action Type: ENFORCEMENT
Date: 06/04/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101333
Action Type: ENFORCEMENT
Date: 05/22/2012
Action: Petition Submitted for Review

Global Id: T0600101333
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T0600101333
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101333
Action Type: ENFORCEMENT
Date: 01/06/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101333
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1444
Facility Status: Remedial action (cleanup) Underway
Case Number: 01-1444
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 5/8/1986
Pollution Characterization Began: 11/8/1986
Pollution Remediation Plan Submitted: 10/14/1986
Date Remediation Action Underway: 4/23/2004
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01001558
Regulated By: UTNKA
Regulated ID: 00012769
Cortese Code: Not reported

UNION OIL CO, CALIF. (Continued) **S101580158**

SIC Code: Not reported
Facility Phone: 4158436809
Mail To: Not reported
Mailing Address: 2175 NORTH CALIFORNIA ST
Mailing Address 2: Not reported
Mailing City,St,Zip: BERKELEY 94710
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SLIC REG 2:
Region: 2
Facility ID: 01S0173
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: 1/29/1997
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Region: 2
Facility ID: SLT2O02834
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Status: Active
Comp Number: 12769
Number: 1
Board Of Equalization: 44-000051
Referral Date: 08-26-93
Action Date: 08-26-93
Created Date: 02-29-88
Tank Status: A

UNION OIL CO, CALIF. (Continued) **S101580158**

Owner Tank Id: 24302-1-0
Swrcb Tank Id: 01-020-012769-000001
Actv Date: 08-23-93
Capacity: 12000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 12769
Number: 1
Board Of Equalization: 44-000051
Referral Date: 08-26-93
Action Date: 08-26-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 24302-2-0
Swrcb Tank Id: 01-020-012769-000002
Actv Date: 08-23-93
Capacity: 12000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 12769
Number: 1
Board Of Equalization: 44-000051
Referral Date: 08-26-93
Action Date: 08-26-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 24302 -3-0
Swrcb Tank Id: 01-020-012769-000003
Actv Date: 08-23-93
Capacity: 12000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 12769
Number: 1
Board Of Equalization: 44-000051
Referral Date: 08-26-93
Action Date: 08-26-93
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 24302 -4-0
Swrcb Tank Id: 01-020-012769-000004
Actv Date: 08-23-93
Capacity: 12000
Tank Use: M.V. FUEL
Stg: P

UNION OIL CO, CALIF. (Continued) **S101580158**

Content: DIESEL
Number Of Tanks: Not reported

CA WDS:
Facility ID: San Francisco Bay 019255001
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAG912002 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 9252772384
Facility Contact: David Dewitt
Agency Name: CONOCOPHILLIPS
Agency Address: 2000 CROW CANYON PL STE 400
Agency City,St,Zip: SAN RAMON 94583
Agency Contact: DAVE DEWITT
Agency Telephone: 9252772384
Agency Type: Private
SIC Code: 5541
SIC Code 2: Not reported
Primary Waste: Contaminated Ground Water
Primary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The facility is not a POTW.
Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

T81 **CAMP ASHBY** **FUDS** **1007211901**
NE **N/A**
1/4-1/2 **BERKELEY, CA**
0.319 mi.
1686 ft. **Site 1 of 2 in cluster T**

Relative:
Higher

Actual:
32 ft.

FUDS:
Federal Facility ID: CA9799F5706
FUDS #: J09CA0765
INST ID: 57283
Facility Name: CAMP ASHBY
City: BERKELEY
State: CA
EPA Region: 09

CAMP ASHBY (Continued) **1007211901**

County:	ALAMEDA
Congressional District:	09
US Army District:	Sacramento District (SPK)
Fiscal Year:	2011
Telephone:	916-557-7461
NPL Status:	Not Listed
RAB:	Not reported
CTC:	15
Current Owner:	PRIVATE
Current Prog:	Not reported
Future Prog:	Not reported
Description:	The 13.53-acres site is located in the vicinity of Ashby Ave. & 7th St. in the City of Berkeley, Alameda County, CA. The site is now built-over and occupied by numerous private businesses, both commercial & industrial. Examination of the streets and buildings did not identify any remains of Camp Ashby. On 1 January 1942, 12.65 leased acres and 0.88 permit acres were acquired from private owners, the State of California and the City of Berkeley for the San Francisco Port of Embarkation in the 6th Army Area. The total acreage acquired was 13.53. The leases terminated between 1 January 1942 and 11 October 1946. The permit terminated on 11 Oct 1946. The site was used as a military police installation. There are no potential hazards currently identified at this site.

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82 **SIMEON - 64TH STREET PROPERTIES** **SLIC** **S106235217**
SSE **1480 64TH STREET** **N/A**
1/4-1/2 **EMERYVILLE, CA**
0.320 mi.
1692 ft.

Relative:
Lower

Actual:
16 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	07/06/2010
Global Id:	SL20259877
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.8445394
Longitude:	-122.2918404
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01S0425
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Benzene, Other Petroleum
Site History:	FORMERLY KNOWN AS SYBASE PROPERTIES with address of 1410/1450 64th Street. Location of former oil refinery. TPH-related contaminants in soil and groundwater. Following removal of underground storage tanks, a risk management plan was implemented in 1999 to limit potential exposures to residual TPH in groundwater. Site was redeveloped in 2000 as a multi-story parking structure and office space. Discharger is responsible to submit bi-annual Cap Status Report.

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

SLIC REG 2:
Region: 2

SIMEON - 64TH STREET PROPERTIES (Continued) **S106235217**

Facility ID: SL20259877
Facility Status: Not reported
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

R83 **SUPERGEN** **SLIC** **S108246093**
SE **6450 HOLLIS ST** **Alameda County CS** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.321 mi.
1693 ft. **Site 2 of 3 in cluster R**

Relative:
Higher

Actual:
23 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 09/27/1997
Global Id: T06019726533
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0002695
Latitude: 37.845426
Longitude: -122.290522
Case Type: Cleanup Program Site
Case Worker: ML
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: NA
File Location: Stored electronically as an E-file
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

Alameda County CS:
Status: Case Closed
Record Id: RO0002695
PE: 5502

T84 **CAMP ASHBY** **ENVIROSTOR** **S107736007**
NE **N/A**
1/4-1/2 **BERKELEY, CA**
0.322 mi.
1701 ft. **Site 2 of 2 in cluster T**

Relative:
Higher

Actual:
33 ft.

ENVIROSTOR:

Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	13.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Carrie Tatoian-Cain
Division Branch:	Cleanup Sacramento
Facility ID:	80000378
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	No Further Action
Status Date:	09/13/2012
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	DERA
Latitude:	37.85166
Longitude:	-122.2916
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED, NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F570600
Alias Type:	Federal Facility ID
Alias Name:	J09CA0765
Alias Type:	INPR
Alias Name:	80000378
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Department of Defense Action Indicated (NDAI)
Completed Date:	09/13/2012
Comments:	This determination is based on information in DTSC?s and the Water Boards? possession at this time concerning Department of Defense (DoD) activities on the sites listed above. DTSC and the Water Boards reserve the right to address any appropriate environmental or human health related issue, should additional information concerning the environmental condition of these sites become available in the future.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

CAMP ASHBY (Continued) **S107736007**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

U85 **LIQUID SUGARS INC** **LUST** **S107619840**
East **1275 66TH ST** **Alameda County CS** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.323 mi.
1705 ft. **Site 1 of 4 in cluster U**

Relative:
Higher

Actual:
31 ft.

LUST:

Region:	STATE
Global Id:	T0600100842
Latitude:	37.848073
Longitude:	-122.289621
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/07/2001
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0917
LOC Case Number:	RO0000011
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Not reported

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

Contact:

Global Id:	T0600100842
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100842
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0600100842
Status:	Completed - Case Closed
Status Date:	09/07/2001

Global Id:	T0600100842
Status:	Open - Case Begin Date
Status Date:	11/02/1990

LIQUID SUGARS INC (Continued) **S107619840**

Regulatory Activities:

Global Id:	T0600100842
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0600100842
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Excavation
Global Id:	T0600100842
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000011
PE:	5602

P86 **OAKLAND DIESEL FACILITY** **HIST CORTESE** **S100940966**
ESE **1301 65TH ST** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **Alameda County CS**
0.323 mi.
1706 ft. **Site 2 of 4 in cluster P**

Relative:
Higher

Actual:
28 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0753

LUST:

Region:	STATE
Global Id:	T0600100694
Latitude:	37.8469449
Longitude:	-122.2906029
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/17/1995
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0753
LOC Case Number:	RO0000660
File Location:	Stored electronically as an E-file
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:	T0600100694
Contact Type:	Regional Board Caseworker

OAKLAND DIESEL FACILITY (Continued) **S100940966**

Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100694
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0600100694
Status:	Completed - Case Closed
Status Date:	11/17/1995

Global Id:	T0600100694
Status:	Open - Case Begin Date
Status Date:	07/15/1988

Regulatory Activities:

Global Id:	T0600100694
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0600100694
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Excavation

LUST REG 2:

Region:	2
Facility Id:	01-0753
Facility Status:	Case Closed
Case Number:	363
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	6/8/1988
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

OAKLAND DIESEL FACILITY (Continued) **S100940966**

Status: Case Closed
Record Id: RO0000660
PE: 5602

V87 **SEVENTH STREET PROPERTIES II** **HIST Cal-Sites** **S102008151**
North **700 HEINZ AVENUE** **HIST CORTESE** **N/A**
1/4-1/2 **BERKELEY, CA 94704** **LUST**
0.325 mi. **RESPONSE**
1714 ft. **Site 1 of 4 in cluster V** **EMI**
ENVIROSTOR

Relative:
Higher

Actual:
27 ft.

Calsite:

Facility ID:	01200019
Region:	2
Region Name:	BERKELEY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	02281988
Status:	CERTIFIED OPERATION AND MAINTENANCE, ALL PLANNED ACTIVITIES IMPLEMENTED, REMEDIATION CONTINUES
Status Name:	CERTIFIED / OPERATION & MAINTENANCE
Lead Agency:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	RP
Type Name:	RESPONSIBLE PARTY
NPL:	Not Listed
SIC Code:	20
SIC Name:	MANU - FOOD & KINDRED PRODUCTS
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
Staff Member Responsible for Site:	JSOTO
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	14
State Senate District Code:	09
Facility ID:	01200019
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08301986
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01200019
Activity:	DES
Activity Name:	DESIGN
AWP Code:	1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10301987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01200019
Activity:	FRA
Activity Name:	FINAL REMEDIAL ACTION
AWP Code:	1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10301987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Unknown Type:	0
Facility ID:	01200019
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10301987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01200019
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02281988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	6
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01200019
Activity:	5YEAR
Activity Name:	FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12161997

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01200019
Activity:	5YEAR
Activity Name:	FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02272003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01200019
Activity:	5YEAR
Activity Name:	FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312006
Revised Due Date:	02272008
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 2900 5TH ST.
Alternate City,St,Zip: BERKELEY, CA 94710
Alternate Address: 700 HEINZ AVENUE
Alternate City,St,Zip: BERKELEY, CA 94710
Background Info: The property was occupied by a vegetable oil company from 1916 to 1984. In 1985, Wareham Development purchased the site and found tanks and sumps containing nickel, acids, oil and grease, and retrograde lab chemicals.
Comments Date: 02272003
Comments: 5YEAR - In February 2003, a Five Year Review Report was approved
Comments Date: 02272003
Comments: which recommends no additional groundwater monitoring and to
Comments Date: 02272003
Comments: close the monitoring wells. Monitoring wells were closed in July
Comments Date: 02272003
Comments: 2003.
Comments Date: 02281988
Comments: CERT - The site was certified with operation and maintenance
Comments Date: 02281988
Comments: activities which include inspection of the asphalt cap and
Comments Date: 02281988
Comments: groundwater monitoring.
Comments Date: 10301987
Comments: RAP - A Remedial Action Plan was approved which required
Comments Date: 10301987
Comments: excavation and offsite disposal of contaminated soil and
Comments Date: 10301987
Comments: installation of an asphalt cap.
Comments Date: 12161997
Comments: 5YEAR - Five year review conducted. Recommends no further
Comments Date: 12161997
Comments: groundwater monitoring.
ID Name: CALSTARS CODE
ID Value: 200001
ID Name: BEP DATABASE PCODE
ID Value: P22075
Alternate Name: WAREHAM DEVELOPMENTWAREHAM PROPERTYWAREHAM PROPERTIESSEVENTH STREET PROPER
Special Programs Code: Not reported
Special Programs Name: Not reported

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0522

LUST:
Region: STATE
Global Id: T0600100476

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Latitude:	37.8531
Longitude:	-122.2932
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/29/1994
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-0522
LOC Case Number:	01-0522
File Location:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

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

Contact:

Global Id:	T0600100476
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100476
Contact Type:	Local Agency Caseworker
Contact Name:	GEOFFERY FIEDLER
Organization Name:	BERKELEY, CITY OF
Address:	2118 MILVIA STREET 3RD FLOOR
City:	BERKELEY
Email:	gfiedler@ci.berkeley.ca.us
Phone Number:	Not reported

Status History:

Global Id:	T0600100476
Status:	Completed - Case Closed
Status Date:	09/29/1994

Global Id:	T0600100476
Status:	Open - Case Begin Date
Status Date:	08/01/1985

Regulatory Activities:

Global Id:	T0600100476
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

Global Id:	T0600100476
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

Global Id:	T0600100476

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

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

LUST REG 2:
Region: 2
Facility Id: 01-0522
Facility Status: Case Closed
Case Number: 01-0522
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

RESPONSE:
Facility ID: 01200019
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jacinto Soto
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200001
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 15
Senate: 09
Special Program Status: Not reported
Status: Certified
Status Date: 11/19/2003
Restricted Use: NO
Funding: Responsible Party
Latitude: 37.85241
Longitude: -122.2944
APN: 053-1644-014, 53-1644-14
Past Use: MANUFACTURING - OTHER
Potential COC: TPH-diesel, TPH-MOTOR OIL
Confirmed COC: TPH-diesel, TPH-MOTOR OIL, TPH-diesel, TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: SEVENTH STREET PROPERTIES
Alias Type: Alternate Name
Alias Name: WAREHAM DEVELOPMENT
Alias Type: Alternate Name
Alias Name: WAREHAM PROPERTY
Alias Type: Alternate Name

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Alias Name: 053-1644-014
Alias Type: APN
Alias Name: 53-1644-14
Alias Type: APN
Alias Name: 110033614391
Alias Type: EPA (FRS #)
Alias Name: P22075
Alias Type: PCode
Alias Name: 200001
Alias Type: Project Code (Site Code)
Alias Name: 01200019
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 10/30/1987
Comments: A Remedial Action Plan was approved which required excavation and offsite disposal of contaminated soil and installation of an asphalt cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 10/30/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 08/30/1986
Comments: Reports noted caustic liquid in a drainage swale along railroad tracks and soil implacted by oils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/19/2003
Comments: Approval of the Abandonment of Monitoring Wells Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/11/1988
Comments: The site was certified with operation and maintenance activities which include inspection of the asphalt cap and groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/28/2009
Comments: This agreement applies to the property located at 740 Heinz Avenue, Berkeley, California. The purpose of this agreement is for the RP to investigate and remediated the release of any hazardous substances at the site.

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 02/27/2003
Comments: No additional groundwater monitoring is required. DTSC will direct Wareham to close the monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 12/24/1997
Comments: Recommends no further groundwater monitoring.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:
Year: 2003
County Code: 1
Air Basin: SF
Facility ID: 15697
Air District Name: BA
SIC Code: 6513
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2004
County Code: 1
Air Basin: SF
Facility ID: 15697
Air District Name: BA
SIC Code: 6513
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Year:	2005
County Code:	1
Air Basin:	SF
Facility ID:	15697
Air District Name:	BA
SIC Code:	6513
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2006
County Code:	1
Air Basin:	SF
Facility ID:	15697
Air District Name:	BA
SIC Code:	6513
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2008
County Code:	1
Air Basin:	SF
Facility ID:	15697
Air District Name:	BA
SIC Code:	6513
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	.001
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2009
County Code:	1
Air Basin:	SF
Facility ID:	15697
Air District Name:	BA
SIC Code:	6513

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0.001
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2010
County Code:	1
Air Basin:	SF
Facility ID:	15697
Air District Name:	BA
SIC Code:	6513
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.001
Reactive Organic Gases Tons/Yr:	8.3670000000000001E-4
Carbon Monoxide Emissions Tons/Yr:	0.001
NOX - Oxides of Nitrogen Tons/Yr:	5.0000000000000001E-3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	6
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jacinto Soto
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01200019
Site Code:	200001
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Certified
Status Date:	11/19/2003
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.85241
Longitude:	-122.2944
APN:	053-1644-014, 53-1644-14
Past Use:	MANUFACTURING - OTHER
Potential COC:	TPH-diesel, TPH-MOTOR OIL
Confirmed COC:	TPH-diesel, TPH-MOTOR OIL, TPH-diesel, TPH-MOTOR OIL
Potential Description:	SOIL
Alias Name:	SEVENTH STREET PROPERTIES
Alias Type:	Alternate Name

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Alias Name: WAREHAM DEVELOPMENT
Alias Type: Alternate Name
Alias Name: WAREHAM PROPERTY
Alias Type: Alternate Name
Alias Name: 053-1644-014
Alias Type: APN
Alias Name: 53-1644-14
Alias Type: APN
Alias Name: 110033614391
Alias Type: EPA (FRS #)
Alias Name: P22075
Alias Type: PCode
Alias Name: 200001
Alias Type: Project Code (Site Code)
Alias Name: 01200019
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 10/30/1987
Comments: A Remedial Action Plan was approved which required excavation and offsite disposal of contaminated soil and installation of an asphalt cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 10/30/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 08/30/1986
Comments: Reports noted caustic liquid in a drainage swale along railroad tracks and soil implacted by oils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/19/2003
Comments: Approval of the Abandonment of Monitoring Wells Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/11/1988
Comments: The site was certified with operation and maintenance activities which include inspection of the asphalt cap and groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 12/28/2009
Comments: This agreement applies to the property located at 740 Heinz Avenue,

SEVENTH STREET PROPERTIES II (Continued) **S102008151**

Berkeley, California. The purpose of this agreement is for the RP to investigate and remediated the release of any hazardous substances at the site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	02/27/2003
Comments:	No additional groundwater monitoring is required. DTSC will direct Wareham to close the monitoring wells.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	12/24/1997
Comments:	Recommends no further groundwater monitoring.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

S88 **EMERY BAY MARKETPLACE** **SLIC** **S110326748**
SSE **UNK 64TH ST & CHRISTIE AVE** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.326 mi.
1723 ft. **Site 3 of 3 in cluster S**

Relative:
Lower

Actual:
12 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	06/07/1988
Global Id:	T0600100512
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0003105
Latitude:	37.8437
Longitude:	-122.2943
Case Type:	Cleanup Program Site
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0559
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Other Petroleum, Polynuclear aromatic hydrocarbons (PAHs)
Site History:	Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

Q89 **COPPER & BRASS SALES** **LUST** **U003713265**
ENE **1295 67TH ST** **Alameda County CS** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.326 mi.
1723 ft. **Site 2 of 2 in cluster Q**

Relative:
Higher

Actual:
33 ft.

LUST:

Region:	STATE
Global Id:	T0600100670
Latitude:	37.8491523
Longitude:	-122.2905864
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/06/1994
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0726
LOC Case Number:	RO0000963
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

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

Contact:

Global Id:	T0600100670
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100670
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0600100670
Status:	Completed - Case Closed
Status Date:	10/06/1994

Global Id:	T0600100670
Status:	Open - Case Begin Date
Status Date:	12/29/1992

Regulatory Activities:

Global Id:	T0600100670
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

COPPER & BRASS SALES (Continued) **U003713265**

Global Id: T0600100670
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-0726
Facility Status: Case Closed
Case Number: 3932
How Discovered: Tank Closure
Leak Cause: Corrosion
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000963
PE: 5602

P90 **COPPER & BRASS SALES** **HIST CORTESE** **S105023663**
ESE **1295 65TH** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.327 mi.
1729 ft. **Site 3 of 4 in cluster P**

Relative:
Higher

Actual:
29 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0726

R91 **PLANT INSULATION COMPANY** **HIST CORTESE** **S102859749**
ESE **1372 OCEAN AVE** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **SLIC**
0.331 mi. **Alameda County CS**
1746 ft. **Site 3 of 3 in cluster R**

Relative:
Higher

Actual:
24 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2256

LUST REG 2:
Region: 2
Facility Id: 01-2256

PLANT INSULATION COMPANY (Continued) **S102859749**

Facility Status: Leak being confirmed
Case Number: 6449
How Discovered: OM
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 12/17/1997
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 08/24/1998
Global Id: T0600102072
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0002833
Latitude: 37.845789
Longitude: -122.290619
Case Type: Cleanup Program Site
Case Worker: BJJ
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-2256
File Location: Stored electronically as an E-file
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel, Gasoline
Site History: An investigation into a suspected dispenser island was performed when Plant Insulation Company planned to sell the property. Soil samples were collected and maximum concentrations were 150 ppm TPHg, 430 ppm TPHd. One well was installed and sampled. once on October 19,1997. THe well contained maximum concentrations of 120 ppb TPHd, No TPHg, BTEX or MTBE, 6.0 ppb PCE, 41 ppb TCE.

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

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0002833
PE: 5502

Status: Pollution Characterization
Record Id: RO0002833
PE: 5502

U92 **LIQUID SUGARS INC (TOXICS)** **Alameda County CS** **S111711158**
East **1269 66TH ST** **N/A**
1/4-1/2 **OAKLAND, CA 94608**
0.331 mi.
1747 ft. **Site 2 of 4 in cluster U**

Relative: **Higher**

Actual: **32 ft.**

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0002463
PE: 5502

Status: Case Closed
Record Id: RO0002463
PE: 5502

P93 **OAKLAND DIESEL DISTRIBUTORS, INC (G** **Alameda County CS** **S103979755**
ESE **1289 65TH ST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.332 mi.
1752 ft. **Site 4 of 4 in cluster P**

Relative: **Higher**

Actual: **29 ft.**

Alameda County CS:
Status: 11
Record Id: RO0002767
PE: 5502

W94 **EMERY BAY MARKETPLACE** **HIST CORTESE** **S104233653**
South **0 UNK 64TH ST & CHRISTIE AVE** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **Alameda County CS**
0.334 mi.
1761 ft. **Site 1 of 2 in cluster W**

Relative: **Lower**

Actual: **11 ft.**

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0559

LUST REG 2:
Region: 2
Facility Id: 01-0559
Facility Status: Preliminary site assessment underway
Case Number: 1764
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 11/10/1987
Preliminary Site Assesment Began: 6/7/1988
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Leak Confirmation

EMERY BAY MARKETPLACE (Continued) **S104233653**

Record Id: RO0003105
PE: 5502

V95 **BERKELEY IND COURT** **CERC-NFRAP** **1003878538**
NNE **729 HEINZ AVE** **SLIC** **CAD980637235**
1/4-1/2 **BERKELEY, CA 94710**
0.336 mi.
1772 ft. **Site 2 of 4 in cluster V**

Relative:
Higher

Actual:
28 ft.

CERC-NFRAP:
Site ID: 0901886
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13053409.00000
Person ID: 9271184.00000

Contact Sequence ID: 13288918.00000
Person ID: 13003854.00000

Contact Sequence ID: 13294513.00000
Person ID: 13003858.00000

Contact Sequence ID: 13300371.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 06/01/81
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: 10/01/86
Date Completed: 10/01/86
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 10/01/86
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 10/01/86
Priority Level: Higher priority for further assessment

SLIC REG 2:
Region: 2
Facility ID: 01S0387
Facility Status: Preliminary site assessment underway
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure

BERKELEY IND COURT (Continued) **1003878538**

Leak Cause: UNK
Leak Source: UNK
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: 7/11/1996
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

V96 **BERKELEY INDUSTRIAL COURT** **HIST CORTESE** **S102008166**
NNE **729 HEINZ AVENUE** **LUST** **N/A**
1/4-1/2 **BERKELEY, CA 94710** **SLIC**
0.336 mi. **RESPONSE**
1772 ft. **Site 3 of 4 in cluster V** **ENVIROSTOR**

Relative: Higher

Actual: 28 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1935

LUST:
Region: STATE
Global Id: T0600101792
Latitude: 37.853527
Longitude: -122.29482
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/09/1997
Lead Agency: BERKELEY, CITY OF
Case Worker: GAF
Local Agency: BERKELEY, CITY OF
RB Case Number: 01-1935
LOC Case Number: 01-1935
File Location: Not reported
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: T0600101792
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101792
Contact Type: Local Agency Caseworker
Contact Name: GEOFFERY FIEDLER
Organization Name: BERKELEY, CITY OF
Address: 2118 MILVIA STREET 3RD FLOOR
City: BERKELEY

BERKELEY INDUSTRIAL COURT (Continued) **S102008166**

Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Status History:
Global Id: T0600101792
Status: Completed - Case Closed
Status Date: 01/09/1997

Global Id: T0600101792
Status: Open - Case Begin Date
Status Date: 06/21/1993

Global Id: T0600101792
Status: Open - Site Assessment
Status Date: 10/08/1993

Global Id: T0600101792
Status: Open - Site Assessment
Status Date: 04/11/1994

Regulatory Activities:
Global Id: T0600101792
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101792
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101792
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 09/17/2010
Global Id: T0600191535
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.852883
Longitude: -122.295667
Case Type: Cleanup Program Site
Case Worker: CLP
Local Agency: BERKELEY, CITY OF
RB Case Number: 01S0387
File Location: Local Agency
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Trichloroethylene (TCE)
Site History: Not reported

BERKELEY INDUSTRIAL COURT (Continued) **S102008166**

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

RESPONSE:

Facility ID:	01280069
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	2.85
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 2 - San Francisco Bay, CITY OF BERKELEY
Lead Agency:	RWQCB 2 - San Francisco Bay
Lead Agency Description:	RWQCB 2 - San Francisco Bay
Project Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	15
Senate:	09
Special Program Status:	Not reported
Status:	Refer: RWQCB
Status Date:	06/21/2007
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.85358
Longitude:	-122.2949
APN:	53-1655-8
Past Use:	UNKNOWN
Potential COC:	* ACID SOLUTION 2>PH WITH METALS, * UNSPECIFIED SOLVENT MIXTURES, Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel
Confirmed COC:	* ACID SOLUTION 2>PH WITH METALS, * UNSPECIFIED SOLVENT MIXTURES, Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, 10198-NO, Lead, 10119-NO
Potential Description:	OTH, SOIL
Alias Name:	AIRCO TEMESCAL
Alias Type:	Alternate Name
Alias Name:	AIRCO, INC
Alias Type:	Alternate Name
Alias Name:	Berkeley Arts Complex
Alias Type:	Alternate Name
Alias Name:	HALL SCOTT MARINE ENGINE FOUNDRY
Alias Type:	Alternate Name
Alias Name:	MAGIC GARDENS NURSERY
Alias Type:	Alternate Name
Alias Name:	PRIMAL SCREEN
Alias Type:	Alternate Name
Alias Name:	53-1655-8
Alias Type:	APN
Alias Name:	110033618191
Alias Type:	EPA (FRS #)
Alias Name:	201672
Alias Type:	Site Code - Historical

BERKELEY INDUSTRIAL COURT (Continued) **S102008166**

Alias Name: CAD980637235
Alias Type: HWTS Identification Code
Alias Name: 01280069
Alias Type: Envirostor ID Number
Alias Name: 60000399
Alias Type: Envirostor ID Number
Alias Name: 60000400
Alias Type: Envirostor ID Number
Alias Name: 60000668
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/01/1986
Comments: Inspection (EPA FIT): E&E Report # C(86)C111; confirmed DHS Preliminary Assessment information. Nine samples taken.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/15/2005
Comments: Site screening determined that PCBs, lead, nickel, and petroleum hydrocarbons had previously been detected in soil samples collected from the site. The City of Berkeley has overseen sampling at the site in an effort to characterize chlorinated solvent occurrence in area groundwater. See Heinz/Grayson Plume Site - Temescal Business Center for site screening dated 2/15/2005

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/26/1981
Comments: Facility identified from EPA Superfund list.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 2.85
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 2 - San Francisco Bay, CITY OF BERKELEY
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01280069

BERKELEY INDUSTRIAL COURT (Continued) **S102008166**

Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Refer: RWQCB
Status Date: 06/21/2007
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.85358
Longitude: -122.2949
APN: 53-1655-8
Past Use: UNKNOWN
Potential COC: * ACID SOLUTION 2>PH WITH METALS, * UNSPECIFIED SOLVENT MIXTURES, Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel
Confirmed COC: * ACID SOLUTION 2>PH WITH METALS, * UNSPECIFIED SOLVENT MIXTURES, Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, 10198-NO, Lead, 10119-NO
Potential Description: OTH, SOIL
Alias Name: AIRCO TEMESCAL
Alias Type: Alternate Name
Alias Name: AIRCO, INC
Alias Type: Alternate Name
Alias Name: Berkeley Arts Complex
Alias Type: Alternate Name
Alias Name: HALL SCOTT MARINE ENGINE FOUNDRY
Alias Type: Alternate Name
Alias Name: MAGIC GARDENS NURSERY
Alias Type: Alternate Name
Alias Name: PRIMAL SCREEN
Alias Type: Alternate Name
Alias Name: 53-1655-8
Alias Type: APN
Alias Name: 110033618191
Alias Type: EPA (FRS #)
Alias Name: 201672
Alias Type: Site Code - Historical
Alias Name: CAD980637235
Alias Type: HWTS Identification Code
Alias Name: 01280069
Alias Type: Envirostor ID Number
Alias Name: 60000399
Alias Type: Envirostor ID Number
Alias Name: 60000400
Alias Type: Envirostor ID Number
Alias Name: 60000668
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/01/1986

BERKELEY INDUSTRIAL COURT (Continued) **S102008166**

Comments: Inspection (EPA FIT): E&E Report # C(86)C111; confirmed DHS Preliminary Assessment information. Nine samples taken.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/15/2005
Comments: Site screening determined that PCBs, lead, nickel, and petroleum hydrocarbons had previously been detected in soil samples collected from the site. The City of Berkeley has overseen sampling at the site in an effort to characterize chlorinated solvent occurrence in area groundwater. See Heinz/Grayson Plume Site - Temescal Business Center for site screening dated 2/15/2005

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/26/1981
Comments: Facility identified from EPA Superfund list.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

V97 **BERKELEY INDUSTRIAL COMPLEX** **LUST 1000268547**
NNE **729 HEINZ ST** **SLIC N/A**
1/4-1/2 **BERKELEY, CA 94710**
0.336 mi.
1772 ft. **Site 4 of 4 in cluster V**

Relative: Higher

Actual: 28 ft.

LUST REG 2:
Region: 2
Facility Id: 01-1935
Facility Status: Case Closed
Case Number: 01-1935
How Discovered: OM
Leak Cause: Structure Failure
Leak Source: Piping
Date Leak Confirmed: 10/8/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 4/11/1994
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC REG 2:
Region: 2
Facility ID: SLT2O03642
Facility Status: Leak being confirmed

BERKELEY INDUSTRIAL COMPLEX (Continued) **1000268547**

Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

U98 **1266 66TH ST - LIQUID SUGARS** **SLIC S102813808**
East **1266 66TH ST** **N/A**
1/4-1/2 **EMERYVILLE, CA**
0.339 mi.
1791 ft. **Site 3 of 4 in cluster U**

Relative:
Higher

Actual:
32 ft.

SLIC:
Region: STATE
Facility Status: **Open - Verification Monitoring**
Status Date: 01/01/2000
Global Id: SL0600120444
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.848424
Longitude: -122.2895
Case Type: Cleanup Program Site
Case Worker: NK
Local Agency: Not reported
RB Case Number: 01S0523
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon, Tetrachloroethylene (PCE), Trichloroethylene (TCE)
Site History: Liquid Sugars, Inc. (LSI) operated a food-grade vegetable oil and liquid sugar facility on the site since the 1970s. Site investigations performed during property transfer revealed groundwater contamination consisting of chlorinated VOCs, including PCE, TCE, 1,2-DCE, 12-DCA, and vinyl chloride. A risk management plan was implemented in October 1999. Areas of groundwater contamination appear limited to small areas of the site, and groundwater is not migrating.

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

SLIC REG 2:
Region: 2
Facility ID: 01S0523
Facility Status: Pollution Characterization
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported

1266 66TH ST - LIQUID SUGARS (Continued) **S102813808**

Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

U99 **1266 66TH ST** **SLIC** **S106234794**
East **1266 66TH ST** **N/A**
1/4-1/2 **EMERYVILLE, CA**
0.339 mi.
1791 ft. **Site 4 of 4 in cluster U**

Relative:
Higher

Actual:
32 ft.

SLIC REG 2:
Region: 2
Facility ID: Not reported
Facility Status: Not reported
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

W100 **LERER BROTHERS TRANSMISSION** **NPDES** **S105021563**
South **6340 CHRISTIE AVE** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **Alameda County CS**
0.342 mi.
1805 ft. **Site 2 of 2 in cluster W**

Relative:
Lower

Actual:
11 ft.

NPDES:
Npdes Number: CAS000002
Facility Status: Active
Agency Id: 0
Region: 2
Regulatory Measure Id: 427078
Order No: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 2 01C363628
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 05/15/2012
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: ROCKWOOD CHRISTIE LLC
Discharge Address: 100 Bush Street
Discharge City: San Francisco
Discharge State: California
Discharge Zip: 94104

LERER BROTHERS TRANSMISSION (Continued) **S105021563**

LUST:

Region:	STATE
Global Id:	T0600191821
Latitude:	37.8430281930599
Longitude:	-122.294727265835
Case Type:	LUST Cleanup Site
Status:	Open - Eligible for Closure
Status Date:	05/13/2013
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	21-2471
LOC Case Number:	RO0000057
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Lead, Other Metal, Diesel, Gasoline, Methane, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	In 1931 the site was a tidal mud flat. By 1947 the site had been filled, but contained no site development until about 1966. One 2,000-gallon gasoline UST was removed in February 1988. Five soil bores (BH-A to BH-E) were installed in October 1998; grab groundwater was also collected. Concentrations of concern were encountered. Wells MW-1 to MW-3 were installed in January 1999. Two soil bores were installed in October 1999 (BH-F and BH-G). Wells MW-1 to MW-3 were decommissioned in late April and early May 2000. Seven soil bores (SB-1 to SB-7) and 12 vapor points were installed in December 2004. Site redevelopment to residential is pending. Excavation of petroleum contamination is being conducted in late 2012 to 2013 concurrently with DTSC oversight of site wide remedial excavation. DTSC cannot oversee petroleum related contamination by regulatory charter. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

Contact:

Global Id:	T0600191821
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600191821
Contact Type:	Local Agency Caseworker
Contact Name:	MARK DETTERMAN
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	mark.detterman@acgov.org
Phone Number:	5105676876

LERER BROTHERS TRANSMISSION (Continued) **S105021563**

Status History:

Global Id:	T0600191821
Status:	Open - Case Begin Date
Status Date:	12/31/1988
Global Id:	T0600191821
Status:	Open - Eligible for Closure
Status Date:	05/13/2013
Global Id:	T0600191821
Status:	Open - Remediation
Status Date:	11/01/2012
Global Id:	T0600191821
Status:	Open - Site Assessment
Status Date:	02/03/1998
Global Id:	T0600191821
Status:	Open - Site Assessment
Status Date:	10/06/1998
Global Id:	T0600191821
Status:	Open - Site Assessment
Status Date:	01/28/1999

Regulatory Activities:

Global Id:	T0600191821
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Excavation
Global Id:	T0600191821
Action Type:	RESPONSE
Date:	09/16/2011
Action:	Electronic Reporting Submittal Due
Global Id:	T0600191821
Action Type:	RESPONSE
Date:	12/31/2012
Action:	Final Remedial Action Report / Corrective Action Report
Global Id:	T0600191821
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped
Global Id:	T0600191821
Action Type:	ENFORCEMENT
Date:	07/24/2009
Action:	Staff Letter - #20090724
Global Id:	T0600191821
Action Type:	ENFORCEMENT
Date:	07/03/2008
Action:	Staff Letter - #20080703

LERER BROTHERS TRANSMISSION (Continued) **S105021563**

Global Id: T0600191821
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600191821
Action Type: RESPONSE
Date: 01/21/2005
Action: Soil and Water Investigation Report

Global Id: T0600191821
Action Type: RESPONSE
Date: 08/09/2011
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0600191821
Action Type: RESPONSE
Date: 10/21/2008
Action: Interim Remedial Action Plan

Global Id: T0600191821
Action Type: RESPONSE
Date: 10/22/2008
Action: Soil and Water Investigation Workplan

Global Id: T0600191821
Action Type: RESPONSE
Date: 01/21/2005
Action: Soil and Water Investigation Report

Global Id: T0600191821
Action Type: RESPONSE
Date: 10/27/1998
Action: Preliminary Site Assessment Report

Global Id: T0600191821
Action Type: RESPONSE
Date: 09/27/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0600191821
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600191821
Action Type: ENFORCEMENT
Date: 09/19/1990
Action: Staff Letter

Global Id: T0600191821
Action Type: ENFORCEMENT
Date: 04/03/2009
Action: Staff Letter - #20090403

Global Id: T0600191821
Action Type: ENFORCEMENT

LERER BROTHERS TRANSMISSION (Continued) **S105021563**

Date: 08/15/2011
Action: Staff Letter - #20110815

Global Id: T0600191821
Action Type: ENFORCEMENT
Date: 01/28/2011
Action: Staff Letter - #20110128

Global Id: T0600191821
Action Type: RESPONSE
Date: 08/15/1987
Action: Correspondence

Global Id: T0600191821
Action Type: RESPONSE
Date: 11/09/1999
Action: Soil and Water Investigation Report

LUST REG 2:
Region: 2
Facility Id: 21-2471
Facility Status: Preliminary site assessment underway
Case Number: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 2/19/1999
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000057
PE: 5602

Status: Preliminary Site Assessment Workplan Submitted
Record Id: RO0000057
PE: 5602

Status: Preliminary Site Assessment Underway
Record Id: RO0000057
PE: 5602

Status: Pollution Characterization
Record Id: RO0000057
PE: 5602

101
ESE
1/4-1/2
0.345 mi.
1820 ft.

J. T. THORPE & SON, INC.
1351 OCEAN AVE
EMERYVILLE, CA 94608

HIST CORTESE
LUST
CA FID UST
Alameda County CS
SWEEPS UST

S101624434
N/A

Relative:
Higher

Actual:
24 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0697

LUST:

Region:	STATE
Global Id:	T0600100642
Latitude:	37.8458941
Longitude:	-122.2897255
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/11/1995
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	EC
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0697
LOC Case Number:	RO0000577
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

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

Contact:

Global Id:	T0600100642
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100642
Contact Type:	Local Agency Caseworker
Contact Name:	EVA CHU
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5105676762

Status History:

Global Id:	T0600100642
Status:	Completed - Case Closed
Status Date:	01/11/1995

Global Id:	T0600100642
Status:	Open - Case Begin Date
Status Date:	06/06/1988

J. T. THORPE & SON, INC. (Continued) **S101624434**

Regulatory Activities:
Global Id: T0600100642
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100642
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-0697
Facility Status: Case Closed
Case Number: 3739
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 11/3/1988
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01000820
Regulated By: UTNKI
Regulated ID: 00036268
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4155472400
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

Alameda County CS:
Status: Case Closed
Record Id: RO0000577
PE: 5602

SWEEPS UST:
Status: Not reported

J. T. THORPE & SON, INC. (Continued) **S101624434**

Comp Number:	36268
Number:	Not reported
Board Of Equalization:	44-000374
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-036268-000001
Actv Date:	Not reported
Capacity:	4000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	DIESEL
Number Of Tanks:	1

---

102 **MACBETH HARDWARE COMPANY** **HIST CORTESE** **S102432856**
NE **930 ASHBY AVE** **LUST** **N/A**
1/4-1/2 **BERKELEY, CA 94704**
0.345 mi.
1822 ft.

Relative:
Higher

Actual:
35 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0931

LUST:

Region:	STATE
Global Id:	T0600100856
Latitude:	37.851164
Longitude:	-122.290168
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/17/1995
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-0931
LOC Case Number:	01-0931
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

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

Contact:

Global Id:	T0600100856
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

MACBETH HARDWARE COMPANY (Continued) **S102432856**

Global Id: T0600100856
Contact Type: Local Agency Caseworker
Contact Name: GEOFFERY FIEDLER
Organization Name: BERKELEY, CITY OF
Address: 2118 MILVIA STREET 3RD FLOOR
City: BERKELEY
Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Status History:
Global Id: T0600100856
Status: Completed - Case Closed
Status Date: 10/17/1995

Global Id: T0600100856
Status: Open - Case Begin Date
Status Date: 10/07/1987

Regulatory Activities:
Global Id: T0600100856
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100856
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100856
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-0931
Facility Status: Case Closed
Case Number: 01-0931
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

X103 **MISSION TAYLOR PROPERTIES** **HIST CORTESE** **S103472199**
SE **1410 64TH ST** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **Alameda County CS**
0.349 mi.
1842 ft. **Site 1 of 3 in cluster X**

Relative:
Higher

Actual:
20 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0926

LUST:

Region:	STATE
Global Id:	T0600100851
Latitude:	37.8457269
Longitude:	-122.292022
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/22/1996
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0926
LOC Case Number:	RO0000568
File Location:	Stored electronically as an E-file
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:	T0600100851
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100851
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0600100851
Status:	Completed - Case Closed
Status Date:	03/22/1996

Global Id:	T0600100851
Status:	Open - Case Begin Date
Status Date:	02/23/1990

MISSION TAYLOR PROPERTIES (Continued) **S103472199**

Regulatory Activities:

Global Id:	T0600100851
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0600100851
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Excavation

LUST REG 2:

Region:	2
Facility Id:	01-0926
Facility Status:	Case Closed
Case Number:	3789
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000568
PE:	5602

X104 **SYBASE PROPERTIES** **Alameda County CS** **S109926662**
SE **1410-50 64TH ST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.349 mi.
1842 ft. **Site 2 of 3 in cluster X**

Relative:
Higher

Actual:
20 ft.

Alameda County CS:

Status:	11
Record Id:	RO0002623
PE:	5502

105
ENE
1/4-1/2
0.353 mi.
1865 ft.

FABCO
1249 67TH
OAKLAND, CA 94662

HIST CORTESE **1001266218**
N/A

Relative:
Higher

Actual:
35 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0608
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	3046

X106
SE
1/4-1/2
0.357 mi.
1885 ft.

HFH LIMITED
6400 HOLLIS
EMERYVILLE, CA

Site 3 of 3 in cluster X

HIST CORTESE **S102431110**
N/A

Relative:
Higher

Actual:
20 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0764

107
South
1/4-1/2
0.360 mi.
1901 ft.

64TH & CHRISTIE
6340 AND 6390 CHRISTIE AVENUE
EMERYVILLE, CA 94608

VCP **S111022973**
ENVIROSTOR **N/A**

Relative:
Lower

Actual:
11 ft.

VCP:

Facility ID:	60001475
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.2
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Karen Toth
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Programs Code:	Not reported
Status:	Refer: Other Agency
Status Date:	12/29/2010
Restricted Use:	NO
Funding:	EPA Grant
Lat/Long:	37.84344 / -122.2952
APN:	NONE SPECIFIED

64TH & CHRISTIE (Continued) **S111022973**

Past Use: UNDERGROUND STORAGE TANKS, VEHICLE MAINTENANCE
Potential COC: 30003, 30013, 30025, 3002502, 30108, 30272, 30550, 30593
Confirmed COC: 30003,30013,30025,30272,30108,30550,3002502,30593
Potential Description: OTH, SOIL, SV
Alias Name: 60001475
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 12/29/2010
Comments: Remediation Work Plan prooses to remove all contaminated soil at the site

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.2
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Karen Toth
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60001475
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 12/29/2010
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.84344
Longitude: -122.2952
APN: NONE SPECIFIED
Past Use: UNDERGROUND STORAGE TANKS, VEHICLE MAINTENANCE
Potential COC: Benzene, Lead, TPH-gas, TPH-MOTOR OIL, Cadmium and compounds, Ethylbenzene, Toluene, Xylenes
Confirmed COC: Benzene, Lead, TPH-gas, TPH-MOTOR OIL, Cadmium and compounds, Ethylbenzene, Toluene, Xylenes, Benzene, Lead, TPH-gas, Ethylbenzene, Cadmium and compounds, Toluene, TPH-MOTOR OIL, Xylenes
Potential Description: OTH, SOIL, SV
Alias Name: 60001475
Alias Type: Envirostor ID Number

64TH & CHRISTIE (Continued) **S111022973**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	12/29/2010
Comments:	Remediation Work Plan prooses to remove all contaminated soil at the site
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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108 South 1/4-1/2 0.380 mi. 2004 ft.

KING KNIGHT COMPANY
6202 CHRISTIE AVE
EMERYVILLE, CA 94608

HIST CORTESE S104564954
LUST N/A
Alameda County CS

Relative: Lower

Actual: 10 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0617

LUST:

Region:	STATE
Global Id:	T0600100569
Latitude:	37.8424
Longitude:	-122.294
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/25/1993
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0617
LOC Case Number:	RO0000892
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

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

Contact:

Global Id:	T0600100569
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA

KING KNIGHT COMPANY (Continued) **S104564954**

Email: Not reported
Phone Number: Not reported

Global Id: T0600100569
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600100569
Status: Completed - Case Closed
Status Date: 06/25/1993

Global Id: T0600100569
Status: Open - Case Begin Date
Status Date: 06/06/1990

Regulatory Activities:
Global Id: T0600100569
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100569
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-0617
Facility Status: Case Closed
Case Number: 3805
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 6/6/1990
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000892
PE: 5602

109 SE 1/4-1/2 0.380 mi. 2009 ft.

GRAPHIC COATING INC
6355 HOLLIS ST
EMERYVILLE, CA 94608

RCRA-SQG
HIST CORTESE
HAZNET

1000347197
CAD981649494

Relative: Higher

Actual: 20 ft.

RCRA-SQG:

Date form received by agency:	03/09/1987
Facility name:	GRAPHIC COATING INC
Facility address:	6355 HOLLIS ST EMERYVILLE, CA 94608
EPA ID:	CAD981649494
Mailing address:	HOLLIS ST EMERYVILLE, CA 94608
Contact:	ENVIRONMENTAL MANAGER
Contact address:	6355 HOLLIS ST EMERYVILLE, CA 94608
Contact country:	US
Contact telephone:	(415) 547-3331
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	WIGNALL BILL
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

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

GRAPHIC COATING INC (Continued) **1000347197**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 2838

HAZNET:
Year: 1993
Gepaid: CAD981649494
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 25932 EDEN LANDING ROAD
Mailing City,St,Zip: HAYWARD, CA 945450000
Gen County: Not reported
TSD EPA ID: CAD009452657
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Disposal, Other
Tons: 5.27500000000
Facility County: 1

Year: 1993
Gepaid: CAD981649494
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 25932 EDEN LANDING ROAD
Mailing City,St,Zip: HAYWARD, CA 945450000
Gen County: Not reported
TSD EPA ID: UTD048406144
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Recycler
Tons: 0.9173
Facility County: 1

Y110 **PRIVATE RESIDENCE** **SLIC** **S108245963**
ENE **PRIVATE RESIDENCE** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.382 mi.
2019 ft. **Site 1 of 2 in cluster Y**

Relative:
Higher

Actual:
37 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/21/2004
Global Id: T06019728691

PRIVATE RESIDENCE (Continued) **S108245963**

Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002521
Latitude:	37.849139
Longitude:	-122.288879
Case Type:	Cleanup Program Site
Case Worker:	BC
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

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

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	01/01/1965
Global Id:	T06019754705
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002626
Latitude:	37.838641
Longitude:	-122.285499
Case Type:	Cleanup Program Site
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Toluene, Waste Oil / Motor / Hydraulic / Lubricating, Lead, Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Surficial soil sampling event on a vacant lot in February 1995 was conducted to investigate potential for total lead.

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

Y111 **FABCO DIVISION** **CA FID UST** **1000175745**
ENE **1249 067TH ST** **Alameda County CS** **N/A**
1/4-1/2 **OAKLAND, CA 94608** **HIST UST**
0.382 mi. **SWEEPS UST**
2019 ft. **Site 2 of 2 in cluster Y**

Relative:
Higher

Actual:
37 ft.

CA FID UST:

Facility ID:	01002087
Regulated By:	UTNKI
Regulated ID:	00003673
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4156587070
Mail To:	Not reported
Mailing Address:	P O BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	OAKLAND 94608
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported

FABCO DIVISION (Continued) **1000175745**

Comments: Not reported
Status: Inactive

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0002521
PE: 5502

Status: Pollution Characterization
Record Id: RO0002521
PE: 5502

Status: Remedial Action Underway
Record Id: RO0002521
PE: 5502

Status: Case Closed
Record Id: RO0002521
PE: 5502

HIST UST:
Region: STATE
Facility ID: 00000003673
Facility Type: Other
Other Type: MANUFACTURING PLANT
Total Tanks: 0002
Contact Name: M. NIEMELA, GENERAL MANAGER
Telephone: 4156587070
Owner Name: KELSEY-HAYES CO.
Owner Address: 1249 "67TH" STREET
Owner City,St,Zip: OAKLAND, CA 94608

Tank Num: 001
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 1
Year Installed: 1974
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: None

SWEEPS UST:
Status: Not reported
Comp Number: 3673
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported

FABCO DIVISION (Continued) **1000175745**

Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-003673-000001
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

Z112 **63RD STREET TRUNK SEWER PROJECT** **VCP** **S106568175**
SSE **63RD STREET** **ENVIROSTOR** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.384 mi.
2029 ft. **Site 1 of 3 in cluster Z**

Relative:
Lower

Actual:
16 ft.

VCP:

Facility ID:	01490016
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Site Code:	201218
Assembly:	15
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	09/28/2000
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.84361 / -122.2919
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - OTHER
Potential COC:	30013, 30024
Confirmed COC:	30024,30013
Potential Description:	SOIL
Alias Name:	63RD STREET TRUNK SEWER PROJECT
Alias Type:	Alternate Name
Alias Name:	110033612963
Alias Type:	EPA (FRS #)
Alias Name:	201218
Alias Type:	Project Code (Site Code)
Alias Name:	01490016
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Consultation

63RD STREET TRUNK SEWER PROJECT (Continued) **S106568175**

Completed Date: 04/21/1999
Comments: Completed RA. During the sewer replacement, soils contaminated primarily with petroleum hydrocarbons and lead were encountered. All excavated materials for the project (approximately 450 cubic yards) were disposed off-site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/28/2000
Comments: During replacement of the 63rd Steet trunk sewer, soils contaminated with TPH and xylene were encountered invoking the 1995 Emeryville Marketplace Land Use.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Facility ID: 01490016
Site Code: 201218
Assembly: 15
Senate: 09
Special Program: Voluntary Cleanup Program
Status: No Further Action
Status Date: 09/28/2000
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.84361
Longitude: -122.2919
APN: NONE SPECIFIED
Past Use: MANUFACTURING - OTHER
Potential COC: Lead, TPH-diesel
Confirmed COC: Lead, TPH-diesel, TPH-diesel, Lead
Potential Description: SOIL
Alias Name: 63RD STREET TRUNK SEWER PROJECT
Alias Type: Alternate Name
Alias Name: 110033612963
Alias Type: EPA (FRS #)
Alias Name: 201218
Alias Type: Project Code (Site Code)

63RD STREET TRUNK SEWER PROJECT (Continued) **S106568175**

Alias Name: 01490016
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 04/21/1999
Comments: Completed RA. During the sewer replacement, soils contaminated primarily with petroleum hydrocarbons and lead were encountered. All excavated materials for the project (approximately 450 cubic yards) were disposed off-site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/28/2000
Comments: During replacement of the 63rd Steet trunk sewer, soils contaminated with TPH and xylene were encountered invoking the 1995 Emeryville Marketplace Land Use.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Z113 **PETERSON MFG. CO.** **NPDES** **1000218831**
SSE **1600 063RD ST** **HIST CORTESE** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **LUST**
0.387 mi. **CA FID UST**
2045 ft. **Site 2 of 3 in cluster Z** **Alameda County CS**
HIST UST
Relative: Lower **SWEEPS UST**

Actual: 16 ft.

NPDES:
Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 2
Regulatory Measure Id: 180796
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 2 01I005952
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 04/17/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Fed Ex
Discharge Address: 1600 63rd St
Discharge City: Emeryville
Discharge State: California

PETERSON MFG. CO. (Continued) **1000218831**

Discharge Zip: 94608

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1159

LUST:
Region: STATE
Global Id: T0600101068
Latitude: 37.8440330551637
Longitude: -122.292793393135
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 03/30/1987
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: MYM
Local Agency: Not reported
RB Case Number: 01-1159
LOC Case Number: RO0000052
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Diesel, Gasoline, Other Petroleum
Site History: In 1914 the site was developed as a tallow plant; all lands west of the railroad tracks were part of the Bay. The plant was demolished during redevelopment in 1988 and included the removal of six USTs, six sumps, seven ASTs, and a 350-foot water-supply well with 24 feet of free phase at that time. Between September 1987 and January 1988 ten soil bores (BH-1 to BH-10; hand augers) and three wells (MW-1 to MW-3) were installed. In May and June 1989 soil bore B-1 and wells five additional wells (MW-1 to MW-5) were installed. The status of the first set of three wells (MW-1 to MW-3) is unknown. In July 1994 bores B2 to B4 were installed around MW-2 (second generation well). In August 1999 five hydropunch bores (HP-1 to HP-5) were installed to investigate shallow groundwater, and one CPT bore was installed to investigate deep groundwater. In addition to five shallow grab groundwater samples, deep groundwater samples were collected from two depth intervals (78 103 and 135 - 160 feet). In January 2007 four wells were destroyed (MW-1, MW-3, MW-4, and MW-5) and five wells were installed (TR-1 to TR-5). At present FP delineation is underway. Not all historic documents for the fuel leak case are available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

Contact:
Global Id: T0600101068
Contact Type: Regional Board Caseworker
Contact Name: MARTIN MUSONGE
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
City: OAKLAND
Email: mmusonge@waterboards.ca.gov
Phone Number: Not reported

PETERSON MFG. CO. (Continued) **1000218831**

Status History:

Global Id:	T0600101068
Status:	Open - Case Begin Date
Status Date:	03/30/1987
Global Id:	T0600101068
Status:	Open - Site Assessment
Status Date:	03/30/1987

Regulatory Activities:

Global Id:	T0600101068
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped
Global Id:	T0600101068
Action Type:	RESPONSE
Date:	02/23/1999
Action:	Soil and Water Investigation Workplan
Global Id:	T0600101068
Action Type:	RESPONSE
Date:	11/22/1994
Action:	Monitoring Report - Quarterly
Global Id:	T0600101068
Action Type:	RESPONSE
Date:	11/22/1994
Action:	Soil and Water Investigation Report
Global Id:	T0600101068
Action Type:	RESPONSE
Date:	03/31/1988
Action:	Soil and Water Investigation Workplan
Global Id:	T0600101068
Action Type:	RESPONSE
Date:	07/07/1999
Action:	Soil and Water Investigation Workplan - Addendum
Global Id:	T0600101068
Action Type:	ENFORCEMENT
Date:	06/20/2013
Action:	13267 Requirement
Global Id:	T0600101068
Action Type:	ENFORCEMENT
Date:	07/24/2009
Action:	Staff Letter - #20090724
Global Id:	T0600101068
Action Type:	ENFORCEMENT
Date:	09/28/2006
Action:	Staff Letter - #20060928
Global Id:	T0600101068

PETERSON MFG. CO. (Continued) **1000218831**

Action Type: ENFORCEMENT
Date: 04/22/2013
Action: File Review - Closure

Global Id: T0600101068
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101068
Action Type: ENFORCEMENT
Date: 12/02/2010
Action: Staff Letter

Global Id: T0600101068
Action Type: ENFORCEMENT
Date: 05/18/2012
Action: Referral to Regional Board - #20120518

Global Id: T0600101068
Action Type: ENFORCEMENT
Date: 09/11/2008
Action: Staff Letter - #09/11/2008

Global Id: T0600101068
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600101068
Action Type: RESPONSE
Date: 08/31/2013
Action: Site Assessment Report

Global Id: T0600101068
Action Type: RESPONSE
Date: 04/29/2011
Action: Soil and Water Investigation Workplan - Addendum

Global Id: T0600101068
Action Type: RESPONSE
Date: 11/22/1994
Action: Soil and Water Investigation Report

Global Id: T0600101068
Action Type: RESPONSE
Date: 10/07/2002
Action: Correspondence

CA FID UST:
Facility ID: 01002113
Regulated By: UTNKI
Regulated ID: 00010751
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4156545772

PETERSON MFG. CO. (Continued) **1000218831**

Mail To: Not reported
Mailing Address: 1600 063RD ST
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

Alameda County CS:
Status: 11
Record Id: RO0000052
PE: 5602

Status: Pollution Characterization
Record Id: RO0000052
PE: 5602

HIST UST:
Region: STATE
Facility ID: 00000010751
Facility Type: Other
Other Type: RENDERING
Total Tanks: 0003
Contact Name: C. JONES
Telephone: 4156545772
Owner Name: PETERSON MFG. CO. SUBSIDIARY O
Owner Address: 2626 E. 25TH ST
Owner City,St,Zip: LOS ANGELES, CA 90058

Tank Num: 001
Container Num: 20
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 12
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 11
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT

PETERSON MFG. CO. (Continued) **1000218831**

Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Not reported
Comp Number: 10751
Number: Not reported
Board Of Equalization: 44-000154
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-010751-000001
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 4

Status: Not reported
Comp Number: 10751
Number: Not reported
Board Of Equalization: 44-000154
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-010751-000002
Actv Date: Not reported
Capacity: 10000
Tank Use: UNKNOWN
Stg: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10751
Number: Not reported
Board Of Equalization: 44-000154
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-010751-000003
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported

PETERSON MFG. CO. (Continued) **1000218831**

Comp Number: 10751
Number: Not reported
Board Of Equalization: 44-000154
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-010751-000004
Actv Date: Not reported
Capacity: 10000
Tank Use: UNKNOWN
Stg: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Z114 **PETERSON MFTG. CO.** **LUST** **U001599304**
SSE **1600 63RD ST** **HIST UST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **SWEEPS UST**
0.387 mi.
2045 ft. **Site 3 of 3 in cluster Z**

Relative:
Lower

Actual:
16 ft.

LUST REG 2:
Region: 2
Facility Id: 01-1159
Facility Status: Pollution Characterization
Case Number: 147
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/13/1989
Pollution Characterization Began: 6/30/1989
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST UST:
Region: STATE
Facility ID: 00000019675
Facility Type: Other
Other Type: RENDERING
Total Tanks: 0001
Contact Name: C. JONES
Telephone: 4156545772
Owner Name: PETERSON MFG. CO. SUBSIDIARY O
Owner Address: 2626 E. 25TH STREET
Owner City,St,Zip: LOS ANGELES, CA 90058

Tank Num: 001
Container Num: 19
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported

PETERSON MFTG. CO. (Continued) **U001599304**

Tank Construction: Not reported
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Active
Comp Number: 300147
Number: 1
Board Of Equalization: 44-035579
Referral Date: 09-03-93
Action Date: 04-27-94
Created Date: 04-27-94
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-300147-000001
Actv Date: 09-03-93
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 2

Status: Active
Comp Number: 300147
Number: 1
Board Of Equalization: 44-035579
Referral Date: 09-03-93
Action Date: 04-27-94
Created Date: 04-27-94
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-300147-000002
Actv Date: 09-03-93
Capacity: 500
Tank Use: OIL
Stg: W
Content: WASTE OIL
Number Of Tanks: Not reported

---

115 East 1/4-1/2 0.403 mi. 2130 ft.

Relative: Higher

Actual: 33 ft.

OLIVER LOFTS
1200 65TH ST
EMERYVILLE, CA

RCRA-SQG **1000921585**
FINDS **CAD009113473**
HIST CORTESE
LUST
CA FID UST
SLIC
Alameda County CS
HIST UST

RCRA-SQG:
Date form received by agency: 08/07/2001
Facility name: OLIVER LOFTS
Facility address: 1200 65TH ST
EMERYVILLE, CA 94608
EPA ID: CAD009113473
Mailing address: 491 MANDANA BLVD NO 7
OAKLAND, CA 94610
Contact: NICHOLAS HARALAMBIDES
Contact address: 491 MANDANA BLVD NO 7

OLIVER LOFTS (Continued) **1000921585**

OAKLAND, CA 94610
Contact country: US
Contact telephone: (510) 548-4159
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: OLIVER LOFTS L L C
Owner/operator address: 491 MANDANA BLVD NO 7
OAKLAND, CA 94610
Owner/operator country: Not reported
Owner/operator telephone: (510) 548-4159
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Historical Generators:
Date form received by agency: 09/01/1996
Facility name: OLIVER LOFTS
Classification: Large Quantity Generator

OLIVER LOFTS (Continued) **1000921585**

Date form received by agency: 02/04/1992
Facility name: OLIVER LOFTS
Site name: OLIVER RUBBER CO.
Classification: Small Quantity Generator

Date form received by agency: 04/09/1990
Facility name: OLIVER LOFTS
Site name: OLIVER RUBBER COMPANY
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/16/1985
Date achieved compliance: 11/14/1985
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/30/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 11/14/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/29/1985
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/16/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/14/1985
Evaluation lead agency: State

FINDS:

OLIVER LOFTS (Continued) **1000921585**

Registry ID: 110012530421

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

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1091

LUST:
Region: STATE
Global Id: T0600101005
Latitude: 37.84779
Longitude: -122.28675
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/01/1995
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: SOS
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1091
LOC Case Number: RO0000608
File Location: Stored electronically as an E-file
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

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

Contact:
Global Id: T0600101005
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101005
Contact Type: Local Agency Caseworker
Contact Name: SCOTT SEERY
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: Not reported

OLIVER LOFTS (Continued) **1000921585**

Status History:
Global Id: T0600101005
Status: Completed - Case Closed
Status Date: 06/01/1995

Global Id: T0600101005
Status: Open - Case Begin Date
Status Date: 06/24/1992

Regulatory Activities:
Global Id: T0600101005
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600101005
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-1091
Facility Status: Case Closed
Case Number: 1330
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 9/10/1992
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01001207
Regulated By: UTNKA
Regulated ID: 00050156
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4156547711
Mail To: Not reported
Mailing Address: 1200 65TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported

OLIVER LOFTS (Continued) **1000921585**

Status: Active

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 05/24/1999
Global Id: SLT2O05662
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0002849
Latitude: 37.8480446215117
Longitude: -122.289043664932
Case Type: Cleanup Program Site
Case Worker: SH
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: NA
File Location: Stored electronically as an E-file
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Benzene, Other Chlorinated Hydrocarbons
Site History: Not reported

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

SLIC REG 2:
Region: 2
Facility ID: SLT2O05662
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000608
PE: 5602

Status: Case Closed
Record Id: RO0002849
PE: 5502

HIST UST:
Region: STATE
Facility ID: 00000050156
Facility Type: Other
Other Type: RUBBER MANUFACTURER
Total Tanks: 0005
Contact Name: NEIL ARNOLD, MANUFACTURING MAN

OLIVER LOFTS (Continued) **1000921585**

Telephone: 4156547711
Owner Name: OLIVER RUBBER COMPANY
Owner Address: 1200 65TH STREET
Owner City,St,Zip: OAKLAND, CA 94662

Tank Num: 001
Container Num: #1
Year Installed: 1956
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4" inches
Leak Detection: None

Tank Num: 002
Container Num: #2
Year Installed: 1956
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: None

Tank Num: 003
Container Num: #3
Year Installed: 1956
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: None

Tank Num: 004
Container Num: #4
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: None

Tank Num: 005
Container Num: #5
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: None

AA116 **EMERYVILLE FIRE STATION #2** **LUST** **S103890508**
SE **6303 HOLLIS ST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.407 mi.
2150 ft. **Site 1 of 2 in cluster AA**

Relative:
Higher

Actual:
19 ft.

LUST REG 2:

Region:	2
Facility Id:	01-2094
Facility Status:	Preliminary site assessment workplan submitted
Case Number:	3998
How Discovered:	Subsurface Monitoring
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	7/12/1995
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

AA117 **EMERYVILLE FIRE DEPARTMENT** **HIST CORTESE** **S101624425**
SE **6303 HOLLIS ST** **LUST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608** **CA FID UST**
0.407 mi. **Alameda County CS**
2150 ft. **Site 2 of 2 in cluster AA** **SWEEPS UST**

Relative:
Higher

Actual:
19 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-2094

LUST:

Region:	STATE
Global Id:	T0600101925
Latitude:	37.8442893444389
Longitude:	-122.29095607996
Case Type:	LUST Cleanup Site
Status:	Open - Assessment & Interim Remedial Action
Status Date:	10/12/1995
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-2094
LOC Case Number:	RO0000061
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History:	One diesel and unleaded gas USTs were removed on October 12, 1995 from the site. Previously, in March 1995 five soil bores were installed and collected soil and groundwater samples. In July 1995 seven soil bores were installed and soil and grab groundwater were collected. Excavation of 35 yards from the gasoline tank and 19 yards from the diesel tank occurred; however, all used to backfill gasoline tank pit; clean fill used to backfill diesel tank. Four additional bores installed March 1997, as well as MW-1. MW-1 monitored quarterly

EMERYVILLE FIRE DEPARTMENT (Continued) **S101624425**

between September 1996 and June 1998. Semi-annual monitoring proposed thereafter for one to two additional years; MTBE concentrations rose significantly during that period. No further information available.

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

Contact:

Global Id:	T0600101925
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600101925
Contact Type:	Local Agency Caseworker
Contact Name:	MARK DETTERMAN
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	mark.detterman@acgov.org
Phone Number:	5105676876

Status History:

Global Id:	T0600101925
Status:	Open - Assessment & Interim Remedial Action
Status Date:	10/12/1995

Global Id:	T0600101925
Status:	Open - Site Assessment
Status Date:	06/02/1995

Regulatory Activities:

Global Id:	T0600101925
Action Type:	ENFORCEMENT
Date:	07/03/2008
Action:	Staff Letter - #20080703

Global Id:	T0600101925
Action Type:	ENFORCEMENT
Date:	05/09/2013
Action:	File review

Global Id:	T0600101925
Action Type:	ENFORCEMENT
Date:	02/27/2012
Action:	File review

Global Id:	T0600101925
Action Type:	RESPONSE
Date:	09/16/2011
Action:	Soil and Water Investigation Workplan

Global Id:	T0600101925
Action Type:	Other

EMERYVILLE FIRE DEPARTMENT (Continued) **S101624425**

Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101925
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101925
Action Type: ENFORCEMENT
Date: 07/25/2011
Action: Staff Letter - #20110725

Global Id: T0600101925
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600101925
Action Type: RESPONSE
Date: 08/10/2009
Action: Electronic Reporting Submittal Due

Global Id: T0600101925
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Notice of Violation - #20090724

Global Id: T0600101925
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

CA FID UST:
Facility ID: 01002710
Regulated By: UTNKA
Regulated ID: 00045601
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 6303 HOLLIS ST
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000061

EMERYVILLE FIRE DEPARTMENT (Continued) **S101624425**

PE: 5602

SWEEPS UST:

Status:	Not reported
Comp Number:	45601
Number:	Not reported
Board Of Equalization:	44-000439
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-045601-000003
Actv Date:	Not reported
Capacity:	550
Tank Use:	PETROLEUM
Stg:	PRODUCT
Content:	DIESEL
Number Of Tanks:	1

Status:	Active
Comp Number:	45601
Number:	4
Board Of Equalization:	44-000439
Referral Date:	09-28-93
Action Date:	04-27-94
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	1
Swrcb Tank Id:	01-000-045601-000001
Actv Date:	07-01-85
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	2

Status:	Active
Comp Number:	45601
Number:	4
Board Of Equalization:	44-000439
Referral Date:	09-28-93
Action Date:	04-27-94
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	2
Swrcb Tank Id:	01-000-045601-000002
Actv Date:	07-01-85
Capacity:	550
Tank Use:	M.V. FUEL
Stg:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

118
NE
1/4-1/2
0.408 mi.
2155 ft.

JWP MECHANICAL
999 ANTHONY ST
BERKELEY, CA 94704

HIST CORTESE
LUST

S103995034
N/A

Relative:
Higher

Actual:
36 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0812

LUST:

Region:	STATE
Global Id:	T0600100748
Latitude:	37.852771
Longitude:	-122.29066
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/13/1995
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-0812
LOC Case Number:	01-0812
File Location:	Not reported
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:	T0600100748
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100748
Contact Type:	Local Agency Caseworker
Contact Name:	GEOFFERY FIEDLER
Organization Name:	BERKELEY, CITY OF
Address:	2118 MILVIA STREET 3RD FLOOR
City:	BERKELEY
Email:	gfiedler@ci.berkeley.ca.us
Phone Number:	Not reported

Status History:

Global Id:	T0600100748
Status:	Completed - Case Closed
Status Date:	04/13/1995

Global Id:	T0600100748
Status:	Open - Case Begin Date
Status Date:	05/11/1992

JWP MECHANICAL (Continued) **S103995034**

Global Id: T0600100748
Status: Open - Site Assessment
Status Date: 06/18/1992

Regulatory Activities:
Global Id: T0600100748
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100748
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100748
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-0812
Facility Status: Case Closed
Case Number: 01-0812
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 6/18/1992
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

AB119 **ASPHALT PROD OIL CO** **SLIC** **S105035460**
ENE **1001 ASHBY AVE** **EMI** **N/A**
1/4-1/2 **BERKELEY, CA 94710** **WDS**
0.418 mi.
2206 ft. **Site 1 of 2 in cluster AB**

Relative:
Higher

Actual:
40 ft.

SLIC REG 2:
Region: 2
Facility ID: 01S0404
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: 6/11/1995
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported

ASPHALT PROD OIL CO (Continued) **S105035460**

Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

EMI:

Year:	1987
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1

Year:	1990
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	4
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year:	1993
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	3
Part. Matter 10 Micrometers & Smllr Tons/Yr:	2

Year: 1995

ASPHALT PROD OIL CO (Continued) **S105035460**

County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1

Year:	1996
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1

Year:	1997
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1

Year:	1998
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD

ASPHALT PROD OIL CO (Continued) **S105035460**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1999
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2851
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0

ASPHALT PROD OIL CO (Continued) **S105035460**

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2002
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2951
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2003
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2951
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2004
County Code:	1
Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2951
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.312
Reactive Organic Gases Tons/Yr:	5.3512604
Carbon Monoxide Emissions Tons/Yr:	0.007
NOX - Oxides of Nitrogen Tons/Yr:	0.036
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.413
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.36558
Year:	2005
County Code:	1

ASPHALT PROD OIL CO (Continued) **S105035460**

Air Basin:	SF
Facility ID:	754
Air District Name:	BA
SIC Code:	2951
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.312
Reactive Organic Gases Tons/Yr:	5.3512604
Carbon Monoxide Emissions Tons/Yr:	.007
NOX - Oxides of Nitrogen Tons/Yr:	.036
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.413
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.36558

CA WDS:

Facility ID:	San Francisco Bay 01I004583
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	4155484887
Facility Contact:	BT TRAN
Agency Name:	ASPHALT PROD OIL CO
Agency Address:	1001 Ashby Ave
Agency City,St,Zip:	Berkeley 947102807
Agency Contact:	BT TRAN
Agency Telephone:	5105484887
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

ASPHALT PROD OIL CO (Continued) **S105035460**

dairy waste ponds.

AB120 **ASPHALT PRODUCTS OIL CORPORATI** **HIST CORTESE** **S101624596**
ENE **1001 ASHBY AVE** **LUST** **N/A**
1/4-1/2 **BERKELEY, CA 94710** **CA FID UST**
0.418 mi. **SWEEPS UST**
2206 ft. **Site 2 of 2 in cluster AB**

Relative: Higher

Actual: 40 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0060

LUST:

Region:	STATE
Global Id:	T0600100054
Latitude:	37.8516385
Longitude:	-122.2893427
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/17/2001
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-0060
LOC Case Number:	01-0060
File Location:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

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

Contact:

Global Id:	T0600100054
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100054
Contact Type:	Local Agency Caseworker
Contact Name:	GEOFFERY FIEDLER
Organization Name:	BERKELEY, CITY OF
Address:	2118 MILVIA STREET 3RD FLOOR
City:	BERKELEY
Email:	gfiedler@ci.berkeley.ca.us
Phone Number:	Not reported

Status History:

Global Id:	T0600100054
Status:	Completed - Case Closed
Status Date:	12/17/2001

ASPHALT PRODUCTS OIL CORPORATI (Continued) **S101624596**

Global Id: T0600100054
Status: Open - Case Begin Date
Status Date: 03/07/1990

Global Id: T0600100054
Status: Open - Site Assessment
Status Date: 10/19/1990

Regulatory Activities:
Global Id: T0600100054
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100054
Action Type: ENFORCEMENT
Date: 12/17/2001
Action: Closure/No Further Action Letter

Global Id: T0600100054
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100054
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-0060
Facility Status: Post remedial action monitoring
Case Number: 01-0060
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 10/19/1990
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 1/2/1965

CA FID UST:
Facility ID: 01000179
Regulated By: UTNKA
Regulated ID: 00050157
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4155484887
Mail To: Not reported
Mailing Address: 1001 ASHBY AVE

ASPHALT PRODUCTS OIL CORPORATI (Continued) **S101624596**

Mailing Address 2: Not reported
Mailing City,St,Zip: BERKELEY 94710
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: Not reported
Comp Number: 50157
Number: Not reported
Board Of Equalization: 44-001514
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-050157-000001
Actv Date: Not reported
Capacity: 4000
Tank Use: UNKNOWN
Stg: WASTE
Content: Not reported
Number Of Tanks: 1

Status: Active
Comp Number: 50157
Number: 9
Board Of Equalization: 44-001514
Referral Date: 02-21-90
Action Date: 02-21-90
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: W-13000
Swrcb Tank Id: 01-020-050157-000002
Actv Date: 08-20-93
Capacity: 13000
Tank Use: UNKNOWN
Stg: W
Content: Not reported
Number Of Tanks: 1

121
ESE
1/4-1/2
0.427 mi.
2253 ft.

REDEVELOPMENT AGENCY **SLIC** **S106235272**
1265 1269 OCEAN AVE **N/A**
EMERYVILLE, CA

Relative:
Higher

Actual:
30 ft.

SLIC REG 2:
Region: 2
Facility ID: SLT2O06975
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported

REDEVELOPMENT AGENCY (Continued) **S106235272**

How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

122
ENE
1/4-1/2
0.434 mi.
2294 ft.

FOLGER MURPHY PROPERTY **HIST CORTESE** **S101306319**
1020 MURRAY ST **LUST** **N/A**
BERKELEY, CA 94704

Relative:
Higher

Actual:
41 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0648

LUST:
Region: STATE
Global Id: T0600100598
Latitude: 37.851362
Longitude: -122.287667
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/11/1995
Lead Agency: BERKELEY, CITY OF
Case Worker: GAF
Local Agency: BERKELEY, CITY OF
RB Case Number: 01-0648
LOC Case Number: 01-0648
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

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

Contact:
Global Id: T0600100598
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600100598
Contact Type: Local Agency Caseworker
Contact Name: GEOFFERY FIEDLER
Organization Name: BERKELEY, CITY OF
Address: 2118 MILVIA STREET 3RD FLOOR

FOLGER MURPHY PROPERTY (Continued) **S101306319**

City: BERKELEY
Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Status History:
Global Id: T0600100598
Status: Completed - Case Closed
Status Date: 01/11/1995

Global Id: T0600100598
Status: Open - Case Begin Date
Status Date: 10/03/1988

Regulatory Activities:
Global Id: T0600100598
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100598
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100598
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100598
Action Type: ENFORCEMENT
Date: 01/11/1995
Action: Closure/No Further Action Letter

LUST REG 2:
Region: 2
Facility Id: 01-0648
Facility Status: Case Closed
Case Number: 01-0648
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

AC123 **NATIONAL STARCH & CHEMICAL CO** **RCRA-SQG** **1000260552**
North **742 GRAYSON ST.** **FINDS** **CAD058777251**
1/4-1/2 **BERKELEY, CA** **SLIC**
0.437 mi. **WDS**
2305 ft. **Site 1 of 2 in cluster AC**

Relative:
Higher

Actual:
26 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	NATIONAL STARCH & CHEM CORP
Facility address:	742 GRAYSON STREET BERKELEY, CA 94710
EPA ID:	CAD058777251
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NATIONAL STARCH AND CHEMICAL CORPORATION
Owner/operator address:	742 GRAYSON STREET BERKELEY, CA 94710
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 841-4530
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NATIONAL STARCH AND CHEMICAL CORPORATION
Owner/operator address:	742 GRAYSON STREET CITY NOT REPORTED, CA 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 841-4530
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

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

NATIONAL STARCH & CHEMICAL CO (Continued) **1000260552**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/20/1992
Facility name: NATIONAL STARCH & CHEM CORP
Site name: NATIONAL STARCH & CHEMICAL CO
Classification: Large Quantity Generator

Date form received by agency: 08/15/1991
Facility name: NATIONAL STARCH & CHEM CORP
Site name: NATIONAL STARCH & CHEMICAL
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Facility name: NATIONAL STARCH & CHEM CORP
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110000483824

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

SLIC REG 2:
Region: 2
Facility ID: SLT2O03440
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported

NATIONAL STARCH & CHEMICAL CO (Continued) **1000260552**

Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA WDS:

Facility ID:	San Francisco Bay 01I003046
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	2
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	NATIONAL STARCH & CHEMICAL CO
Agency Address:	742 Grayson St
Agency City,St,Zip:	Berkeley 947102616
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

AC124 **HENKEL CORP** **NPDES** **S108198152**
North **742 GRAYSON ST** **SLIC** **N/A**
1/4-1/2 **BERKELEY, CA 94710**
0.437 mi.
2305 ft. **Site 2 of 2 in cluster AC**

Relative:
Higher

Actual:
26 ft.

NPDES:

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	2
Regulatory Measure Id:	362425
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 01I022348
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/06/2009
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Henkel Corp
Discharge Address:	742 Grayson St
Discharge City:	Berkeley
Discharge State:	California
Discharge Zip:	94710

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/05/2009
Global Id:	SLT2O03440
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.854472
Longitude:	-122.295379
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	SLT2O03440
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

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125 **VACANT LOT** **SLIC** **S108246108**
ESE **1258 64TH ST** **Alameda County CS** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.439 mi.
2317 ft.

Relative:
Higher

Actual:
28 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	11/13/1997
Global Id:	T06019799203
Lead Agency:	ALAMEDA COUNTY LOP

VACANT LOT (Continued) **S108246108**

Lead Agency Case Number:	RO0002682
Latitude:	37.845732
Longitude:	-122.288119
Case Type:	Cleanup Program Site
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

Alameda County CS:

Status:	Case Closed
Record Id:	RO0002682
PE:	5502

AD126 **POST OFFICE** **HIST CORTESE** **S103993720**
SSE **1505 62ND** **WIP** **N/A**
1/4-1/2 **EMERYVILLE, CA 94068**
0.442 mi.
2336 ft. **Site 1 of 3 in cluster AD**

Relative:
Lower

Actual:
15 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-2065

WIP:

Region:	4
File Number:	113.0496
File Status:	**Historical**
Staff:	LM
Facility Suite:	Not reported

AD127 **USPS** **LUST** **S111760312**
SSE **1505 62ND STREET** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.442 mi.
2336 ft. **Site 2 of 3 in cluster AD**

Relative:
Lower

Actual:
15 ft.

LUST:

Region:	STATE
Global Id:	T0600101608
Latitude:	37.8418852736694
Longitude:	-122.292122840881
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	06/08/1993
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	MYM
Local Agency:	Not reported

USPS (Continued) **S111760312**

RB Case Number: 01-1737
LOC Case Number: RO0000447
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Polychlorinated biphenyls (PCBs), Diesel, Gasoline, Other Petroleum
Site History: Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp. Beginning in February 1981 portions of the site have been analyzed for PCB contamination tied to the former Westinghouse Parcel I facility on the southern property line of the subject site. Elevated concentrations were found in shallow soil in June 1981 along the southwestern boundary adjacent to a railroad spur. In 1985 the RWQCB issued a Cleanup & Abatement Order to Westinghouse and ultimately 35-foot deep slurry wall was constructed along the northern & eastern boundaries of the site having greater than 50 ppm PCB. PCB soil was excavated from the subject site and moved to within the wall and an engineered CAP was installed (on the property to the immediate south). In 1992 environmental investigations for the then proposed USPS building began. In January 1992, 10 soil bores and one well (MW-1) were installed; PCBs, TPHd and TPHk were encountered. In June 1993, 46 vapor probes and 25 soil bores (four converted to groundwater wells) were installed and hydrocarbons at concentrations of concern were discovered. It was found that the site had been used as an oil distribution facility by Shell Oil and Guardian Oil in the 1930s, with 10 ASTs in the SE corner of the site and 4 ASTs in the SW corner of the site. Free-phase was also encountered. In July and August 1993 two USTs were removed from the central and southern areas of the site, a third UST was later discovered along the northern property line, and a number of product lines were removed and sampled (all with residual hydrocarbon concentrations). The rail siding along the western property line was also excavated and elevated hydrocarbon and PCB concentrations were documented. Groundwater monitoring is documented between October 1994 and July 1995. Additional PCB remediation appears to have been conducted under RWQCB oversight; however, UST issues are reported not to have been included in the oversight. The historic address associated with the site (6121 Hollis Street) appears to be incorrect and is reported to have been due to former temporary use of the 6121 address by the USPS; the address associated with the site was changed in April 2010.

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

Contact:
Global Id: T0600101608
Contact Type: Regional Board Caseworker
Contact Name: MARTIN MUSONGE
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
City: OAKLAND
Email: mmusonge@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600101608
Status: Open - Case Begin Date

USPS (Continued) **S111760312**

Status Date: 08/02/1992

Global Id: T0600101608
Status: Open - Site Assessment
Status Date: 06/08/1993

Regulatory Activities:
Global Id: T0600101608
Action Type: RESPONSE
Date: 09/17/1993
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE
Date: 05/10/1993
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 09/15/1993
Action: CAP/RAP - Other Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 01/05/1994
Action: Soil and Water Investigation Workplan

Global Id: T0600101608
Action Type: RESPONSE
Date: 10/01/2002
Action: Soil and Water Investigation Workplan

Global Id: T0600101608
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0600101608
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101608
Action Type: ENFORCEMENT
Date: 06/14/2012
Action: Referral to Regional Board - #20120614

Global Id: T0600101608
Action Type: ENFORCEMENT
Date: 05/12/1998
Action: Staff Letter - #19980512

Global Id: T0600101608
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

USPS (Continued) **S111760312**

Global Id: T0600101608
Action Type: RESPONSE
Date: 04/11/2001
Action: Soil and Water Investigation Workplan

Global Id: T0600101608
Action Type: RESPONSE
Date: 12/11/1991
Action: Correspondence

Global Id: T0600101608
Action Type: RESPONSE
Date: 07/30/1993
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 07/13/1993
Action: Other Workplan

Global Id: T0600101608
Action Type: RESPONSE
Date: 08/08/2000
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 01/08/2001
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE
Date: 04/18/2001
Action: Remedial Progress Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 08/11/1993
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE
Date: 04/10/2009
Action: Correspondence

Global Id: T0600101608
Action Type: RESPONSE
Date: 04/22/1992
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 09/13/1993
Action: Tank Removal Report / UST Sampling Report

Global Id: T0600101608
Action Type: RESPONSE

USPS (Continued) **S111760312**

Date: 02/28/1992
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE
Date: 09/20/1990
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 07/30/1993
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 10/20/2000
Action: CAP/RAP - Feasibility Study Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 09/06/2001
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 05/10/2000
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 04/28/1995
Action: Correspondence

Global Id: T0600101608
Action Type: RESPONSE
Date: 08/29/1995
Action: Monitoring Report - Quarterly

Global Id: T0600101608
Action Type: RESPONSE
Date: 01/19/1995
Action: Monitoring Report - Quarterly

Global Id: T0600101608
Action Type: RESPONSE
Date: 10/09/2000
Action: CAP/RAP - Feasibility Study Report

Global Id: T0600101608
Action Type: ENFORCEMENT
Date: 01/30/2009
Action: Staff Letter - #20090130

Global Id: T0600101608
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

USPS (Continued) **S111760312**

Global Id: T0600101608
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600101608
Action Type: ENFORCEMENT
Date: 02/29/2012
Action: File review

Global Id: T0600101608
Action Type: RESPONSE
Date: 01/31/1992
Action: Soil and Water Investigation Workplan

Global Id: T0600101608
Action Type: RESPONSE
Date: 01/05/2001
Action: Soil and Water Investigation Workplan

Global Id: T0600101608
Action Type: RESPONSE
Date: 10/05/2000
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE
Date: 06/20/2000
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE
Date: 01/10/2001
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE
Date: 05/07/1993
Action: Soil and Water Investigation Workplan

Global Id: T0600101608
Action Type: RESPONSE
Date: 05/26/1994
Action: Soil and Water Investigation Workplan

Global Id: T0600101608
Action Type: RESPONSE
Date: 09/15/1993
Action: Soil and Water Investigation Report

Global Id: T0600101608
Action Type: RESPONSE
Date: 03/26/1993
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE

USPS (Continued) **S111760312**

Date: 07/01/1993
Action: Other Report / Document

Global Id: T0600101608
Action Type: RESPONSE
Date: 08/10/1993
Action: Other Report / Document

AD128 **USPS** **Alameda County CS** **S111711155**
SSE **1505 62ND ST** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.442 mi.
2336 ft. **Site 3 of 3 in cluster AD**

Relative:
Lower

Actual:
15 ft.

Alameda County CS:
Status: 11
Record Id: RO0000447
PE: 5602

Status: Pollution Characterization
Record Id: RO0000447
PE: 5602

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129 **PQ CORP THE** **RCRA-SQG** **1000180425**
North **801 GRAYSON ST** **HIST CORTESE** **CAD009146663**
1/4-1/2 **BERKELEY, CA 94710** **LUST**
0.459 mi. **CA FID UST**
2423 ft. **HIST UST**
SWEEPS UST

Relative:
Higher

Actual:
30 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PQ CORP THE
Facility address: 801 GRAYSON ST
BERKELEY, CA 94710
EPA ID: CAD009146663
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported

PQ CORP THE (Continued) **1000180425**

Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: THE PQ CORPORATION
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Historical Generators:
Date form received by agency: 08/07/1980
Facility name: PQ CORP THE
Classification: Large Quantity Generator

Violation Status: No violations found

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1203

LUST:
Region: STATE
Global Id: T0600101106
Latitude: 37.8544902
Longitude: -122.2965712
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/30/2003
Lead Agency: BERKELEY, CITY OF
Case Worker: GAF

PQ CORP THE (Continued) **1000180425**

Local Agency: BERKELEY, CITY OF
RB Case Number: 01-1203
LOC Case Number: 01-1203
File Location: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Heating Oil / Fuel Oil, Diesel
Site History: Not reported

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

Contact:
Global Id: T0600101106
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101106
Contact Type: Local Agency Caseworker
Contact Name: GEOFFERY FIEDLER
Organization Name: BERKELEY, CITY OF
Address: 2118 MILVIA STREET 3RD FLOOR
City: BERKELEY
Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Status History:
Global Id: T0600101106
Status: Completed - Case Closed
Status Date: 04/30/2003

Global Id: T0600101106
Status: Open - Case Begin Date
Status Date: 11/06/1986

Regulatory Activities:
Global Id: T0600101106
Action Type: ENFORCEMENT
Date: 04/30/2003
Action: * No Action

Global Id: T0600101106
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101106
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101106
Action Type: Other
Date: 01/01/1950

PQ CORP THE (Continued) **1000180425**

Action: Leak Reported

Global Id: T0600101106
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-1203
Facility Status: Case Closed
Case Number: 01-1203
How Discovered: PST
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01001320
Regulated By: UTNKA
Regulated ID: 00067591
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158451048
Mail To: Not reported
Mailing Address: 801 GRAYSON ST
Mailing Address 2: Not reported
Mailing City,St,Zip: BERKELEY 94710
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST UST:
Region: STATE
Facility ID: 00000067591
Facility Type: Other
Other Type: CHEMICAL PLANT
Total Tanks: 0003
Contact Name: ED KOSHETAR
Telephone: 4158451048
Owner Name: THE P.Q. CORPORATION
Owner Address: P.O. BOX 840
Owner City,St,Zip: VALLEY FORGE, PA 19482

PQ CORP THE (Continued) **1000180425**

Tank Num: 001
Container Num: 19A
Year Installed: Not reported
Tank Capacity: 00026600
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Unkown centimeters
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 19B
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: GASOLINE
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Not reported
Comp Number: 67591
Number: Not reported
Board Of Equalization: 44-001558
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-067591-000001
Actv Date: Not reported
Capacity: 26600
Tank Use: UNKNOWN
Stg: PRODUCT
Content: Not reported
Number Of Tanks: 3

Status: Not reported
Comp Number: 67591
Number: Not reported
Board Of Equalization: 44-001558
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-020-067591-000002
Actv Date: Not reported
Capacity: 10000

PQ CORP THE (Continued) **1000180425**

Tank Use:	UNKNOWN
Stg:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	67591
Number:	Not reported
Board Of Equalization:	44-001558
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-020-067591-000003
Actv Date:	Not reported
Capacity:	500
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

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130 **TEMESCAL BUSINESS CENTER** **SLIC** **S101007045**
NNE **2850 7TH STREET** **RESPONSE** **N/A**
1/4-1/2 **BERKELEY, CA 94710** **ENVIROSTOR**
0.461 mi.
2432 ft.

Relative:
Higher

Actual:
35 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	03/08/2001
Global Id:	SLT2O02329
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.853847662849
Longitude:	-122.292637825012
Case Type:	Cleanup Program Site
Case Worker:	CLP
Local Agency:	Not reported
RB Case Number:	01S0743
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

SLIC REG 2:

Region:	2
Facility ID:	SLT2O02329
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported

TEMESCAL BUSINESS CENTER (Continued) **S101007045**

Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

RESPONSE:

Facility ID:	60000400
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	6.87
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 2 - San Francisco Bay, CITY OF BERKELEY
Lead Agency:	RWQCB 2 - San Francisco Bay
Lead Agency Description:	RWQCB 2 - San Francisco Bay
Project Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	15
Senate:	09
Special Program Status:	Not reported
Status:	Refer: RWQCB
Status Date:	06/27/2007
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.85388
Longitude:	-122.2932
APN:	53-1655-9
Past Use:	UNKNOWN
Potential COC:	Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis
Confirmed COC:	Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis
Potential Description:	OTH
Alias Name:	53-1655-9
Alias Type:	APN
Alias Name:	110033618976
Alias Type:	EPA (FRS #)
Alias Name:	SLT2O02329
Alias Type:	GeoTracker Global ID
Alias Name:	201674
Alias Type:	Site Code - Historical
Alias Name:	01280069
Alias Type:	Envirostor ID Number
Alias Name:	60000399
Alias Type:	Envirostor ID Number
Alias Name:	60000400
Alias Type:	Envirostor ID Number
Alias Name:	60000668
Alias Type:	Envirostor ID Number

Completed Info:

TEMESCAL BUSINESS CENTER (Continued) **S101007045**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/15/2005
Comments: Site screening determined that historic site uses had included automobile manufacturing, rebuilding of marine engines, and storage of chemical metal etching waste. The City of Berkeley has overseen sampling at the site in an effort to characterize the occurrence of chlorinated solvents in area groundwater.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 6.87
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 2 - San Francisco Bay, CITY OF BERKELEY
Lead Agency: RWQCB 2 - San Francisco Bay
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60000400
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Refer: RWQCB
Status Date: 06/27/2007
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.85388
Longitude: -122.2932
APN: 53-1655-9
Past Use: UNKNOWN
Potential COC: Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis
Confirmed COC: Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis
Potential Description: OTH
Alias Name: 53-1655-9
Alias Type: APN
Alias Name: 110033618976
Alias Type: EPA (FRS #)
Alias Name: SLT2O02329
Alias Type: GeoTracker Global ID
Alias Name: 201674

TEMESCAL BUSINESS CENTER (Continued) **S101007045**

Alias Type: Site Code - Historical
Alias Name: 01280069
Alias Type: Envirostor ID Number
Alias Name: 60000399
Alias Type: Envirostor ID Number
Alias Name: 60000400
Alias Type: Envirostor ID Number
Alias Name: 60000668
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/15/2005
Comments: Site screening determined that historic site uses had included automobile manufacturing, rebuilding of marine engines, and storage of chemical metal etching waste. The City of Berkeley has overseen sampling at the site in an effort to characterize the occurrence of chlorinated solvents in area groundwater.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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131 East 1/4-1/2 0.473 mi. 2496 ft.

AA JOHNSON & SON INC
1164 66TH ST
OAKLAND, CA 94608

HIST CORTESE **S104162458**
LUST **N/A**
Alameda County CS

Relative: Higher

Actual: 40 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1722

LUST:
Region: STATE
Global Id: T0600101593
Latitude: 37.8487816754402
Longitude: -122.287884950638
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 02/22/2005
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: BC
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1722
LOC Case Number: RO0000325
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)

AA JOHNSON & SON INC (Continued) **S104162458**

Potential Contaminants of Concern: Gasoline
Site History: Not reported

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

Contact:
Global Id: T0600101593
Contact Type: Local Agency Caseworker
Contact Name: BARNEY CHAN
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: 5105676765

Global Id: T0600101593
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600101593
Status: Completed - Case Closed
Status Date: 02/22/2005

Global Id: T0600101593
Status: Open - Case Begin Date
Status Date: 09/18/1991

Global Id: T0600101593
Status: Open - Remediation
Status Date: 11/13/1991

Global Id: T0600101593
Status: Open - Site Assessment
Status Date: 09/18/1991

Global Id: T0600101593
Status: Open - Verification Monitoring
Status Date: 12/13/1991

Regulatory Activities:
Global Id: T0600101593
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101593
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101593

AA JOHNSON & SON INC (Continued) **S104162458**

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

Global Id: T0600101593
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-1722
Facility Status: Preliminary site assessment underway
Case Number: 4248
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 2/27/1998
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Leak Confirmation
Record Id: RO0000325
PE: 5602

Status: Remedial Action Underway
Record Id: RO0000325
PE: 5602

Status: Verificaiton Monitoring Underway
Record Id: RO0000325
PE: 5602

Status: Case Closed
Record Id: RO0000325
PE: 5602

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132 **DUTRO/DOYLE HOLLIS PARK** **US BROWNFIELDS** **1010178447**
SE **1379 62ND STREET** **FINDS** **N/A**
1/4-1/2 **EMERYVILLE, CA**
0.474 mi.
2501 ft.

Relative:
Higher

Actual:
18 ft.

US BROWNFIELDS:
Recipient name: Emeryville, City of
Grant type: BCRLF
Property name: DUTRO/DOYLE HOLLIS PARK
Property #: 049-1480-002-01, 049-1480-001-00
Parcel size: 1.28
Property Description: Light manufacturing - Christy Metal Products previous owner. Use at

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

	time of aquistion: light manufacturing/hand trucks. Current use: public park
Latitude:	37.8435
Longitude:	-122.2892
HCM label:	Address Matching-House Number
Map scale:	1:24,000
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	26821
Start date:	30-OCT-07
Completed date:	28-APR-08
Acres cleaned up:	1.28
Cleanup funding:	86000
Cleanup funding source:	Local Funding
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	9300000
Redev. funding source:	Local Funding
Redev. funding entity name:	Emeryville Redevelopment Agency
Redevelopment start date:	01-OCT-08
Assessment funding entity:	Not reported
Cleanup funding entity:	City of Emeryville
Grant type:	P
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	97955901
Ownership entity:	Government
Current owner:	City of Emeryville
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	52
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.28
Future use greenspace acreage:	1.28
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	1.28
Superfund Fed. landowner flag:	N

Recipient name:	Emeryville, City of
Grant type:	BCRLF
Property name:	DUTRO/DOYLE HOLLIS PARK
Property #:	049-1480-002-01, 049-1480-001-00
Parcel size:	1.28
Property Description:	Light manufacturing - Christy Metal Products previous owner. Use at time of aquistion: light manufacturing/hand trucks. Current use: public park
Latitude:	37.8435
Longitude:	-122.2892
HCM label:	Address Matching-House Number
Map scale:	1:24,000
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	26821
Start date:	30-OCT-07
Completed date:	28-APR-08
Acres cleaned up:	1.28
Cleanup funding:	603900
Cleanup funding source:	US EPA - Brownfields RLF Loan
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	9300000
Redev. funding source:	Local Funding
Redev. funding entity name:	Emeryville Redevelopment Agency
Redevelopment start date:	01-OCT-08

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Assessment funding entity:	Not reported
Cleanup funding entity:	EPA
Grant type:	P
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	97955901
Ownership entity:	Government
Current owner:	City of Emeryville
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	52

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.28
Future use greenspace acreage:	1.28
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	1.28
Superfund Fed. landowner flag:	N

Recipient name:	Emeryville, City of
Grant type:	Cleanup
Property name:	DUTRO/DOYLE HOLLIS PARK
Property #:	049-1480-002-01, 049-1480-001-00
Parcel size:	1.28
Property Description:	Light manufacturing - Christy Metal Products previous owner. Use at time of aquistion: light manufacturing/hand trucks. Current use: public park
Latitude:	37.8435
Longitude:	-122.2892
HCM label:	Address Matching-House Number
Map scale:	1:24,000
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	26821
Start date:	01-APR-06
Completed date:	01-APR-08
Acres cleaned up:	1.28
Cleanup funding:	600000
Cleanup funding source:	Other Federal Funding
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	3600000
Redev. funding source:	Local Funding
Redev. funding entity name:	Tax Increment
Redevelopment start date:	01-OCT-08
Assessment funding entity:	Not reported
Cleanup funding entity:	EPA RLF
Grant type:	P
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	96915801
Ownership entity:	Government
Current owner:	City of Emeryville
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	20
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.28
Future use greenspace acreage:	1.28
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N

Recipient name:	Emeryville, City of
Grant type:	Cleanup
Property name:	DUTRO/DOYLE HOLLIS PARK
Property #:	049-1480-002-01, 049-1480-001-00
Parcel size:	1.28
Property Description:	Light manufacturing - Christy Metal Products previous owner. Use at time of aquistion: light manufacturing/hand trucks. Current use: public park
Latitude:	37.8435

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Longitude:	-122.2892
HCM label:	Address Matching-House Number
Map scale:	1:24,000
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	26821
Start date:	01-APR-06
Completed date:	01-APR-08
Acres cleaned up:	1.28
Cleanup funding:	200000
Cleanup funding source:	US EPA - Brownfields Cleanup Cooperative Agreement
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	3600000
Redev. funding source:	Local Funding
Redev. funding entity name:	Tax Increment
Redevelopment start date:	01-OCT-08
Assessment funding entity:	Not reported
Cleanup funding entity:	EPA
Grant type:	P
Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	96915801
Ownership entity:	Government
Current owner:	City of Emeryville
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	20
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.28
Future use greenspace acreage:	1.28
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N

Recipient name:	Emeryville, City of
Grant type:	Cleanup
Property name:	DUTRO/DOYLE HOLLIS PARK
Property #:	049-1480-002-01, 049-1480-001-00
Parcel size:	1.28
Property Description:	Light manufacturing - Christy Metal Products previous owner. Use at time of aquistion: light manufacturing/hand trucks. Current use: public park
Latitude:	37.8435
Longitude:	-122.2892
HCM label:	Address Matching-House Number
Map scale:	1:24,000
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	26821
Start date:	01-APR-06
Completed date:	01-APR-08
Acres cleaned up:	1.28
Cleanup funding:	170000
Cleanup funding source:	Local Funding
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	3600000
Redev. funding source:	Local Funding
Redev. funding entity name:	Tax Increment
Redevelopment start date:	01-OCT-08
Assessment funding entity:	Not reported
Cleanup funding entity:	Tax increment
Grant type:	P

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Accomplishment type:	Not reported
Accomplishment count:	0
Cooperative agreement #:	96915801
Ownership entity:	Government
Current owner:	City of Emeryville
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	20
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Past use industrial acreage:	1.28
Future use greenspace acreage:	1.28
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Recipient name:	Emeryville, City of
Grant type:	Assessment
Property name:	DUTRO/DOYLE HOLLIS PARK
Property #:	049-1480-002-01, 049-1480-001-00
Parcel size:	1.28
Property Description:	Light manufacturing - Christy Metal Products previous owner. Use at time of aquistion: light manufacturing/hand trucks. Current use: public park
Latitude:	37.8435
Longitude:	-122.2892
HCM label:	Address Matching-House Number
Map scale:	1:24,000
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	26821
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	100000
Assessment funding source:	Local Funding
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Tax increment financing from Redevelopment Agency
Cleanup funding entity:	Not reported
Grant type:	P
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97973601
Ownership entity:	Government
Current owner:	City of Emeryville
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.28
Future use greenspace acreage:	1.28
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N

Recipient name:	Emeryville, City of
Grant type:	Assessment
Property name:	DUTRO/DOYLE HOLLIS PARK
Property #:	049-1480-002-01, 049-1480-001-00
Parcel size:	1.28
Property Description:	Light manufacturing - Christy Metal Products previous owner. Use at time of aquistion: light manufacturing/hand trucks. Current use: public park
Latitude:	37.8435
Longitude:	-122.2892
HCM label:	Address Matching-House Number
Map scale:	1:24,000

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	26821
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	173400
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	P
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	97973601
Ownership entity:	Government
Current owner:	City of Emeryville
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	N
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Y
Asbestos cleaned:	Y
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Y

DUTRO/DOYLE HOLLIS PARK (Continued) **1010178447**

PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Y
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Y
VOCs cleaned:	Y
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	1.28
Future use greenspace acreage:	1.28
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N

FINDS:

Registry ID: 110038705666

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

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133 **SHELLMOND PROPERTIES** **SLIC** **1000725881**
South **4300 EASTSHORE HWY** **N/A**
1/4-1/2 **EMERYVILLE, CA**
0.478 mi.
2525 ft.

Relative:
Lower

Actual:
13 ft.

SLIC REG 2:

Region:	2
Facility ID:	01S0319
Facility Status:	Remediation Plan
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

SHELLMOND PROPERTIES (Continued) **1000725881**

Region: 2
Facility ID: SLT2O06167
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

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134 **CHRONICLE DEPOT** **HIST CORTESE** **S101306371**
NNE **2817 7TH ST** **LUST** **N/A**
1/4-1/2 **BERKELEY, CA 94704**
0.485 mi.
2560 ft.

Relative:
Higher

Actual:
36 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0396

LUST:
Region: STATE
Global Id: T0600100362
Latitude: 37.85462
Longitude: -122.291902
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/01/1999
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker: CCM
Local Agency: BERKELEY, CITY OF
RB Case Number: 01-0396
LOC Case Number: 01-0396
File Location: Not reported
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: Not reported

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

Contact:
Global Id: T0600100362
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

CHRONICLE DEPOT (Continued) **S101306371**

Global Id: T0600100362
Contact Type: Local Agency Caseworker
Contact Name: GEOFFERY FIEDLER
Organization Name: BERKELEY, CITY OF
Address: 2118 MILVIA STREET 3RD FLOOR
City: BERKELEY
Email: gfiedler@ci.berkeley.ca.us
Phone Number: Not reported

Status History:
Global Id: T0600100362
Status: Completed - Case Closed
Status Date: 01/01/1999

Global Id: T0600100362
Status: Open - Case Begin Date
Status Date: 04/23/1985

Global Id: T0600100362
Status: Open - Site Assessment
Status Date: 02/27/1996

Regulatory Activities:
Global Id: T0600100362
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100362
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100362
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-0396
Facility Status: Case Closed
Case Number: 01-0396
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 2/27/1996
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

AE135 **HOLLIS STREET PROJECT** **HIST CORTESE** **S102431437**
SE **6050 HOLLIS** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.488 mi.
2575 ft. **Site 1 of 2 in cluster AE**

Relative:
Higher

Actual:
18 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0773

AE136 **HOLLIS STREET PROJECT** **LUST** **S105688710**
SE **6050 HOLLIS ST** **Alameda County CS** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.488 mi.
2575 ft. **Site 2 of 2 in cluster AE**

Relative:
Higher

Actual:
18 ft.

LUST:

Region:	STATE
Global Id:	T0600100710
Latitude:	37.8421511
Longitude:	-122.290001
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/25/1997
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0773
LOC Case Number:	RO0000699
File Location:	Stored electronically as an E-file
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:	T0600100710
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100710
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0600100710
Status:	Completed - Case Closed

HOLLIS STREET PROJECT (Continued) **S105688710**

Status Date: 09/25/1997

Global Id: T0600100710
Status: Open - Case Begin Date
Status Date: 07/15/1987

Regulatory Activities:
Global Id: T0600100710
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100710
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-0773
Facility Status: Case Closed
Case Number: 3792
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 3/8/1989
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Status: Case Closed
Record Id: RO0000699
PE: 5602

AF137 **DUTRO SITE** **VCP** **S111022976**
SE **1333-1379 62ND STREET** **ENVIROSTOR** **N/A**
1/4-1/2 **EMERYVILLE, CA 94608**
0.492 mi.
2596 ft. **Site 1 of 2 in cluster AF**

Relative:
Higher

Actual:
20 ft.

VCP:
Facility ID: 60001478
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program

DUTRO SITE (Continued) **S111022976**

Project Manager:	Karen Toth
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Programs Code:	Not reported
Status:	No Further Action
Status Date:	01/18/2011
Restricted Use:	NO
Funding:	EPA Grant
Lat/Long:	37.84307 / -122.2893
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - OTHER
Potential COC:	30013, 30019, 30024, 3002502
Confirmed COC:	30013,30019,30024,3002502
Potential Description:	SOIL
Alias Name:	60001478
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Further Action Letter
Completed Date:	01/18/2011
Comments:	DTSC concurred with Emeryville's approval of No Further Action.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	01/18/2011
Comments:	The remedial plan consisted of excavation and off-site disposal of soil containing constituents of concern exceeding the remedial goals. Several pre-remediation activities were conducted prior to soil excavation, including demolition of site buildings and other infrastructure, additional soil sampling to further refine the areas and depths of soil to be excavated, permitting, and locating utilities. A total of approximately 1,800 cubic yards of soil classified as Class I non-RCRA hazardous waste were transported to and disposed at WMI?s Kettleman Hills Facility located in Kettleman City, California. Approximately 3,400 cubic yards of soil designated as Class II waste was transported to and disposed at the West Contra Costa Sanitary Landfill in Richmond, California. A total of 225 confirmation samples were collected to verify that cleanup goals were met. Confirmation soil sample results and locations are presented in Tables 8 and 14 and on Figures 4 through 7 of the Completion Report, respectively. Concentrations of constituents of concern were below cleanup goals in all of the final confirmation samples collected on the Site.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported

DUTRO SITE (Continued) **S111022976**

Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.2
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Karen Toth
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60001478
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: No Further Action
Status Date: 01/18/2011
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: EPA Grant
Latitude: 37.84307
Longitude: -122.2893
APN: NONE SPECIFIED
Past Use: MANUFACTURING - OTHER
Potential COC: Lead, Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel, TPH-MOTOR OIL
Confirmed COC: Lead, Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel, TPH-MOTOR OIL, Lead, Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel, TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: 60001478
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 01/18/2011
Comments: DTSC concurred with Emeryville's approval of No Further Action.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/18/2011
Comments: The remedial plan consisted of excavation and off-site disposal of soil containing constituents of concern exceeding the remedial goals. Several pre-remediation activities were conducted prior to soil excavation, including demolition of site buildings and other infrastructure, additional soil sampling to further refine the areas and depths of soil to be excavated, permitting, and locating utilities. A total of approximately 1,800 cubic yards of soil classified as Class I non-RCRA hazardous waste were transported to and disposed at WMI?s Kettleman Hills Facility located in Kettleman City, California. Approximately 3,400 cubic yards of soil designated as Class II waste was transported to and disposed at the West Contra

DUTRO SITE (Continued) **S111022976**

Costa Sanitary Landfill in Richmond, California. A total of 225 confirmation samples were collected to verify that cleanup goals were met. Confirmation soil sample results and locations are presented in Tables 8 and 14 and on Figures 4 through 7 of the Completion Report, respectively. Concentrations of constituents of concern were below cleanup goals in all of the final confirmation samples collected on the Site.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AF138 **DUTRO COMPANY** **RCRA-SQG** **1000880922**
SE **1333 62ND STREET** **FINDS** **CAD009117367**
1/4-1/2 **EMERYVILLE, CA** **HIST CORTESE**
0.492 mi. **LUST**
2596 ft. **Site 2 of 2 in cluster AF** **SLIC**
Alameda County CS
Relative: **HAZNET**
Higher **EMI**

Actual: **20 ft.**

RCRA-SQG:

Date form received by agency:	06/01/1993
Facility name:	DUTRO COMPANY
Facility address:	1333 62ND STREET EMERYVILLE, CA 94608
EPA ID:	CAD009117367
Mailing address:	P O BOX EIGHTY EIGHTH THOUSAN EMERYVILLE, CA 94662
Contact:	JOHN BENSON
Contact address:	1333 62ND STREET EMERYVILLE, CA 94608
Contact country:	US
Contact telephone:	(510) 652-9130
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator

DUTRO COMPANY (Continued) **1000880922**

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

Owner/operator name: WILLIAM DUTRO AND VICKI DAVIS
Owner/operator address: P O BOX 88447
EMERYVILLE, CA 94662
Owner/operator country: Not reported
Owner/operator telephone: (510) 652-9130
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Violation Status: No violations found

FINDS:

Registry ID: 110002635042

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

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

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

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

DUTRO COMPANY (Continued) **1000880922**

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0523

LUST:
Region: STATE
Global Id: T0600100477
Latitude: 37.843457
Longitude: -122.2888941
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/09/2009
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 01-0523
LOC Case Number: 01-0523
File Location: Local Agency
Potential Media Affect: Not reported
Potential Contaminants of Concern: Gasoline
Site History: Not reported

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

Status History:
Global Id: T0600100477
Status: Completed - Case Closed
Status Date: 10/22/1997

Global Id: T0600100477
Status: Completed - Case Closed
Status Date: 07/09/2009

Global Id: T0600100477
Status: Open - Case Begin Date
Status Date: 05/30/1990

Global Id: T0600100477
Status: Open - Site Assessment
Status Date: 05/30/1990

Regulatory Activities:
Global Id: T0600100477
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100477
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100477
Action Type: ENFORCEMENT

DUTRO COMPANY (Continued) **1000880922**

Date: 07/09/2009
Action: File Review - Closure

Global Id: T0600100477
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100477
Action Type: ENFORCEMENT
Date: 10/22/1997
Action: Closure/No Further Action Letter

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 11/09/2004
Global Id: T06019727572
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0002854
Latitude: 37.843463
Longitude: -122.288939
Case Type: Cleanup Program Site
Case Worker: SP
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Trichloroethylene (TCE), Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating, Polynuclear aromatic hydrocarbons (PAHs)
Site History: The City of Emeryville proposed the redevelopment of this parcel, previously occupied by the Dutro Company a manufacturer of hand trucks and dollies. Twenty-two soil bores were installed in July 2004 as a part of a preliminary site assessment and analysis for TPHd, TPHmo, TPHg, BTEX, MTBE, VOCs, SVOCs, PAHs, PCBs, and metals was conducted in soil. In groundwater, analysis for TPHd, TPHmo, TPHg, MTBE, VOCs, and metals was conducted in select bores. A remedial action plan was generated in October 2007; however, a final report has not been submitted. A "Closure of Underground Storage Tank" letter for two former USTs that were apparently removed in February 1990 was issued on October 22, 1997. No data relative to these USTs is otherwise known. The referenced letter requested further information on the detected presence of 110 ug/l TCE in groundwater as requested in a March 9, 1995 directive letter. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

Alameda County CS:
Status: 11
Record Id: RO0002854
PE: 5502

DUTRO COMPANY (Continued) **1000880922**

HAZNET:

Year:	2006
Gepaid:	CAD009117367
Contact:	JOHN BENSON
Telephone:	5106529130
Mailing Name:	Not reported
Mailing Address:	PO BOX 88447
Mailing City,St,Zip:	EMERYVILLE, CA 946620421
Gen County:	Not reported
TSD EPA ID:	ARD981057870
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Not reported
Tons:	0.5
Facility County:	Alameda

Year:	1996
Gepaid:	CAD009117367
Contact:	CORPORATION
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 88447
Mailing City,St,Zip:	EMERYVILLE, CA 946620421
Gen County:	Not reported
TSD EPA ID:	UTD048406144
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Recycler
Tons:	.6880
Facility County:	1

Year:	1994
Gepaid:	CAD009117367
Contact:	CORPORATION
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 88447
Mailing City,St,Zip:	EMERYVILLE, CA 946620421
Gen County:	Not reported
TSD EPA ID:	UTD048406144
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Recycler
Tons:	.2293
Facility County:	1

Year:	1993
Gepaid:	CAD009117367
Contact:	CORPORATION
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	PO BOX 88447
Mailing City,St,Zip:	EMERYVILLE, CA 946620421
Gen County:	Not reported
TSD EPA ID:	UTD048406144
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture

DUTRO COMPANY (Continued) **1000880922**

Disposal Method: Recycler
Tons: 3.21090000000
Facility County: 1

EMI:

Year:	2003
County Code:	1
Air Basin:	SF
Facility ID:	15244
Air District Name:	BA
SIC Code:	3499
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	1
Air Basin:	SF
Facility ID:	15244
Air District Name:	BA
SIC Code:	3499
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.806
Reactive Organic Gases Tons/Yr:	0.7962474
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2005
County Code:	1
Air Basin:	SF
Facility ID:	15244
Air District Name:	BA
SIC Code:	3499
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.806
Reactive Organic Gases Tons/Yr:	.7962474
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year: 2006

DUTRO COMPANY (Continued) **1000880922**

County Code:	1
Air Basin:	SF
Facility ID:	15244
Air District Name:	BA
SIC Code:	3499
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.806
Reactive Organic Gases Tons/Yr:	.7962474
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

139
ESE
1/2-1
0.510 mi.
2692 ft.

Relative:
Higher

Actual:
37 ft.

1171 OCEAN AVENUE
1171 OCEAN AVENUE
OAKLAND, CA 94608

HIST CORTESE **S102425028**
LUST **N/A**
SLIC
Alameda County CS
VCP
ENVIROSTOR

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0165

LUST:

Region:	STATE
Global Id:	T0600100153
Latitude:	37.84658
Longitude:	-122.28651
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/02/1996
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-0165
LOC Case Number:	RO0000858
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

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

Contact:

Global Id:	T0600100153
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

1171 OCEAN AVENUE (Continued) **S102425028**

Global Id: T0600100153
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0600100153
Status: Completed - Case Closed
Status Date: 05/02/1996

Global Id: T0600100153
Status: Open - Case Begin Date
Status Date: 02/01/1988

Regulatory Activities:
Global Id: T0600100153
Action Type: ENFORCEMENT
Date: 04/01/1996
Action: State Water Board Closure Order

Global Id: T0600100153
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600100153
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-0165
Facility Status: Case Closed
Case Number: 307
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 12/26/1989
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC:
Region: STATE
Facility Status: Open - Site Assessment

1171 OCEAN AVENUE (Continued) **S102425028**

Status Date:	05/18/2006
Global Id:	SLT19794747
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number:	60000896
Latitude:	37.846583
Longitude:	-122.28663
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Trichloroethylene (TCE), Gasoline
Site History:	Not reported

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

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000858
PE:	5602

Status:	11
Record Id:	RO0002937
PE:	5502

Status:	Preliminary Site Assessment Underway
Record Id:	RO0002937
PE:	5502

Status:	Pollution Characterization
Record Id:	RO0002937
PE:	5502

VCP:

Facility ID:	60000896
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.74
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jacinto Soto
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201807
Assembly:	15
Senate:	09
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	05/05/2008
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.84658 / -122.2865

1171 OCEAN AVENUE (Continued) **S102425028**

APN:	016-1467-017-01, 16-1467-17-1
Past Use:	UNKNOWN
Potential COC:	30027, 30195, 30196
Confirmed COC:	30195,30196,30027
Potential Description:	OTH, SOIL, SV
Alias Name:	016-1467-017-01
Alias Type:	APN
Alias Name:	16-1467-17-1
Alias Type:	APN
Alias Name:	SLT19794747
Alias Type:	GeoTracker Global ID
Alias Name:	201807
Alias Type:	Project Code (Site Code)
Alias Name:	60000896
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	06/12/2012
Comments:	Letter requesting to cease further environmental work due to financial issues.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	01/26/2010
Comments:	Based on groundwater, soil, soil gas, and indoor air sampling data collected at the Site, DTSC will not require restrictions on the use of the Site as part of the cleanup. Since in-situ groundwater cleanup is the proposed remedy in the Draft Removal Action Workplan (Draft RAW), access must be provided for implementation (injections) and monitoring of the wells. If conditions at the site change, (i.e. groundwater concentrations rise significantly) DTSC would need to re-evaluate the potential for indoor air effects.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/15/2011
Comments:	Annual cost estimate.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	06/07/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	07/01/2008
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate

1171 OCEAN AVENUE (Continued) **S102425028**

Completed Date:	09/09/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	01/25/2012
Comments:	Demand letter #1
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/11/2012
Comments:	Annual cost estimate.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/12/2006
Comments:	Supplement to Phase II Investigation: 32 soil samples, 10 Groundwater grab samples tested. Highest TCE detection in groundwater: 5200 ug/L at 36 ft bgs (middle of parcel, closer to 1171 Ocean Avenue.) No soil source for TCE Identified.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	11/22/2006
Comments:	Supplement to Phase III Investigation: 4 grab groundwater samples taken. Highest detection was an on-site sample from the southeast corner near the warehouse roll-up door: 6,000 micrograms per liter TCE at 36 feet below ground surface.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/26/2007
Comments:	Report with results of sampling to supplement Phase III and IV Investigations- greatest detections of TCE found in southeast corner of site near warehouse roll-up door: greatest groundwater detection of 10,000 micrograms per liter TCE at 36 feet below ground surface, and soil-gas detection of 860 micrograms per cubic meter (only soil gas detection onsite.) Five off-site soil and groundwater samples taken- no detections of same magnitude as onsite detections, indicating onsite TCE is not from an upgradient, off-site source.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	04/24/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	10/26/2011
Comments:	Approval of the Removal Action Completion and Third Quarter 2010

1171 OCEAN AVENUE (Continued) **S102425028**

Groundwater Monitoring Report for the site located at 1171 Ocean Avenue in Oakland, California. The report documents the implementation of the Removal Action Workplan, which was approved by the Department of Toxic Substance Control in June 2010. The remedy entailed the injection of the in-situ Regenesis compounds RegenOxO and HRCO. These compounds were advanced into separate areas of the trichloroethylene-dominated plume underlying the site. Following a year of quarterly post injection monitoring a workplan will be developed to propose the additional injections along with additional wells and monitoring analytes indicated by the data reviewed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/12/2010
Comments: Fact Sheet has been sent out to the site mailing list.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/12/2010
Comments: Public Notice was published in the local newspaper on April 14, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/09/2008
Comments: Per letter dated 10/06/2009, data from report incorporated into draft RAW. Results from monitoring event consistent with previous site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/06/2009
Comments: Per letter dated 10/06/2009, data from report incorporated into draft RAW. Results from monitoring event consistent with previous site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/06/2009
Comments: Per letter dated 10/06/2009, data from report incorporated into draft RAW. Results from monitoring event consistent with previous site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/06/2009
Comments: Per letter dated 10/06/2009, data from report incorporated into draft RAW. Results from monitoring event consistent with previous site characterization.

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

1171 OCEAN AVENUE (Continued) **S102425028**

Completed Document Type: Other Report
Completed Date: 10/07/2008
Comments: Indoor air sampling performed without approval from DTSC. Per letter dated 10/06/2009, data from sampling incorporated into draft RAW. Results indicate concentrations of VOCs above indoor air CHHSLs detected under worst case scenario (sampling performed without ventilation, after years of being closed.)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/08/2009
Comments: Indoor air sampling performed without formal approval from DTSC. Per letter dated 10/06/2009, data from sampling incorporated into draft RAW. Results indicate concentrations of VOCs were not detected if HVAC system was operated on a normal schedule. A follow up indoor air survey was performed subsequently to show results from worst case scenario under HVAC operation (run HVAC Friday, turn off end of Friday and leave off for duration of weekend, and samples taken on Monday.)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/04/2010
Comments: First quarter 2010 groundwater monitoring report.This report documents the Q1-2010 groundwater monitoring event conducted on February 26, 2010. This is the seventh consecutive groundwater monitoring event at this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/24/2010
Comments: This report documents the Q2-2010 groundwater monitoring event conducted on May 6, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/03/2011
Comments: The Department of Toxic Substances Control (DTSC) has approved revised First Quarter 2011, dated July 21,2011. Additional comments on the First Quarter 2011 Groundwater Monitoring Report will be addressed in future quarterly monitoring reports.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/15/2012
Comments: DTSC comments will be addressed at a later time due to RP’s financial dificulties.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/06/2012

1171 OCEAN AVENUE (Continued) **S102425028**

Comments:	PM and GSU comments will be addressed at a later time due to RP's financial dificulties.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	04/01/2010
Comments:	Determination of completeness of application.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	10/03/2011
Comments:	The Department of Toxic Substances Control has approved the Second Quarter 2011 Groundwater Monitoring Report. Comments on the Second Quarter 2011 Groundwater Monitoring Report are to be addressed in future quarterly monitoring reports.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	08/16/2012
Comments:	All wells show TCE levels above the MCL, with the highest concentration of 20,000 8g/L at the remnant source area represented by well MW-3B. At this time, due to the property owner?s fiscal constrains, the groundwater monitoring will continue at a reduced period of annual monitoring during the recharge season (February) sampling.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	07/18/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/31/2008
Comments:	Groundwater monitoring wells installed 7/30/2008; to be developed and sampled.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	10/06/2009
Comments:	Information from report integrated into draft RAW. No elevated detections of TCE found in soil in trenched area near roll-up warehouse door of office building.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	06/07/2010
Comments:	DTSC approved The RAW for implementation. Removal activities will be implemented in the summer.

1171 OCEAN AVENUE (Continued) **S102425028**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/12/2010
Comments: Field work is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Newsletter
Completed Date: 07/15/2008
Comments: Work Notice mailed to community July 16, 2008.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.74
NPL: NO
Regulatory Agencies: SMBRP, ALAMEDA COUNTY
Lead Agency: SMBRP
Program Manager: Jacinto Soto
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60000896
Site Code: 201807
Assembly: 15
Senate: 09
Special Program: Voluntary Cleanup Program
Status: Active
Status Date: 05/05/2008
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.84658
Longitude: -122.2865
APN: 016-1467-017-01, 16-1467-17-1
Past Use: UNKNOWN
Potential COC: Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans
Confirmed COC: Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Trichloroethylene (TCE
Potential Description: OTH, SOIL, SV
Alias Name: 016-1467-017-01
Alias Type: APN
Alias Name: 16-1467-17-1
Alias Type: APN
Alias Name: SLT19794747

1171 OCEAN AVENUE (Continued) **S102425028**

Alias Type: GeoTracker Global ID
Alias Name: 201807
Alias Type: Project Code (Site Code)
Alias Name: 60000896
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/12/2012
Comments: Letter requesting to cease further environmental work due to financial issues.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/26/2010
Comments: Based on groundwater, soil, soil gas, and indoor air sampling data collected at the Site, DTSC will not require restrictions on the use of the Site as part of the cleanup. Since in-situ groundwater cleanup is the proposed remedy in the Draft Removal Action Workplan (Draft RAW), access must be provided for implementation (injections) and monitoring of the wells. If conditions at the site change, (i.e. groundwater concentrations rise significantly) DTSC would need to re-evaluate the potential for indoor air effects.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2011
Comments: Annual cost estimate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/01/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/25/2012
Comments: Demand letter #1

Completed Area Name: PROJECT WIDE

1171 OCEAN AVENUE (Continued) **S102425028**

Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/11/2012
Comments: Annual cost estimate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/12/2006
Comments: Supplement to Phase II Investigation: 32 soil samples, 10 Groundwater grab samples tested. Highest TCE detection in groundwater: 5200 ug/L at 36 ft bgs (middle of parcel, closer to 1171 Ocean Avenue.) No soil source for TCE Identified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/22/2006
Comments: Supplement to Phase III Investigation: 4 grab groundwater samples taken. Highest detection was an on-site sample from the southeast corner near the warehouse roll-up door: 6,000 micrograms per liter TCE at 36 feet below ground surface.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2007
Comments: Report with results of sampling to supplement Phase III and IV Investigations- greatest detections of TCE found in southeast corner of site near warehouse roll-up door: greatest groundwater detection of 10,000 micrograms per liter TCE at 36 feet below ground surface, and soil-gas detection of 860 micrograms per cubic meter (only soil gas detection onsite.) Five off-site soil and groundwater samples taken- no detections of same magnitude as onsite detections, indicating onsite TCE is not from an upgradient, off-site source.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 04/24/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/26/2011
Comments: Approval of the Removal Action Completion and Third Quarter 2010 Groundwater Monitoring Report for the site located at 1171 Ocean Avenue in Oakland, California. The report documents the implementation of the Removal Action Workplan, which was approved by the Department of Toxic Substance Control in June 2010. The remedy entailed the injection of the in-situ Regenesis compounds RegenOxO and HRCO. These compounds were advanced into separate areas of the trichloroethylene-dominated plume underlying the site. Following a year of quarterly post injection monitoring a workplan will be developed to propose the additional injections along with additional wells and monitoring analytes indicated by the data reviewed.

1171 OCEAN AVENUE (Continued) **S102425028**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/12/2010
Comments: Fact Sheet has been sent out to the site mailing list.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/12/2010
Comments: Public Notice was published in the local newspaper on April 14, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/09/2008
Comments: Per letter dated 10/06/2009, data from report incorporated into draft RAW. Results from monitoring event consistent with previous site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/06/2009
Comments: Per letter dated 10/06/2009, data from report incorporated into draft RAW. Results from monitoring event consistent with previous site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/06/2009
Comments: Per letter dated 10/06/2009, data from report incorporated into draft RAW. Results from monitoring event consistent with previous site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/06/2009
Comments: Per letter dated 10/06/2009, data from report incorporated into draft RAW. Results from monitoring event consistent with previous site characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/07/2008
Comments: Indoor air sampling performed without approval from DTSC. Per letter dated 10/06/2009, data from sampling incorporated into draft RAW. Results indicate concentrations of VOCs above indoor air CHHSLs detected under worst case scenario (sampling performed without ventilation, after years of being closed.)

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

1171 OCEAN AVENUE (Continued) **S102425028**

Completed Date:	01/08/2009
Comments:	Indoor air sampling performed without formal approval from DTSC. Per letter dated 10/06/2009, data from sampling incorporated into draft RAW. Results indicate concentrations of VOCs were not detected if HVAC system was operated on a normal schedule. A follow up indoor air survey was performed subsequently to show results from worst case scenario under HVAC operation (run HVAC Friday, turn off end of Friday and leave off for duration of weekend, and samples taken on Monday.)
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	04/04/2010
Comments:	First quarter 2010 groundwater monitoring report.This report documents the Q1-2010 groundwater monitoring event conducted on February 26, 2010. This is the seventh consecutive groundwater monitoring event at this site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	06/24/2010
Comments:	This report documents the Q2-2010 groundwater monitoring event conducted on May 6, 2010.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	10/03/2011
Comments:	The Department of Toxic Substances Control (DTSC) has approved revised First Quarter 2011, dated July 21,2011. Additional comments on the First Quarter 2011 Groundwater Monitoring Report will be addressed in future quarterly monitoring reports.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/15/2012
Comments:	DTSC comments will be addressed at a later time due to RP’s financial dificulties.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/06/2012
Comments:	PM and GSU comments will be addressed at a later time due to RP’s financial dificulties.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	04/01/2010
Comments:	Determination of completeness of application.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

1171 OCEAN AVENUE (Continued) **S102425028**

Completed Document Type:	Monitoring Report
Completed Date:	10/03/2011
Comments:	The Department of Toxic Substances Control has approved the Second Quarter 2011 Groundwater Monitoring Report. Comments on the Second Quarter 2011 Groundwater Monitoring Report are to be addressed in future quarterly monitoring reports.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	08/16/2012
Comments:	All wells show TCE levels above the MCL, with the highest concentration of 20,000 8g/L at the remnant source area represented by well MW-3B. At this time, due to the property owner?s fiscal constrains, the groundwater monitoring will continue at a reduced period of annual monitoring during the recharge season (February) sampling.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	07/18/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/31/2008
Comments:	Groundwater monitoring wells installed 7/30/2008; to be developed and sampled.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	10/06/2009
Comments:	Information from report integrated into draft RAW. No elevated detections of TCE found in soil in trenched area near roll-up warehouse door of office building.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	06/07/2010
Comments:	DTSC approved The RAW for implementation. Removal activities will be implemented in the summer.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	08/12/2010
Comments:	Field work is complete.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Newsletter
Completed Date:	07/15/2008
Comments:	Work Notice mailed to community July 16, 2008.

1171 OCEAN AVENUE (Continued) **S102425028**

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2015
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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140 NNE 1/2-1 0.513 mi. 2710 ft. **HEINZ/GRAYSON PLUME** **RESPONSE S108054448**
7TH STREET AND GRAYSON STREET **ENVIROSTOR N/A**
BERKELEY, CA 94710

Relative: Higher

Actual: 36 ft.

RESPONSE:

Facility ID:	60000399
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	15.1
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 2 - San Francisco Bay, CITY OF BERKELEY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	15
Senate:	09
Special Program Status:	Not reported
Status:	Refer: RWQCB
Status Date:	06/27/2007
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.85388
Longitude:	-122.2932
APN:	53-1655-2-2, 53-1655-3-15, 53-1655-8, 53-1655-9
Past Use:	UNKNOWN, UNKNOWN, UNKNOWN
Potential COC:	Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis
Confirmed COC:	Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, Lead, , Tetrachloroethylene (PCE, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 30028-NO, 1,2-Dichloroethylene (cis, , Tetrachloroethylene (PCE, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis
Potential Description:	OTH, SOIL, OTH, OTH, SOIL

HEINZ/GRAYSON PLUME (Continued) **S108054448**

Alias Name:	Airco Temescal
Alias Type:	Alternate Name
Alias Name:	Airco, Inc.
Alias Type:	Alternate Name
Alias Name:	Berkeley Arts Complex
Alias Type:	Alternate Name
Alias Name:	Berkeley Industrial Court
Alias Type:	Alternate Name
Alias Name:	Hall Scott Marine Engine Foundry
Alias Type:	Alternate Name
Alias Name:	Magic Gardens Nursery
Alias Type:	Alternate Name
Alias Name:	National Starch and Chemical Company
Alias Type:	Alternate Name
Alias Name:	Primal Screen
Alias Type:	Alternate Name
Alias Name:	Temescal Business Center
Alias Type:	Alternate Name
Alias Name:	53-1655-2-2
Alias Type:	APN
Alias Name:	53-1655-3-15
Alias Type:	APN
Alias Name:	53-1655-8
Alias Type:	APN
Alias Name:	53-1655-9
Alias Type:	APN
Alias Name:	110033613846
Alias Type:	EPA (FRS #)
Alias Name:	201672
Alias Type:	Site Code - Historical
Alias Name:	201673
Alias Type:	Site Code - Historical
Alias Name:	201674
Alias Type:	Site Code - Historical
Alias Name:	CAD980637235
Alias Type:	HWTS Identification Code
Alias Name:	01280069
Alias Type:	Envirostor ID Number
Alias Name:	60000399
Alias Type:	Envirostor ID Number
Alias Name:	60000400
Alias Type:	Envirostor ID Number
Alias Name:	60000668
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Berkeley Industrial Court
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	09/26/1981
Comments:	Facility identified from EPA Superfund list.

Completed Area Name:	Berkeley Industrial Court
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	02/15/2005
Comments:	Site screening determined that PCBs, lead, nickel, and petroleum hydrocarbons had previously been detected in soil samples collected

HEINZ/GRAYSON PLUME (Continued) **S108054448**

from the Berkeley Industrial Court site. The City of Berkeley has overseen sampling at the site in an effort to characterize chlorinated solvent occurrence in area groundwater.

Completed Area Name: National Starch and Chemical Company
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/12/2004
Comments: Site screening concluded that chlorinated solvents were present in groundwater beneath the National Starch site. The City of Berkeley has overseen sampling at the site in an effort to characterize the occurrence of chlorinated solvents in area groundwater.

Completed Area Name: Berkeley Industrial Court
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/01/1986
Comments: Confirmed DHS Preliminary Assessment information. Nine samples taken.
Not reported

Completed Area Name: Temescal Business Center
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/15/2005
Comments: Site screening determined that historic site uses had included automobile manufacturing, rebuilding of marine engines, and storage of chemical metal etching waste. The City of Berkeley has overseen sampling at the site in an effort to characterize the occurrence of chlorinated solvents in area groundwater.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 15.1
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 2 - San Francisco Bay, CITY OF BERKELEY
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60000399
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Refer: RWQCB
Status Date: 06/27/2007

HEINZ/GRAYSON PLUME (Continued) **S108054448**

Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.85388
Longitude:	-122.2932
APN:	53-1655-2-2, 53-1655-3-15, 53-1655-8, 53-1655-9
Past Use:	UNKNOWN, UNKNOWN, UNKNOWN
Potential COC:	Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis
Confirmed COC:	Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, Nickel, Lead, , Tetrachloroethylene (PCE, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 30028-NO, 1,2-Dichloroethylene (cis, , Tetrachloroethylene (PCE, Tetrachloroethylene (PCE, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis
Potential Description:	OTH, SOIL, OTH, OTH, SOIL
Alias Name:	Airco Temescal
Alias Type:	Alternate Name
Alias Name:	Airco, Inc.
Alias Type:	Alternate Name
Alias Name:	Berkeley Arts Complex
Alias Type:	Alternate Name
Alias Name:	Berkeley Industrial Court
Alias Type:	Alternate Name
Alias Name:	Hall Scott Marine Engine Foundry
Alias Type:	Alternate Name
Alias Name:	Magic Gardens Nursery
Alias Type:	Alternate Name
Alias Name:	National Starch and Chemical Company
Alias Type:	Alternate Name
Alias Name:	Primal Screen
Alias Type:	Alternate Name
Alias Name:	Temescal Business Center
Alias Type:	Alternate Name
Alias Name:	53-1655-2-2
Alias Type:	APN
Alias Name:	53-1655-3-15
Alias Type:	APN
Alias Name:	53-1655-8
Alias Type:	APN
Alias Name:	53-1655-9
Alias Type:	APN
Alias Name:	110033613846
Alias Type:	EPA (FRS #)
Alias Name:	201672
Alias Type:	Site Code - Historical
Alias Name:	201673
Alias Type:	Site Code - Historical
Alias Name:	201674

HEINZ/GRAYSON PLUME (Continued) **S108054448**

Alias Type: Site Code - Historical
Alias Name: CAD980637235
Alias Type: HWTS Identification Code
Alias Name: 01280069
Alias Type: Envirostor ID Number
Alias Name: 60000399
Alias Type: Envirostor ID Number
Alias Name: 60000400
Alias Type: Envirostor ID Number
Alias Name: 60000668
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Berkeley Industrial Court
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/26/1981
Comments: Facility identified from EPA Superfund list.

Completed Area Name: Berkeley Industrial Court
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/15/2005
Comments: Site screening determined that PCBs, lead, nickel, and petroleum hydrocarbons had previously been detected in soil samples collected from the Berkeley Industrial Court site. The City of Berkeley has overseen sampling at the site in an effort to characterize chlorinated solvent occurrence in area groundwater.

Completed Area Name: National Starch and Chemical Company
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/12/2004
Comments: Site screening concluded that chlorinated solvents were present in groundwater beneath the National Starch site. The City of Berkeley has overseen sampling at the site in an effort to characterize the occurrence of chlorinated solvents in area groundwater.

Completed Area Name: Berkeley Industrial Court
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/01/1986
Comments: Confirmed DHS Preliminary Assessment information. Nine samples taken. Not reported

Completed Area Name: Temescal Business Center
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/15/2005
Comments: Site screening determined that historic site uses had included automobile manufacturing, rebuilding of marine engines, and storage of chemical metal etching waste. The City of Berkeley has overseen sampling at the site in an effort to characterize the occurrence of chlorinated solvents in area groundwater.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

HEINZ/GRAYSON PLUME (Continued) **S108054448**

Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

141
South
1/2-1
0.524 mi.
2769 ft.

EMERYVILLE MARKETPLACE
BTW 64TH & POWELL ST ON N & S, BY HWY 80
EMERYVILLE, CA 94608

HIST Cal-Sites **S102008178**
HIST CORTESE **N/A**
DEED
RESPONSE
ENVIROSTOR

Relative:
Lower

Actual:
11 ft.

Calsite:

Facility ID:	01290021
Region:	2
Region Name:	BERKELEY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	11071995
Status:	CERTIFIED OPERATION AND MAINTENANCE, ALL PLANNED ACTIVITIES IMPLEMENTED, REMEDIATION CONTINUES
Status Name:	CERTIFIED / OPERATION & MAINTENANCE
Lead Agency:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	RP
Type Name:	RESPONSIBLE PARTY
NPL:	Not Listed
SIC Code:	29
SIC Name:	MANU - PETROLEUM & COAL PRODUCTS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
Staff Member Responsible for Site:	AFONE
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	14
State Senate District Code:	09
Facility ID:	01290021
Activity:	DISC
Activity Name:	DISCOVERY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09241983
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM

EMERYVILLE MARKETPLACE (Continued) **S102008178**

Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01290021
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08071995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	12
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01290021
Activity:	5YEAR
Activity Name:	FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09292003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0

EMERYVILLE MARKETPLACE (Continued) **S102008178**

For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 01290021
Activity: 5YEAR
Activity Name: FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 09302008
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: COM
Definition of Status: CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: BTW 64TH & POWELL ST ON N & S, BY HWY 80
Alternate City,St,Zip: EMERYVILLE, CA 94608
Background Info: The site is Emeryville Market Place. The Site has been used for the manufacture of bituminous roofing products (tar paper), blending and packaging of oil-based paints and enamels, and as a trucking facility. The contaminants detected at the site include hydrocarbons, asphalt-like materials, and waste tar paper material. The Alameda County Environmental Health Department oversaw the site remediation. The hydrocarbon material was excavated, treated, and transported off-site for disposal.
Comments Date: 08071995
Comments: Recorded Deed Restriction.
Comments Date: 09292003
Comments: Completed Five-Year Review.
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD980694418
Alternate Name: EMERYVILLE MARKETPLACEPABCO COMPANY
Special Programs Code: R3012
Special Programs Name: RCRA 3012

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01290021

DEED:
Area: PROJECT WIDE

EMERYVILLE MARKETPLACE (Continued) **S102008178**

Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Deed Date(s): 08/07/1995
EDR Link ID: 1290021

RESPONSE:

Facility ID:	01290021
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	DAY, ELD, HOS, LUC, EX, RES
Assembly:	15
Senate:	09
Special Program Status:	Not reported
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	11/07/1995
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	37.84140
Longitude:	-122.2938
APN:	049 149201100, 049 149301005, 049-1492-011-00, 049-1493-010-02, 049-1493-010-03
Past Use:	MANUFACTURING - OTHER
Potential COC:	Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC:	Polynuclear aromatic hydrocarbons (PAHs, 30019-NO
Potential Description:	SOIL
Alias Name:	Emery Bay Market Place
Alias Type:	Alternate Name
Alias Name:	Emery Bay Marketplace
Alias Type:	Alternate Name
Alias Name:	Emeryville Market
Alias Type:	Alternate Name
Alias Name:	PABCO COMPANY
Alias Type:	Alternate Name
Alias Name:	049 149201100
Alias Type:	APN
Alias Name:	049 149301005
Alias Type:	APN
Alias Name:	049-1492-011-00
Alias Type:	APN
Alias Name:	049-1493-010-02
Alias Type:	APN
Alias Name:	049-1493-010-03
Alias Type:	APN
Alias Name:	CAD980694418
Alias Type:	EPA Identification Number
Alias Name:	110033616264
Alias Type:	EPA (FRS #)

EMERYVILLE MARKETPLACE (Continued) **S102008178**

Alias Name: 01290021
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/18/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/16/2012
Comments: This letter informed DTSC that Emeryville Marketplace will have a new owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/31/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 11/21/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/11/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/23/2009
Comments: Upon observing the current site conditions, DTSC concludes that the selected remedial action remains protective of human health and the environment. Petroleum-impacted soil remains under the asphalt and concrete surfaces and landscaped areas, effectively eliminating any potential for exposure. However, the cracks observed during the inspection should be repaired so the cap covering the Site will continue to be protective of human health.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 09/29/2003
Comments: Completed Five-Year Review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/03/2007
Comments: The cap is in good condition with only a few surficial cracks

EMERYVILLE MARKETPLACE (Continued) **S102008178**

observed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/07/1995
Comments: Recorded Deed Restriction. The original covenant was signed by Chirstie Avenue Partners. The property has subsequently been sold to an entity with which Christie Avenue partners has an equity interest.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/24/1983
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/02/2008
Comments: The cap appeared to be in good condition with only a few minor cracks observed and remains protective of human health.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/17/2012
Comments: Excavation was being conducted east of the Emeryville Market Place building. However, the excavation is not being conducted in the area restricted by the Land Use Covenant. The cap appears to be in good condition and remains protective of human health.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/25/2009
Comments: The property is currently the location of an asphalt parking lot landscaped with palm trees, a grassy area containing trees (at 18o above grade) and other trees contained by concrete planters in the Woodfin Suite Parking Lot. Cracks were observed along the west side of the Emeryville Marketplace building and need repair. Otherwise, the cap covering the Site is in good condition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/24/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/01/1984
Comments: The Preliminary Assessment concluded that soil and groundwater samples showed no significant comtamination; subsequently, no further action was recommended.

EMERYVILLE MARKETPLACE (Continued) **S102008178**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/02/2003
Comments: Cap Inspection Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/15/2004
Comments: Cap Inspection Report signed off 7/15/04.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/01/2005
Comments: Cap Inspection Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/09/2009
Comments: The Public Notice was run on September 9th in Oakland Tribune.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 09/05/2013
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 01/12/2014
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 10
NPL: NO
Regulatory Agencies: SMBRP, ALAMEDA COUNTY
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01290021
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Certified O&M - Land Use Restrictions Only
Status Date: 11/07/1995
Restricted Use: YES

EMERYVILLE MARKETPLACE (Continued) **S102008178**

Site Mgmt. Req.:	DAY, ELD, HOS, LUC, EX, RES
Funding:	Responsible Party
Latitude:	37.84140
Longitude:	-122.2938
APN:	049 149201100, 049 149301005, 049-1492-011-00, 049-1493-010-02, 049-1493-010-03
Past Use:	MANUFACTURING - OTHER
Potential COC:	Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC:	Polynuclear aromatic hydrocarbons (PAHs, 30019-NO
Potential Description:	SOIL
Alias Name:	Emery Bay Market Place
Alias Type:	Alternate Name
Alias Name:	Emery Bay Marketplace
Alias Type:	Alternate Name
Alias Name:	Emeryville Market
Alias Type:	Alternate Name
Alias Name:	PABCO COMPANY
Alias Type:	Alternate Name
Alias Name:	049 149201100
Alias Type:	APN
Alias Name:	049 149301005
Alias Type:	APN
Alias Name:	049-1492-011-00
Alias Type:	APN
Alias Name:	049-1493-010-02
Alias Type:	APN
Alias Name:	049-1493-010-03
Alias Type:	APN
Alias Name:	CAD980694418
Alias Type:	EPA Identification Number
Alias Name:	110033616264
Alias Type:	EPA (FRS #)
Alias Name:	01290021
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	10/18/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	10/16/2012
Comments:	This letter informed DTSC that Emeryville Marketplace will have a new owner.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	01/31/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit

EMERYVILLE MARKETPLACE (Continued) **S102008178**

Completed Date: 11/21/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/11/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/23/2009
Comments: Upon observing the current site conditions, DTSC concludes that the selected remedial action remains protective of human health and the environment. Petroleum-impacted soil remains under the asphalt and concrete surfaces and landscaped areas, effectively eliminating any potential for exposure. However, the cracks observed during the inspection should be repaired so the cap covering the Site will continue to be protective of human health.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 09/29/2003
Comments: Completed Five-Year Review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/03/2007
Comments: The cap is in good condition with only a few surficial cracks observed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/07/1995
Comments: Recorded Deed Restriction. The original covenant was signed by Chirstie Avenue Partners. The property has subsequently been sold to an entity with which Christie Avenue partners has an equity interest.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/24/1983
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/02/2008
Comments: The cap appeared to be in good condition with only a few minor cracks observed and remains protective of human health.

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

EMERYVILLE MARKETPLACE (Continued) **S102008178**

Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/17/2012
Comments: Excavation was being conducted east of the Emeryville Market Place building. However, the excavation is not being conducted in the area restricted by the Land Use Covenant. The cap appears to be in good condition and remains protective of human health.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/25/2009
Comments: The property is currently the location of an asphalt parking lot landscaped with palm trees, a grassy area containing trees (at 18o above grade) and other trees contained by concrete planters in the Woodfin Suite Parking Lot. Cracks were observed along the west side of the Emeryville Marketplace building and need repair. Otherwise, the cap covering the Site is in good condition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/24/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/01/1984
Comments: The Preliminary Assessment concluded that soil and groundwater samples showed no significant comtamination; subsequently, no further action was recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/02/2003
Comments: Cap Inspection Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/15/2004
Comments: Cap Inspection Report signed off 7/15/04.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/01/2005
Comments: Cap Inspection Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/09/2009
Comments: The Public Notice was run on September 9th in Oakland Tribune.

Future Area Name: Not reported

EMERYVILLE MARKETPLACE (Continued) **S102008178**

Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Report
Schedule Due Date: 09/05/2013
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 01/12/2014
Schedule Revised Date: Not reported

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142 **US POSTAL SERVICE** **HIST CORTESE** **S103666871**
SSE **6121 HOLLIS ST** **LUST** **N/A**
1/2-1 **EMERYVILLE, CA 94608** **SLIC**
0.534 mi. **SWEEPS UST**
2818 ft. **ENVIROSTOR**

Relative:
Higher

Actual:
17 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1737

LUST REG 2:
Region: 2
Facility Id: 01-1737
Facility Status: Preliminary site assessment underway
Case Number: 4428
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC REG 2:
Region: 2
Facility ID: SLT2O06571
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported

US POSTAL SERVICE (Continued) **S103666871**

Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 8391
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-008391-000001
Actv Date: Not reported
Capacity: 550
Tank Use: UNKNOWN
Stg: PRODUCT
Content: Not reported
Number Of Tanks: 2

Status: Not reported
Comp Number: 8391
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-008391-000002
Actv Date: Not reported
Capacity: 550
Tank Use: UNKNOWN
Stg: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 8391
Number: 7
Board Of Equalization: Not reported
Referral Date: 07-21-93
Action Date: 04-22-94
Created Date: 04-22-94
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: Not reported
Actv Date: Not reported
Capacity: Not reported
Tank Use: Not reported
Stg: Not reported
Content: Not reported
Number Of Tanks: Not reported

ENVIROSTOR:

US POSTAL SERVICE (Continued) **S103666871**

Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 01500101
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 01/25/1996
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.84225
Longitude: -122.2908
APN: 49-1489-13-3
Past Use: NONE SPECIFIED
Potential COC: * CONTAMINATED SOIL, Polychlorinated biphenyls (PCBs
Confirmed COC: * CONTAMINATED SOIL, Polychlorinated biphenyls (PCBs, NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 49-1489-13-3
Alias Type: APN
Alias Name: 01500101
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/18/1987
Comments: SITE SCREENING DONE SI RECOM DUE TO LACK OF VERIFICATION OF MITIGATION. CURRENT OWNER HAS BULLDOZED PROPERTY IN PREPARATION FOR CONSTRUCTION OF NEW OFFICE BLDG (UNDER CONSTRUCTION). WESTINGHOUSE IS ADJACENT PROPERTY OWNER. DHS FILE FOR THIS SITE REFERENCES THE WESTINGHOUSE FILE.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

143
ENE
1/2-1
0.539 mi.
2847 ft.

MARCHANT CORPORATION SITE
6701 SAN PABLO AVENUE
BERKELEY, CA 94608

NPDES **S108054471**
VCP **N/A**
ENVIROSTOR

Relative:
Higher

Actual:
46 ft.

NPDES:

Npdes Number:	CAG912002
Facility Status:	Active
Agency Id:	538841
Region:	2
Regulatory Measure Id:	389232
Order No:	R2-2012-0012
Regulatory Measure Type:	Enrollee
Place Id:	791861
WDID:	2019483001
Program Type:	NPDESWW
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/27/2013
Expiration Date Of Regulatory Measure:	03/15/2017
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	LBA-RIV-Company XII, LLC Attn.: Ms. Elizabeth Trowbridge
Discharge Address:	2000 Powell Street 100
Discharge City:	Emeryville
Discharge State:	CA
Discharge Zip:	94608

VCP:

Facility ID:	60000410
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	7.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jacinto Soto
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201676
Assembly:	15
Senate:	09
Special Programs Code:	Not reported
Status:	Active
Status Date:	09/01/2006
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.85042 / -122.2875
APN:	016-1514-008, 016-1514-009, 049-1513-001, 049-1513-002, 049-1513-004-01, 049-1513-006, 052-1512-001-03, 052-1512-009, 052-1513-004, 052-1513-005, 052-1513-006-01, 053-1634-007, 053-1634-008, 053-1634-012, 053-1634-021, 053-1634-022, 52-1512-1-3
Past Use:	MANUFACTURING - OTHER
Potential COC:	30195, 30196, 30027, 30028
Confirmed COC:	30195,30196,30028,30027
Potential Description:	OTH
Alias Name:	1035-1039 Folger St.
Alias Type:	Alternate Name

MARCHANT CORPORATION SITE (Continued) **S108054471**

Alias Name:	840-900 Folger St. and 1284-1302 6th Street
Alias Type:	Alternate Name
Alias Name:	926 Murray Street
Alias Type:	Alternate Name
Alias Name:	940 Folger Street
Alias Type:	Alternate Name
Alias Name:	University of California Warehouse
Alias Type:	Alternate Name
Alias Name:	016-1514-008
Alias Type:	APN
Alias Name:	016-1514-009
Alias Type:	APN
Alias Name:	049-1513-001
Alias Type:	APN
Alias Name:	049-1513-002
Alias Type:	APN
Alias Name:	049-1513-004-01
Alias Type:	APN
Alias Name:	049-1513-006
Alias Type:	APN
Alias Name:	052-1512-001-03
Alias Type:	APN
Alias Name:	052-1512-009
Alias Type:	APN
Alias Name:	052-1513-004
Alias Type:	APN
Alias Name:	052-1513-005
Alias Type:	APN
Alias Name:	052-1513-006-01
Alias Type:	APN
Alias Name:	053-1634-007
Alias Type:	APN
Alias Name:	053-1634-008
Alias Type:	APN
Alias Name:	053-1634-012
Alias Type:	APN
Alias Name:	053-1634-021
Alias Type:	APN
Alias Name:	053-1634-022
Alias Type:	APN
Alias Name:	52-1512-1-3
Alias Type:	APN
Alias Name:	110033606293
Alias Type:	EPA (FRS #)
Alias Name:	201676
Alias Type:	Project Code (Site Code)
Alias Name:	60000410
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/22/2009
Comments:	DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.
Completed Area Name:	PROJECT WIDE

MARCHANT CORPORATION SITE (Continued) **S108054471**

Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/11/2007
Comments: VCA fully executed on 10-11-07. Scope of Work includes investigation and cleanup activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 01/27/2010
Comments: No comments were receive on the CEQA/NOE during the RAW public comment period. Therefore the NOE has been finalized.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 08/24/2009
Comments: This letter requests that UC pay for DTSC oversight costs incurred prior to the sale of the property of Redico.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/03/2009
Comments: Fact sheet is being mailed out the site mailing list.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/03/2009
Comments: Public notice is going to be published on December 4, 2009 on the local newspaper.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/17/2009
Comments: DTSC approves workplan on 6/17/09. RP consultant to incorporate revisions propsed in Response to DTSC Comments and submit final workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/03/2009
Comments: Field work was completed from October 2-3, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/03/2009

MARCHANT CORPORATION SITE (Continued) **S108054471**

Comments:	DTSC accepts interim remedial investigation data package, based on discussion of RP responses to DTSC comments at meeting with RP on 4/1/09. RP will submit supplemental workplan, including schedule for implementation and preparation of remedial investigation report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	10/12/2010
Comments:	REDICO requested a one-year delay to the timeframes outlined in the RAW for implementation of the remedial action. Request grant over the phone.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	02/12/2013
Comments:	Application for DTSC oversight by new property owner.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	07/22/2013
Comments:	Workplan is approved for implementation. Pilot test activities to start in July-August timeframe.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	05/21/2008
Comments:	First Amendment to VCA fully executed on 5/21/08. Site name under the VCA is changed to Marchant Corporation Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	08/03/2011
Comments:	Redico requested termination & closeout f the VCA as they no longer own the property.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	04/08/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/26/2007
Comments:	Review of existing data completed 11/26/07. Additional data for other properties to be submitted by RP.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	07/11/2008

MARCHANT CORPORATION SITE (Continued) **S108054471**

Comments:	Community profile completed and approved 7/11/08.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	03/03/2008
Comments:	Review of available supporitng documentation (chain of custody, lab reports, QA/QC) completed 3/3/08. Acknowledgment sent to RP via email 3/3/08.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	06/11/2008
Comments:	Workplan approved 6/11/08.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	11/19/2008
Comments:	RP consultant submitted sampling results and analytical reports via email on 11/19/08. Results available under "Interim Remedial Investigation Data Package" activity.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	01/25/2010
Comments:	Not reported
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Fact Sheets
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2015
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Plan
Future Due Date:	2015
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2016
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2016
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	CEQA - Notice of Exemption
Future Due Date:	2014
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

MARCHANT CORPORATION SITE (Continued) **S108054471**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 7.3
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jacinto Soto
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60000410
Site Code: 201676
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Active
Status Date: 09/01/2006
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.85042
Longitude: -122.2875
APN: 016-1514-008, 016-1514-009, 049-1513-001, 049-1513-002, 049-1513-004-01, 049-1513-006, 052-1512-001-03, 052-1512-009, 052-1513-004, 052-1513-005, 052-1513-006-01, 053-1634-007, 053-1634-008, 053-1634-012, 053-1634-021, 053-1634-022, 52-1512-1-3
Past Use: MANUFACTURING - OTHER
Potential COC: 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Trichloroethylene (TCE, Vinyl chloride
Confirmed COC: 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Trichloroethylene (TCE, Vinyl chloride, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Vinyl chloride, Trichloroethylene (TCE
Potential Description: OTH
Alias Name: 1035-1039 Folger St.
Alias Type: Alternate Name
Alias Name: 840-900 Folger St. and 1284-1302 6th Street
Alias Type: Alternate Name
Alias Name: 926 Murray Street
Alias Type: Alternate Name
Alias Name: 940 Folger Street
Alias Type: Alternate Name
Alias Name: University of California Warehouse
Alias Type: Alternate Name
Alias Name: 016-1514-008
Alias Type: APN
Alias Name: 016-1514-009
Alias Type: APN
Alias Name: 049-1513-001
Alias Type: APN
Alias Name: 049-1513-002
Alias Type: APN
Alias Name: 049-1513-004-01
Alias Type: APN
Alias Name: 049-1513-006

MARCHANT CORPORATION SITE (Continued) **S108054471**

Alias Type: APN
Alias Name: 052-1512-001-03
Alias Type: APN
Alias Name: 052-1512-009
Alias Type: APN
Alias Name: 052-1513-004
Alias Type: APN
Alias Name: 052-1513-005
Alias Type: APN
Alias Name: 052-1513-006-01
Alias Type: APN
Alias Name: 053-1634-007
Alias Type: APN
Alias Name: 053-1634-008
Alias Type: APN
Alias Name: 053-1634-012
Alias Type: APN
Alias Name: 053-1634-021
Alias Type: APN
Alias Name: 053-1634-022
Alias Type: APN
Alias Name: 52-1512-1-3
Alias Type: APN
Alias Name: 110033606293
Alias Type: EPA (FRS #)
Alias Name: 201676
Alias Type: Project Code (Site Code)
Alias Name: 60000410
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2009
Comments: DTSC oversight cost estimate and schedule for next fiscal year was sent to the RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/11/2007
Comments: VCA fully executed on 10-11-07. Scope of Work includes investigation and cleanup activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 01/27/2010
Comments: No comments were receive on the CEQA/NOE during the RAW public comment period. Therefore the NOE has been finalized.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/07/2010
Comments: Not reported

MARCHANT CORPORATION SITE (Continued) **S108054471**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 08/24/2009
Comments: This letter requests that UC pay for DTSC oversight costs incurred prior to the sale of the property of Redico.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/03/2009
Comments: Fact sheet is being mailed out the site mailing list.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/03/2009
Comments: Public notice is going to be published on December 4, 2009 on the local newspaper.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/17/2009
Comments: DTSC approves workplan on 6/17/09. RP consultant to incorporate revisions propsed in Response to DTSC Comments and submit final workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/03/2009
Comments: Field work was completed from October 2-3, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/03/2009
Comments: DTSC accepts interim remedial investigation data package, based on discussion of RP responses to DTSC comments at meeting with RP on 4/1/09. RP will submit supplemental workplan, including schedule for implementation and preparation of remedial investigation report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 10/12/2010
Comments: REDICO requested a one-year delay to the timeframes outlined in the RAW for implementation of the remedial action. Request grant over the phone.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 02/12/2013
Comments: Application for DTSC oversight by new property owner.

MARCHANT CORPORATION SITE (Continued) **S108054471**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 07/22/2013
Comments: Workplan is approved for implementation. Pilot test activities to start in July-August timeframe.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 05/21/2008
Comments: First Amendment to VCA fully executed on 5/21/08. Site name under the VCA is changed to Marchant Corporation Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/03/2011
Comments: Redico requested termination & closeout f the VCA as they no longer own the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 04/08/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/26/2007
Comments: Review of existing data completed 11/26/07. Additional data for other properties to be submitted by RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 07/11/2008
Comments: Community profile completed and approved 7/11/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/03/2008
Comments: Review of available supporitng documentation (chain of custody, lab reports, QA/QC) completed 3/3/08. Acknowledgment sent to RP via email 3/3/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/11/2008
Comments: Workplan approved 6/11/08.

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

MARCHANT CORPORATION SITE (Continued) **S108054471**

Completed Date:	11/19/2008
Comments:	RP consultant submitted sampling results and analytical reports via email on 11/19/08. Results available under "Interim Remedial Investigation Data Package" activity.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	01/25/2010
Comments:	Not reported
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Fact Sheets
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2015
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Plan
Future Due Date:	2015
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2016
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2016
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	CEQA - Notice of Exemption
Future Due Date:	2014
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AG144 **EMERYVILLE ORDNANCE DEPOT** **FUDS** **1007211904**
SE **N/A**
1/2-1 **EMERYVILLE, CA**
0.541 mi.
2858 ft. **Site 1 of 2 in cluster AG**

Relative: Higher

Actual: 20 ft.

FUDS:

Federal Facility ID:	CA9799F8638
FUDS #:	J09CA7056
INST ID:	56620
Facility Name:	EMERYVILLE ORDNANCE DEPOT
City:	EMERYVILLE
State:	CA
EPA Region:	09
County:	ALAMEDA
Congressional District:	09
US Army District:	Sacramento District (SPK)

EMERYVILLE ORDNANCE DEPOT (Continued) **1007211904**

Fiscal Year:	2011
Telephone:	916-557-7461
NPL Status:	Not Listed
RAB:	Not reported
CTC:	10
Current Owner:	PRIVATE
Current Prog:	Not reported
Future Prog:	Not reported
Description:	The 42.415-acre site is located in the city of Emeryville, California. The depot consisted of three separate parcels of real estate. The Depot is now utilized by light industry and commercial interest. Much of the area is used for office space and very little remains that might indicate prior U.S. ownership. This property is known or suspected to contain military munitions and explosives of concern (e.g., unexploded ordnance) and therefore may present an explosive hazard. The site was acquired on 15 March 1942 in response to wartime needs for reliable and speedy delivery of vehicles to overseas bases of operations. The function of the depot was to receive, inspect, service, and prepare for shipment, wheeled vehicles passing through the San Francisco Port of Embarkation for overseas destinations. Documentation indicates the presence of tanks and amphibious vehicles; however, no mention of the munitions associated with these vehicles was noted. The site was abandoned in 1946. Processing continued on a limited scale.

AG145 **EMERYVILLE ORDNANCE DEPOT (J09CA7056)** **ENVIROSTOR** **S107736293**
SE **N/A**
1/2-1 **EMERYVILLE, CA**
0.543 mi.
2865 ft. **Site 2 of 2 in cluster AG**

Relative:
Higher

Actual:
20 ft.

ENVIROSTOR:

Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	42
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Ed Walker
Supervisor:	Carrie Tatoian-Cain
Division Branch:	Cleanup Sacramento
Facility ID:	80001040
Site Code:	201797
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	No Further Action
Status Date:	06/22/2011
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	DERA
Latitude:	37.84222
Longitude:	-122.2894
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	Explosives (UXO, MEC
Confirmed COC:	Explosives (UXO, MEC, NONE SPECIFIED
Potential Description:	NONE SPECIFIED

EMERYVILLE ORDNANCE DEPOT (J09CA7056) (Continued) **S107736293**

Alias Name: CA99799F863800
Alias Type: Federal Facility ID
Alias Name: J09CA7056
Alias Type: Federal Facility ID
Alias Name: 201797
Alias Type: Project Code (Site Code)
Alias Name: 80001040
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Department of Defense Action Indicated (NDAI)
Completed Date: 06/22/2011
Comments: No further action based on the information provided in NDAI. If future information indicates a release by the Department of Defense the Department will investigate the property again.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

146
South
1/2-1
0.548 mi.
2894 ft.

Relative:
Lower

Actual:
11 ft.

WEATHERFORD BMW, INC.
5903 CHRISTIE AVE E BAY
EMERYVILLE, CA 94608

HIST CORTESE **1000409178**
LUST **N/A**
CA FID UST
Alameda County CS
HIST UST
Notify 65

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1651

LUST:
Region: STATE
Global Id: T0600101526
Latitude: 37.8386848
Longitude: -122.294775
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/16/1993
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: SH
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1651
LOC Case Number: RO0001079
File Location: Stored electronically as an E-file
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

WEATHERFORD BMW, INC. (Continued) **1000409178**

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

Contact:

Global Id:	T0600101526
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600101526
Contact Type:	Local Agency Caseworker
Contact Name:	SUSAN HUGO
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0600101526
Status:	Completed - Case Closed
Status Date:	04/16/1993

Global Id:	T0600101526
Status:	Open - Case Begin Date
Status Date:	04/18/1989

Regulatory Activities:

Global Id:	T0600101526
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0600101526
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Excavation

LUST REG 2:

Region:	2
Facility Id:	01-1651
Facility Status:	Case Closed
Case Number:	392
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	6/30/1989
Pollution Characterization Began:	Not reported

WEATHERFORD BMW, INC. (Continued) **1000409178**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01002264
Regulated By: UTNKI
Regulated ID: 00066513
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 5903 CHRISTIE AVE E BAY P
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

Alameda County CS:
Status: Case Closed
Record Id: RO0001079
PE: 5602

HIST UST:
Region: STATE
Facility ID: 00000066513
Facility Type: Other
Other Type: AUTO DEALER
Total Tanks: 0001
Contact Name: LEROY MCGINNIS
Telephone: 4156548280
Owner Name: WEATHERFORD MOTORS, INC.
Owner Address: 5903 CHRISTIE AVE, EAST BAY PA
Owner City,St,Zip: EMERYVILLE, CA 94608

Tank Num: 001
Container Num: 2
Year Installed: 1978
Tank Capacity: 00002000
Tank Used for: WASTE
Type of Fuel: 1
Tank Construction: Unkown inches
Leak Detection: None

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported

WEATHERFORD BMW, INC. (Continued) **1000409178**

Incident Description: 92633

AH147 **MYERS DRUM - OAKLAND** **HIST Cal-Sites** **S101272666**
East **6549 SAN PABLO AVENUE** **N/A**
1/2-1 **OAKLAND, CA 94608**
0.551 mi.
2911 ft. **Site 1 of 2 in cluster AH**

Relative:
Higher

Actual:
44 ft.

Calsite:

Facility ID:	01340111
Region:	2
Region Name:	BERKELEY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	12212004
Status:	CERTIFIED OPERATION AND MAINTENANCE, ALL PLANNED ACTIVITIES IMPLEMENTED, REMEDIATION CONTINUES
Status Name:	CERTIFIED / OPERATION & MAINTENANCE
Lead Agency:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	RP
Type Name:	RESPONSIBLE PARTY
NPL:	Not Listed
SIC Code:	34
SIC Name:	MANU - FABRICATED METAL PRODUCTS
Access:	Uncontrolled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Suspected
Staff Member Responsible for Site:	TPARK
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	16
State Senate District Code:	09
Facility ID:	01340111
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06281991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

MYERS DRUM - OAKLAND (Continued) **S101272666**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SUMPS
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	250
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	REMOVAL OF ALL CAUSTIC AND CHEMICAL LIQUID & SLUDGE.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12121991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	RIFS

MYERS DRUM - OAKLAND (Continued) **S101272666**

Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04121995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05281996
Est Person-Yrs to complete:	0.10000
Estimated Size:	M
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	AMEND
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02231996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

MYERS DRUM - OAKLAND (Continued) **S101272666**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NEGD
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05241996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	PHA I
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03211999
Est Person-Yrs to complete:	0
Estimated Size:	M
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	15500
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	X
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	APPROXIMATELY 14,800 CUBIC YARDS OF CONTAMINATED SOIL, 570 TONS

MYERS DRUM - OAKLAND (Continued) **S101272666**

	OFCONCRETE, WOOD, AND CONSTRUCTION DEBRIS AND 20,000 GALLONS OF WATERWAS REMOVED OFF SITE. ADDITIONAL 12 MONITORING WELLS DECOMMISSIONED.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	09302004
Revised Due Date:	Not reported
Comments Date:	12212004
Est Person-Yrs to complete:	0
Estimated Size:	M
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	DES
Activity Name:	DESIGN
AWP Code:	DEMOL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10251996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	DES

MYERS DRUM - OAKLAND (Continued) **S101272666**

Activity Name:	DESIGN
AWP Code:	PHA I
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06261998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	DES
Activity Name:	DESIGN
AWP Code:	PHAII
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08311998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	PHAII
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12312003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

MYERS DRUM - OAKLAND (Continued) **S101272666**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08052002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340111
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	ESD
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12312003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

MYERS DRUM - OAKLAND (Continued) **S101272666**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	6549 SAN PABLO AVENUE
Alternate City,St,Zip:	OAKLAND, CA 94608
Background Info:	The site was a drum recycling facility located in a commercial, industrial, and residential area. Due to poor drum recycling practices, there were releases of hazardous substances at the site.
Comments Date:	02231996
Comments:	Amended RIFS. Feasibility Study amended to propose soil and
Comments Date:	02231996
Comments:	groundwater removal to residential use standards.
Comments Date:	03211999
Comments:	Completed Remedial Action. The RA included excavation of
Comments Date:	03211999
Comments:	contaminated soil for residential development. Approximately
Comments Date:	03211999
Comments:	22,500 tons of contaminated soils were excavated and disposed
Comments Date:	03211999
Comments:	off-site. Approximately 20,000 gallons of groundwater were
Comments Date:	03211999
Comments:	encountered during excavation and disposed off-site.
Comments Date:	04121995
Comments:	Completed RIFS. Feasibility Study approved proposing soil and
Comments Date:	04121995
Comments:	groundwater removal to industrial use standards.
Comments Date:	04281989
Comments:	DHS inspected site as part of drum recycling project.
Comments Date:	05222000
Comments:	In-situ groundwater treatment was performed using
Comments Date:	05222000
Comments:	hydrogen-releasing compounds (HRC). In order to measure the
Comments Date:	05222000
Comments:	effectiveness of the HRC treatment, groundwater was sampled
Comments Date:	05222000
Comments:	approximately every 4-6 weeks over a 12 month period.
Comments Date:	05241996
Comments:	Approved CEQA Negative Declaration.
Comments Date:	05281996
Comments:	Approved RAP. The plan required excavation of contaminated soil
Comments Date:	05281996
Comments:	to the residential cleanup levels and groundwater extraction and
Comments Date:	05281996
Comments:	treatment.
Comments Date:	06151989
Comments:	Completed PA. Due to poor drum recycling practices, there have
Comments Date:	06151989
Comments:	been periodic releases of hazardous substances at the site.
Comments Date:	06151989
Comments:	Soils at the site were contaminated with metals (lead, zinc, and
Comments Date:	06151989
Comments:	arsenic); volatile organic compounds (toluene, xylene, and
Comments Date:	06151989
Comments:	propanol), semi-volatile organic compounds (napthalene and
Comments Date:	06151989

MYERS DRUM - OAKLAND (Continued) **S101272666**

Comments:	phenol), and total petroleum hydrocarbons. Two localized
Comments Date:	06151989
Comments:	groundwater plume were identified.
Comments Date:	06281991
Comments:	Issued I&SE Order.
Comments Date:	09212004
Comments:	Recorded Deed Restriction. A deed restriction was recorded for
Comments Date:	09212004
Comments:	the significant area where residuals remain to prevent use of
Comments Date:	09212004
Comments:	the underlying groundwater.
Comments Date:	09271991
Comments:	The Department entered into a settlement with Kaiser in
Comments Date:	09271991
Comments:	connection with the company's bankruptcy for both of the Myers
Comments Date:	09271991
Comments:	Oakland and Emeryville sites.
Comments Date:	09301991
Comments:	Completed RA. Eleven sumps were drained and the integrity of
Comments Date:	09301991
Comments:	the sumps were checked. 250 cubic yards of waste removed.
Comments Date:	10251996
Comments:	Approved Phase IA Design for building demolition.
Comments Date:	12212004
Comments:	Certified Site. A residential/commercial development is being
Comments Date:	12212004
Comments:	developed on the property.
Comments Date:	12312003
Comments:	Remedial Action Plan modification was approved that changed the
Comments Date:	12312003
Comments:	groundwater remedy from extraction and treatment to long term
Comments Date:	12312003
Comments:	groundwater monitoring and deed restrictions.
ID Name:	CALSTARS CODE
ID Value:	200143
ID Name:	BEP DATABASE PCODE
ID Value:	P20014
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD009123217
Alternate Name:	MYERS CONTAINER CORPORATIONKAISER - FORMER OWNERMYERS DRUM - OAKLANDMEYERS DRU
Special Programs Code:	Not reported
Special Programs Name:	Not reported

AH148 **MYERS DRUM - OAKLAND** **FINDS** **1000369037**
East **6549 SAN PABLO AVE** **Cortese** **N/A**
1/2-1 **OAKLAND, CA** **HIST CORTESE**
0.551 mi. **CA FID UST**
2911 ft. **Site 2 of 2 in cluster AH** **SLIC**
HIST UST
Relative: **DEED**
Higher **RESPONSE**
EMI
Actual: **ENVIROSTOR**
44 ft.

FINDS:

Registry ID: 110002635131

MYERS DRUM - OAKLAND (Continued) **1000369037**

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

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

CORTESE:

Region:	CORTESE
Envirostor Id:	1340111
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS
Status Date:	12/21/2004
Site Code:	200143
Latitude:	37.848572
Longitude:	-122.28644
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	export
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01340111

CA FID UST:

Facility ID:	01002689
Regulated By:	UTNKA
Regulated ID:	00041770
Cortese Code:	Not reported

MYERS DRUM - OAKLAND (Continued) **1000369037**

SIC Code: Not reported
Facility Phone: 4156526847
Mail To: Not reported
Mailing Address: 6549 SAN PABLO AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: OAKLAND 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/02/2009
Global Id: SLT2O190293
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.8487825032211
Longitude: -122.285815596573
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: SLT2O190293
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

HIST UST:
Region: STATE
Facility ID: 00000014527
Facility Type: Other
Other Type: DRUM RECONDITIONING
Total Tanks: 0004
Contact Name: THURMAN CRABTREE
Telephone: 4152716200
Owner Name: MYERS DRUM COMPANY
Owner Address: 6549 SAN PABLO AVENUE
Owner City,St,Zip: OAKLAND, CA 94608

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 002

MYERS DRUM - OAKLAND (Continued) **1000369037**

Container Num: 2
Year Installed: Not reported
Tank Capacity: 00025000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 6 inches
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00016000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 6 inches
Leak Detection: None

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: 1/4 inches
Leak Detection: None

DEED:
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED / OPERATION & MAINTENANCE
Deed Date(s): 09/21/2004
EDR Link ID: 1340111

RESPONSE:
Facility ID: 01340111
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 2.8
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Tom Price
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 200143
Site Mgmt. Req.: REM, LUC, MON, GW, NOWN
Assembly: 15
Senate: 09
Special Program Status: Not reported
Status: Certified / Operation & Maintenance
Status Date: 12/21/2004
Restricted Use: YES
Funding: Responsible Party
Latitude: 37.84857

MYERS DRUM - OAKLAND (Continued) **1000369037**

Longitude:	-122.2864
APN:	016-1506-001-02, 016-1506-001-02, 016-1506-010-01, 016-1506-011, 049-1506-004, 16-1528-119
Past Use:	RECYCLING - DRUM
Potential COC:	Arsenic, Benzene, Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, 1,1,1-Trichloroethane (TCA, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, 1,1-Dichloroethane, 1,2-Dichloroethane (EDC, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Dieldrin, Toluene, Zinc
Confirmed COC:	Arsenic, Benzene, Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, 1,1,1-Trichloroethane (TCA, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, 1,1-Dichloroethane, 1,2-Dichloroethane (EDC, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Dieldrin, Toluene, Zinc, Toluene, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, 1,1,1-Trichloroethane (TCA, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, 1,1-Dichloroethane, 1,2-Dichloroethane (EDC, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Dieldrin, Arsenic, Benzene, Lead, Zinc
Potential Description:	OTH
Alias Name:	KAISER - FORMER OWNER
Alias Type:	Alternate Name
Alias Name:	MEYERS DRUM
Alias Type:	Alternate Name
Alias Name:	MYERS CONTAINER CORPORATION
Alias Type:	Alternate Name
Alias Name:	016-1506-001-02
Alias Type:	APN
Alias Name:	016-1506-001-02
Alias Type:	APN
Alias Name:	016-1506-010-01
Alias Type:	APN
Alias Name:	016-1506-011
Alias Type:	APN
Alias Name:	049-1506-004
Alias Type:	APN
Alias Name:	16-1528-119
Alias Type:	APN
Alias Name:	CAD009123217
Alias Type:	EPA Identification Number
Alias Name:	110002635131
Alias Type:	EPA (FRS #)
Alias Name:	P20014
Alias Type:	PCode
Alias Name:	200143
Alias Type:	Project Code (Site Code)
Alias Name:	01340111
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	02/12/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/09/2008
Comments: The landscaped driveway entrance that overlies the area of groundwater contamination was observed to be in good condition during the annual site inspection by DTSC staff.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/06/2009
Comments: The landscaped driveway entrance appeared to be in good condition. There was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/30/2013
Comments: Estimated costs for regulatory oversight by DTSC for the fiscal year 2013-14.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2007
Comments: Site conditions observed at the property comply with the O & M agreement and deed restriction

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/30/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/05/2011
Comments: Estimate of DTSC costs to provide regulatory oversight from 7/1/2011 to 6/30/2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/23/2012
Comments: The cost estimate covers anticipated regulatory oversight expenses from 7/1/12 to 6/30/13.

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

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Date: 12/21/2004
Comments: Certified Site. A residential/commercial development is being constructed on the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 05/24/1996
Comments: Approved CEQA Negative Declaration.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 06/28/1991
Comments: Order issued to IMACC Corporation, the parent company of Myers Container Corporation, and Dorothy Warburton, the Site owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/21/2004
Comments: A deed restriction was recorded for the area where residual groundwater contamination remains to prevent use of the underlying groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/30/2010
Comments: The estimated costs for the fiscal year for DTSC oversight are $7,848.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 10/05/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan w/ESD
Completed Date: 12/31/2003
Comments: Explanation of Significant Differences approved. The groundwater remedy was changed from extraction and treatment to long-term groundwater monitoring and deed restrictions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/05/2002
Comments: DTSC approved Groundwater Remediation Workplan. Primary activities included in scope of Workplan are soil excavation from two areas of groundwater contamination and pumping of groundwater from open excavation areas.

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

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Document Type: Remedial Action Completion Report
Completed Date: 12/31/2003
Comments: Information presented in the Explanation of Significant Differences along with TRC's August 2003 Groundwater Pump and Treat Report provided documentation of groundwater cleanup activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/26/1998
Comments: DTSC approved Phase I Remedial Design and Implementation Plan. The Plan scope included excavation and off-site disposal of soil with contaminants exceeding residential cleanup levels. Groundwater cleanup was addressed in a subsequent ESD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/25/1996
Comments: Approved Phase IA Design for building demolition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/21/1999
Comments: Completed Remedial Action. The RA included excavation of contaminated soil for residential development. Approximately 22,500 tons of contaminated soils were excavated and disposed off-site. Approximately 20,000 gallons of groundwater were encountered during excavation and disposed off-site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 02/23/1996
Comments: Amended RIFS. Feasibility Study amended to propose soil and groundwater removal to residential use standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 05/28/1996
Comments: Approved RAP. The plan required excavation of contaminated soil to residential cleanup levels and groundwater extraction and treatment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 04/12/1995
Comments: Completed RIFS. Feasibility Study approved proposing soil and groundwater removal to industrial use standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 12/12/1991
Comments: PPP approved. The San Pablo Avenue corridor is zoned primarily

MYERS DRUM - OAKLAND (Continued) **1000369037**

commercial, while the area to the west of San Pablo is industrial and the area to the east is residential. Community interviews conducted to assess level of community interest/involvement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/30/1991
Comments: Completed RA. Eleven sumps were drained and the integrity of the sumps were checked. 250 cubic yards of waste were removed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/15/1989
Comments: Completed PA. Periodic releases of hazardous substances were determined to have occurred at the site from drum recycling activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 01/17/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/27/2006
Comments: Semi-annual groundwater monitoring completed for deed restricted area of property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/12/2007
Comments: Groundwater monitoring report indicated increases in vinyl chloride, 1,1-DCE, cis-1,2-DCE, and benzene concentrations. Monitoring to continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/20/2003
Comments: Fact Sheet and Public Notice announced changes proposed to Remedial Action Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 06/20/2006
Comments: DTSC approved workplan for installation of monitoring well in capped area of site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Date: 09/03/1992
Comments: RI approved. VOCs and SVOCs found in soil to depths ranging from 3 to 5 feet. VOCs detected in groundwater. No contaminants detected by air monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 05/01/1994
Comments: Site COCs, migration pathways, and exposure scenarios evaluated. Total cancer risks ranged from 1E-08 to 3E-03. Non-cancer hazard indices ranged from 9E-04 to 1E+01. Adverse impacts to ecological receptors in the Bay determined to be unlikely.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/26/2006
Comments: Monitoring well installed in deed restricted area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/04/2007
Comments: Approval letter signed 10/2/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/02/2008
Comments: Report approved April 2, 2008; electronic copy of report to follow.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/29/2008
Comments: The Report presents the results of sampling of two groundwater monitoring wells performed in June 2008. Vinyl chloride and cis-1,2-dichloroethylene still exceed the groundwater cleanup goals in one monitoring well and the detected concentrations were 29 and 180 micrograms per liter, respectively.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/03/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/01/2009
Comments: The report recommended continuation of the semi-annual monitoring program.

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

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Document Type: Monitoring Report
Completed Date: 02/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 02/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 06/23/2011
Comments: The monitoring results are consistent with historical results. DTSC's Geological Services Unit requested that copies of the monitoring wells borehole logs should be submitted and a compilation of all groundwater gradient evaluations should be completed. DTSC requested that information to be submitted in the next monitoring report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/22/2011
Comments: The report included responses to DTSC's comment letter dated June 23, 2011. In response the those comments the report included information related to boring logs, monitoring well construction details, and groundwater elevation data and gradient evaluations; the responses that were provided were adequate. The results of the groundwater monitoring program were consistent with previous results which showed low levels of chlorinated volatile organic compounds (VOCs) in shallow groundwater; the groundwater data also showed that natural biodegradation of those chlorinated VOCs is occurring since breakdown compounds are present.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 01/06/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/21/2011
Comments: Groundwater monitoring wells were sampled.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/27/2011
Comments: Groundwater samples were collected.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 08/10/2011

MYERS DRUM - OAKLAND (Continued) **1000369037**

Comments:	The Public Notice was published in the Oakland Tribune on page A7 on August 10, 2011.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	02/05/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	03/21/2012
Comments:	Groundwater samples were collected.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	12/20/2004
Comments:	DTSC entered into an Operations and Maintenance Agreement with Myers Container Corporation. The Agreement provides for ongoing, semi-annual sampling of two monitoring wells.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/31/2012
Comments:	Groundwater samples were collected.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	01/24/2013
Comments:	The schedule for collection of groundwater samples has been reduced to bi-annual (once every other year). Two groundwater monitoring wells were sampled this period however DTSC recently approved decommissioning of one well (MW-10) so only one well will continue to be monitored. The samples were tested for chlorinated solvents and only vinyl chloride exceeded the drinking water Maximum Contaminant Level (MCL) of 0.5 micrograms per liter (ug/L). The next sampling event is scheduled to occur by January 31, 2013.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	01/30/2013
Comments:	A groundwater sample was collected.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Report
Completed Date:	03/27/2013
Comments:	The workplan describes procedures for abandonment of one monitoring well (MW-10). The procedure includes drilling out the upper 5-feet, removal of the pipe, and grouting according to the local water agency requirements. Since the well is located in a City of Oakland street, an encroachment permit will be obtained.

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/01/2013
Comments:	The groundwater monitoring is conducted on a biennial schedule (one sampling event every 2 years). There is only 1 monitoring well that is sampled and tested; a low concentration of vinyl chloride was detected. The vinyl chloride is a biodegradation breakdown product of the former chlorinated solvent plume in groundwater at the Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Report
Completed Date:	07/23/2013
Comments:	One groundwater monitoring well (MW-10) was properly abandoned by overdrilling and grouting. Only one well at the site remains which is still monitored.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/05/2013
Comments:	One groundwater monitoring well was properly abandoned.

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2016
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

EMI:

Year:	1987
County Code:	1
Air Basin:	SF
Facility ID:	1762
Air District Name:	BA
SIC Code:	3411
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	2.8

MYERS DRUM - OAKLAND (Continued) **1000369037**

NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Tom Price
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	01340111
Site Code:	200143
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Certified / Operation & Maintenance
Status Date:	12/21/2004
Restricted Use:	YES
Site Mgmt. Req.:	REM, LUC, MON, GW, NOWN
Funding:	Responsible Party
Latitude:	37.84857
Longitude:	-122.2864
APN:	016-1506-001-02, 016-1506-001-02, 016-1506-010-01, 016-1506-011, 049-1506-004, 16-1528-119
Past Use:	RECYCLING - DRUM
Potential COC:	Arsenic, Benzene, Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, 1,1,1-Trichloroethane (TCA, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, 1,1-Dichloroethane, 1,2-Dichloroethane (EDC, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Dieldrin, Toluene, Zinc
Confirmed COC:	Arsenic, Benzene, Lead, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, 1,1,1-Trichloroethane (TCA, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, 1,1-Dichloroethane, 1,2-Dichloroethane (EDC, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Dieldrin, Toluene, Zinc, Toluene, Polychlorinated biphenyls (PCBs, Tetrachloroethylene (PCE, 1,1,1-Trichloroethane (TCA, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, 1,1-Dichloroethane, 1,2-Dichloroethane (EDC, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Dieldrin, Arsenic, Benzene, Lead, Zinc
Potential Description:	OTH
Alias Name:	KAISER - FORMER OWNER
Alias Type:	Alternate Name
Alias Name:	MEYERS DRUM
Alias Type:	Alternate Name
Alias Name:	MYERS CONTAINER CORPORATION
Alias Type:	Alternate Name
Alias Name:	016-1506-001-02
Alias Type:	APN
Alias Name:	016-1506-001-02
Alias Type:	APN
Alias Name:	016-1506-010-01
Alias Type:	APN
Alias Name:	016-1506-011
Alias Type:	APN
Alias Name:	049-1506-004
Alias Type:	APN
Alias Name:	16-1528-119
Alias Type:	APN
Alias Name:	CAD009123217
Alias Type:	EPA Identification Number

MYERS DRUM - OAKLAND (Continued) **1000369037**

Alias Name: 110002635131
Alias Type: EPA (FRS #)
Alias Name: P20014
Alias Type: PCode
Alias Name: 200143
Alias Type: Project Code (Site Code)
Alias Name: 01340111
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/09/2008
Comments: The landscaped driveway entrance that overlies the area of groundwater contamination was observed to be in good condition during the annual site inspection by DTSC staff.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/06/2009
Comments: The landscaped driveway entrance appeared to be in good condition. There was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 08/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/30/2013
Comments: Estimated costs for regulatory oversight by DTSC for the fiscal year 2013-14.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2007
Comments: Site conditions observed at the property comply with the O & M agreement and deed restriction

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/30/2006
Comments: Not reported

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/05/2011
Comments: Estimate of DTSC costs to provide regulatory oversight from 7/1/2011 to 6/30/2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/23/2012
Comments: The cost estimate covers anticipated regulatory oversight expenses from 7/1/12 to 6/30/13.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 12/21/2004
Comments: Certified Site. A residential/commercial development is being constructed on the property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 05/24/1996
Comments: Approved CEQA Negative Declaration.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 06/28/1991
Comments: Order issued to IMACC Corporation, the parent company of Myers Container Corporation, and Dorothy Warburton, the Site owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/21/2004
Comments: A deed restriction was recorded for the area where residual groundwater contamination remains to prevent use of the underlying groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/30/2010
Comments: The estimated costs for the fiscal year for DTSC oversight are $7,848. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 10/05/2010
Comments: Not reported

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

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Document Type: Remedial Action Plan w/ESD
Completed Date: 12/31/2003
Comments: Explanation of Significant Differences approved. The groundwater remedy was changed from extraction and treatment to long-term groundwater monitoring and deed restrictions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/05/2002
Comments: DTSC approved Groundwater Remediation Workplan. Primary activities included in scope of Workplan are soil excavation from two areas of groundwater contamination and pumping of groundwater from open excavation areas.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 12/31/2003
Comments: Information presented in the Explanation of Significant Differences along with TRC's August 2003 Groundwater Pump and Treat Report provided documentation of groundwater cleanup activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/26/1998
Comments: DTSC approved Phase I Remedial Design and Implementation Plan. The Plan scope included excavation and off-site disposal of soil with contaminants exceeding residential cleanup levels. Groundwater cleanup was addressed in a subsequent ESD.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/25/1996
Comments: Approved Phase IA Design for building demolition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 03/21/1999
Comments: Completed Remedial Action. The RA included excavation of contaminated soil for residential development. Approximately 22,500 tons of contaminated soils were excavated and disposed off-site. Approximately 20,000 gallons of groundwater were encountered during excavation and disposed off-site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 02/23/1996
Comments: Amended RIFS. Feasibility Study amended to propose soil and groundwater removal to residential use standards.

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

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Document Type:	Remedial Action Plan
Completed Date:	05/28/1996
Comments:	Approved RAP. The plan required excavation of contaminated soil to residential cleanup levels and groundwater extraction and treatment.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	04/12/1995
Comments:	Completed RIFS. Feasibility Study approved proposing soil and groundwater removal to industrial use standards.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Participation Plan / Community Relations Plan
Completed Date:	12/12/1991
Comments:	PPP approved. The San Pablo Avenue corridor is zoned primarily commercial, while the area to the west of San Pablo is industrial and the area to the east is residential. Community interviews conducted to assess level of community interest/involvement.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	09/30/1991
Comments:	Completed RA. Eleven sumps were drained and the integrity of the sumps were checked. 250 cubic yards of waste were removed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	06/15/1989
Comments:	Completed PA. Periodic releases of hazardous substances were determined to have occurred at the site from drum recycling activities.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	01/17/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	09/27/2006
Comments:	Semi-annual groundwater monitoring completed for deed restricted area of property.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	03/12/2007
Comments:	Groundwater monitoring report indicated increases in vinyl chloride, 1,1-DCE, cis-1,2-DCE, and benzene concentrations. Monitoring to continue.

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/20/2003
Comments: Fact Sheet and Public Notice announced changes proposed to Remedial Action Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 06/20/2006
Comments: DTSC approved workplan for installation of monitoring well in capped area of site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/03/1992
Comments: RI approved. VOCs and SVOCs found in soil to depths ranging from 3 to 5 feet. VOCs detected in groundwater. No contaminants detected by air monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 05/01/1994
Comments: Site COCs, migration pathways, and exposure scenarios evaluated. Total cancer risks ranged from 1E-08 to 3E-03. Non-cancer hazard indices ranged from 9E-04 to 1E+01. Adverse impacts to ecological receptors in the Bay determined to be unlikely.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/26/2006
Comments: Monitoring well installed in deed restricted area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/04/2007
Comments: Approval letter signed 10/2/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 04/02/2008
Comments: Report approved April 2, 2008; electronic copy of report to follow.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/29/2008
Comments: The Report presents the results of sampling of two groundwater monitoring wells performed in June 2008. Vinyl chloride and cis-1,2-dichloroethylene still exceed the groundwater cleanup goals in one monitoring well and the detected concentrations were 29 and

MYERS DRUM - OAKLAND (Continued) **1000369037**

180 micrograms per liter, respectively.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/03/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/01/2009
Comments: The report recommended continuation of the semi-annual monitoring program.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 02/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 06/23/2011
Comments: The monitoring results are consistent with historical results. DTSC's Geological Services Unit requested that copies of the monitoring wells borehole logs should be submitted and a compilation of all groundwater gradient evaluations should be completed. DTSC requested that information to be submitted in the next monitoring report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/22/2011
Comments: The report included responses to DTSC's comment letter dated June 23, 2011. In response the those comments the report included information related to boring logs, monitoring well construction details, and groundwater elevation data and gradient evaluations; the responses that were provided were adequate. The results of the groundwater monitoring program were consistent with previous results which showed low levels of chlorinated volatile organic compounds (VOCs) in shallow groundwater; the groundwater data also showed that natural biodegradation of those chlorinated VOCs is occurring since breakdown compounds are present.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 01/06/2010
Comments: Not reported

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/21/2011
Comments: Groundwater monitoring wells were sampled.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/27/2011
Comments: Groundwater samples were collected.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 08/10/2011
Comments: The Public Notice was published in the Oakland Tribune on page A7 on August 10, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/05/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/21/2012
Comments: Groundwater samples were collected.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 12/20/2004
Comments: DTSC entered into an Operations and Maintenance Agreement with Myers Container Corporation. The Agreement provides for ongoing, semi-annual sampling of two monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/31/2012
Comments: Groundwater samples were collected.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/24/2013
Comments: The schedule for collection of groundwater samples has been reduced to bi-annual (once every other year). Two groundwater monitoring wells were sampled this period however DTSC recently approved decommissioning of one well (MW-10) so only one well will continue to be monitored. The samples were tested for chlorinated solvents and only vinyl chloride exceeded the drinking water Maximum Contaminant Level (MCL) of 0.5 micrograms per liter (ug/L). The next sampling event is scheduled to occur by January 31, 2013.

MYERS DRUM - OAKLAND (Continued) **1000369037**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	01/30/2013
Comments:	A groundwater sample was collected.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Report
Completed Date:	03/27/2013
Comments:	The workplan describes procedures for abandonment of one monitoring well (MW-10). The procedure includes drilling out the upper 5-feet, removal of the pipe, and grouting according to the local water agency requirements. Since the well is located in a City of Oakland street, an encroachment permit will be obtained.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/01/2013
Comments:	The groundwater monitoring is conducted on a biennial schedule (one sampling event every 2 years). There is only 1 monitoring well that is sampled and tested; a low concentration of vinyl chloride was detected. The vinyl chloride is a biodegradation breakdown product of the former chlorinated solvent plume in groundwater at the Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Decommissioning Report
Completed Date:	07/23/2013
Comments:	One groundwater monitoring well (MW-10) was properly abandoned by overdrilling and grouting. Only one well at the site remains which is still monitored.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/05/2013
Comments:	One groundwater monitoring well was properly abandoned.

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2016
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

149
SSE
1/2-1
0.558 mi.
2946 ft.

EMERYVILLE MOUND PARCEL
59TH STREET AND HORTON STREET
EMERYVILLE, CA 94608

VCP **S110121721**
ENVIROSTOR **N/A**

Relative:
Lower

Actual:
15 ft.

VCP:

Facility ID:	01360057
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.58
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, US EPA
Lead Agency:	SMBRP,US EPA
Lead Agency Description:	DTSC - Site Cleanup Program
Lead Agency Description:	US EPA
Project Manager:	Henry Wong
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201870
Assembly:	15
Senate:	09
Special Programs Code:	Polanco Redevelopment MOA
Status:	Active
Status Date:	10/28/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.84111 / -122.2908
APN:	049-1489-015-00
Past Use:	MANUFACTURING - OTHER
Potential COC:	10097, 30003, 30018, 30027, 30028, 30116, 30136, 30185, 30186, 30187, 30195, 30196, 30563
Confirmed COC:	30563,30018,30027,30028,30116,30136,30185,30186,30187,30195,30196, 30003,10097
Potential Description:	OTH, SOIL, SV
Alias Name:	EmeryStation West at the Emeryville Transit Center Project
Alias Type:	Alternate Name
Alias Name:	Transit Center
Alias Type:	Alternate Name
Alias Name:	Westunghouse Electric Co - Emeryville
Alias Type:	Alternate Name
Alias Name:	049-1489-015-00
Alias Type:	APN
Alias Name:	CAT080032113
Alias Type:	EPA Identification Number
Alias Name:	110008296655
Alias Type:	EPA (FRS #)
Alias Name:	201606
Alias Type:	Site Code - Historical
Alias Name:	CAX000049908
Alias Type:	HWTS Identification Code
Alias Name:	P23066
Alias Type:	PCode
Alias Name:	201870
Alias Type:	Project Code (Site Code)
Alias Name:	01360057
Alias Type:	Envirostor ID Number

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Responsible Agency Review
Completed Date:	04/19/2010
Comments:	The City of Emeryville is the CEQA Lead Agency for the development of the project site. On 2/19/10 the City's adopted the Initial Study/Mitigated Negative Declaration (IS/MND) which include impact assessment for DTSC's cleanup project. As a CEQA Responsible Agency, DTSC used the IS/MND in making a discretionary decision on the cleanup project?s Feasibility Study/Remedial Action Plan (FS/RAP). On 4/19/10 DTSC prepared the Responsible Agency Checklist, Statement of Findings and Notice of Determination (NOD) pursuant to CEQA. DTSC plans to file the NOD with the Governor's Office of Planning and Research by 4/23/10.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Polanco Agreement
Completed Date:	03/10/2006
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	12/05/2011
Comments:	DTSC sent an estimate of hours and costs to CBS covering July 2011 through June 2012 for the Emeryville Mound Parcel.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	04/05/2010
Comments:	CBS Corporation and DTSC executed the Voluntary Cleanup Agreement (VCA) on 4/1/10. The VCA includes provisions for CBS to investigate and/or remediate hazardous substance releases at the subject property and reimburse DTSC?s oversight costs.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/27/2012
Comments:	DTSC issued a letter enclosing an estimate of DTSC's hours and oversight costs for a period from July 2012 through June 2013.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	05/05/2006
Comments:	Approval of report characterizing soil, soil gas and groundwater contamination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	09/13/2006
Comments:	DTSC prepared community profile with final approval on 9/13/2006

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/19/2010
Comments: DTSC approved the Feasibility Study/Remedial Action Plan (FS/RAP) on 4/19/10. The Human Health Risk Assessment Amendment is Appendix B of the FS/RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 04/19/2010
Comments: DTSC approved the Feasibility Study/Remedial Action Plan (FS/RAP) on 4/19/10. The FS/RAP evaluates remedial alternatives and proposes a preferred remedial action that meets the identified remedial action objectives, including protection of human health and the environment; compliance with regulatory requirements; cost-effective implementation; and preference for a permanent remedy consistent with the planned future land use. The FS/RAP proposes the following suite of remedies for the Emeryville Mound Parcel: > Pre-excavation soil sampling for polychlorinated biphenyl congeners, > Targeted additional groundwater characterization and in-situ treatment, > Unsaturated and saturated soil excavation, > Vapor mitigation, > Continued function of an existing slurry wall, > Institutional controls, and > Monitored natural attenuation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/04/2009
Comments: Pursuant to the Polanco Act, the City of Emeryville is the lead redevelopment agency responsible for the public review of the (a) Feasibility Study/Remedial Action Plan and (b) Initial Study/Mitigated Negative Declaration. The City will commence a 32-day public comment period on 11/7/09 and hold a public meeting on 11/19/09. The 32-day public comment period will end on 12/9/09.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 11/04/2009
Comments: Pursuant to the Polanco Act, the City of Emeryville is the lead redevelopment agency responsible for the public review of the (a) Feasibility Study/Remedial Action Plan and (b) Initial Study/Mitigated Negative Declaration. The City will commence a 32-day public comment period on 11/7/09 and hold a public meeting on 11/19/09. The 32-day public comment period will end on 12/9/09.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/11/2011
Comments: DTSC approved the RDIP; however, CBS cannot implement the RDIP until meeting the conditions below: o Sub-Slab Venting System/Sub-Slab Depressurization System (SSVS/SSDS): As soon as the final building plan becomes available, please submit the SSVS/SSDS detailed design for DTSC?s review and approval. o Health and Safety Plan (HSP):

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

Please submit all contractors? HSPs to DTSC. o Storm Water Pollution Prevention Plan (SWPPP): Please submit the State Water Resources Control Board-approved SWPPPs to DTSC prior to site disturbance. o Community Update: Please prepare and submit a community update to DTSC for review and approval. CBS shall mail the community update to people on the project mailing list notifying them of the commencement of the cleanup activities. o Monitoring Well Network: As soon as the final building design becomes available, please submit an updated figure depicting all monitoring well locations for DTSC?s review and approval. o Project Schedule: Please submit a project schedule outlining all cleanup activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 02/25/2010
Comments: DTSC approved the "Workplan to Perform Analytical Groundwater Profiling and Injecting Testing" (Workplan). CBS proposes (a) total volatile organic compounds profiling to select in-situ groundwater treatment locations and (b) field testing to determine the appropriate injection rate for oxygen release compound.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 10/12/2010
Comments: On 10/12/10, DTSC approved the Volatile Organic Compound Mitigation Workplan for in-situ treatment of volatile organic compounds (VOC) at the subject site. CBS plans to inject chemical at specified locations to treat VOC-impacted groundwater before excavation commences.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 09/09/2009
Comments: U.S. EPA approved the oWorkplan to Perform Pre-Excavation Soil Sampling for PCB Congenerso on 9/9/09. The workplan proposes subsurface soil PCB congener data to be used in developing risk-based action levels for airborne dust generated during construction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 11/18/2009
Comments: During a conference call on 11/10/09, Mr. Stephen F. Tyahla of U.S. EPA agreed that further sampling or analysis of PCB dioxin-like congeners is not technically feasible or warranted. It was agreed that the PCB aroclor results collected during this investigation along with existing site data will be used to assist in developing risk-based action levels for airborne dust generated during construction activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 03/19/2009

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

Comments: The Work Plan proposes collection and analysis of groundwater samples from 12 existing wells for volatile organic compounds. The results will be used to supplement available data in the human health risk assessment.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Design/Implementation Workplan
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Design/Implementation Workplan
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2015
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2016
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2019
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2016
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2015
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.58
NPL: NO
Regulatory Agencies: SMBRP, US EPA
Lead Agency: SMBRP,US EPA
Program Manager: Henry Wong
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

Facility ID:	01360057
Site Code:	201870
Assembly:	15
Senate:	09
Special Program:	Polanco Redevelopment MOA
Status:	Active
Status Date:	10/28/2005
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.84111
Longitude:	-122.2908
APN:	049-1489-015-00
Past Use:	MANUFACTURING - OTHER
Potential COC:	* CONTAMINATED SOIL, Benzene, Polychlorinated biphenyls (PCBs, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, Chloroform, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, 1,2,4-Trichlorobenzene
Confirmed COC:	* CONTAMINATED SOIL, Benzene, Polychlorinated biphenyls (PCBs, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, Chloroform, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, 1,2,4-Trichlorobenzene, 1,2,4-Trichlorobenzene, Polychlorinated biphenyls (PCBs, Trichloroethylene (TCE, Vinyl chloride, Carbon tetrachloride, Chloroform, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichloroethylene (cis, 1,2-Dichloroethylene (trans, Benzene, * CONTAMINATED SOIL
Potential Description:	OTH, SOIL, SV
Alias Name:	EmeryStation West at the Emeryville Transit Center Project
Alias Type:	Alternate Name
Alias Name:	Transit Center
Alias Type:	Alternate Name
Alias Name:	Westunghouse Electric Co - Emeryville
Alias Type:	Alternate Name
Alias Name:	049-1489-015-00
Alias Type:	APN
Alias Name:	CAT080032113
Alias Type:	EPA Identification Number
Alias Name:	110008296655
Alias Type:	EPA (FRS #)
Alias Name:	201606
Alias Type:	Site Code - Historical
Alias Name:	CAX000049908
Alias Type:	HWTS Identification Code
Alias Name:	P23066
Alias Type:	PCode
Alias Name:	201870
Alias Type:	Project Code (Site Code)
Alias Name:	01360057
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Responsible Agency Review
Completed Date:	04/19/2010
Comments:	The City of Emeryville is the CEQA Lead Agency for the development of

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

the project site. On 2/19/10 the City's adopted the Initial Study/Mitigated Negative Declaration (IS/MND) which include impact assessment for DTSC's cleanup project. As a CEQA Responsible Agency, DTSC used the IS/MND in making a discretionary decision on the cleanup project?s Feasibility Study/Remedial Action Plan (FS/RAP). On 4/19/10 DTSC prepared the Responsible Agency Checklist, Statement of Findings and Notice of Determination (NOD) pursuant to CEQA. DTSC plans to file the NOD with the Governor's Office of Planning and Research by 4/23/10.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Polanco Agreement
Completed Date: 03/10/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/05/2011
Comments: DTSC sent an estimate of hours and costs to CBS covering July 2011 through June 2012 for the Emeryville Mound Parcel.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 04/05/2010
Comments: CBS Corporation and DTSC executed the Voluntary Cleanup Agreement (VCA) on 4/1/10. The VCA includes provisions for CBS to investigate and/or remediate hazardous substance releases at the subject property and reimburse DTSC?s oversight costs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/27/2012
Comments: DTSC issued a letter enclosing an estimate of DTSC's hours and oversight costs for a period from July 2012 through June 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/05/2006
Comments: Approval of report characterizing soil, soil gas and groundwater contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 09/13/2006
Comments: DTSC prepared community profile with final approval on 9/13/2006

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/19/2010
Comments: DTSC approved the Feasibility Study/Remedial Action Plan (FS/RAP) on

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

4/19/10. The Human Health Risk Assessment Amendment is Appendix B of the FS/RAP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 04/19/2010
Comments: DTSC approved the Feasibility Study/Remedial Action Plan (FS/RAP) on 4/19/10. The FS/RAP evaluates remedial alternatives and proposes a preferred remedial action that meets the identified remedial action objectives, including protection of human health and the environment; compliance with regulatory requirements; cost-effective implementation; and preference for a permanent remedy consistent with the planned future land use. The FS/RAP proposes the following suite of remedies for the Emeryville Mound Parcel: > Pre-excavation soil sampling for polychlorinated biphenyl congeners, > Targeted additional groundwater characterization and in-situ treatment, > Unsaturated and saturated soil excavation, > Vapor mitigation, > Continued function of an existing slurry wall, > Institutional controls, and > Monitored natural attenuation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 11/04/2009
Comments: Pursuant to the Polanco Act, the City of Emeryville is the lead redevelopment agency responsible for the public review of the (a) Feasibility Study/Remedial Action Plan and (b) Initial Study/Mitigated Negative Declaration. The City will commence a 32-day public comment period on 11/7/09 and hold a public meeting on 11/19/09. The 32-day public comment period will end on 12/9/09.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 11/04/2009
Comments: Pursuant to the Polanco Act, the City of Emeryville is the lead redevelopment agency responsible for the public review of the (a) Feasibility Study/Remedial Action Plan and (b) Initial Study/Mitigated Negative Declaration. The City will commence a 32-day public comment period on 11/7/09 and hold a public meeting on 11/19/09. The 32-day public comment period will end on 12/9/09.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/11/2011
Comments: DTSC approved the RDIP; however, CBS cannot implement the RDIP until meeting the conditions below: o Sub-Slab Venting System/Sub-Slab Depressurization System (SSVS/SSDS): As soon as the final building plan becomes available, please submit the SSVS/SSDS detailed design for DTSC?s review and approval. o Health and Safety Plan (HSP): Please submit all contractors? HSPs to DTSC. o Storm Water Pollution Prevention Plan (SWPPP): Please submit the State Water Resources Control Board-approved SWPPPs to DTSC prior to site disturbance. o Community Update: Please prepare and submit a community update to DTSC for review and approval. CBS shall mail the

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

community update to people on the project mailing list notifying them of the commencement of the cleanup activities. o Monitoring Well Network: As soon as the final building design becomes available, please submit an updated figure depicting all monitoring well locations for DTSC?s review and approval. o Project Schedule: Please submit a project schedule outlining all cleanup activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 02/25/2010
Comments: DTSC approved the "Workplan to Perform Analytical Groundwater Profiling and Injecting Testing" (Workplan). CBS proposes (a) total volatile organic compounds profiling to select in-situ groundwater treatment locations and (b) field testing to determine the appropriate injection rate for oxygen release compound.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 10/12/2010
Comments: On 10/12/10, DTSC approved the Volatile Organic Compound Mitigation Workplan for in-situ treatment of volatile organic compounds (VOC) at the subject site. CBS plans to inject chemical at specified locations to treat VOC-impacted groundwater before excavation commences.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 09/09/2009
Comments: U.S. EPA approved the oWorkplan to Perform Pre-Excavation Soil Sampling for PCB Congenerso on 9/9/09. The workplan proposes subsurface soil PCB congener data to be used in developing risk-based action levels for airborne dust generated during construction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 11/18/2009
Comments: During a conference call on 11/10/09, Mr. Stephen F. Tyahla of U.S. EPA agreed that further sampling or analysis of PCB dioxin-like congeners is not technically feasible or warranted. It was agreed that the PCB aroclor results collected during this investigation along with existing site data will be used to assist in developing risk-based action levels for airborne dust generated during construction activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 03/19/2009
Comments: The Work Plan proposes collection and analysis of groundwater samples from 12 existing wells for volatile organic compounds. The results will be used to supplement available data in the human health risk assessment.

EMERYVILLE MOUND PARCEL (Continued) **S110121721**

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Public Notice
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Public Notice
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2015
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2016
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2016
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Plan
Future Due Date:	2015
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

150
SSE
1/2-1
0.572 mi.
3022 ft.

WESTINGHOUSE ELECTRIC COMPANY - EMERYVILLE **CA BOND EXP. PLAN** **S100833505**
5899 PELADEAU STREET **N/A**
EMERYVILLE, CA 94608

Relative:
Higher

Actual:
17 ft.

CA BOND EXP. PLAN:

Reponsible Party:	BACKLOG SITE CLEANUP PLANNING REPORT
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	This site is projected for cleanup funded by responsible parties with reimbursement to DHS for staff and related costs. However, if the responsible parties fail to provide funding for cleanup another source of funds will need to be established.
Site Description:	This site is a two acre, undeveloped and vacant area lying directly west of the

WESTINGHOUSE ELECTRIC COMPANY - EMERYVILLE (Continued) **S100833505**

Westinghouse Electric Company facility. Operations at this facility included maintenance and repair of electrical apparatus, including transformers cotaining polychlorinated biphenyls (PCB) fluids. In the course of maintenance, some of these liquids leaked on, or were discharged to the site.

Hazardous Waste Desc: The principal contaminant on the site is PCB.

Threat To Public Health & Env: The concerns for human health are primarily those of direct contact. The Westinghouse site is in an industrial area and, subsequent to the findings of PCB contamination, was fenced to exclude trespassers. A mainline, fenced, railroad right of way also secures the site from trespassers. Offsite contamination at an adjacent property has been identified by DHS sampling. The extent of offsite contamination has not been defined.

Site Activity Status: EPA assumed the lead responsibility in April, 1981 for the characterization of the site and the development and implementation of a remedial action for the site with advisory roles by DHS and the RWQCB. The remediation consisted of containment of soil and ground water contamination by means of an "engineered cap" and a slurry wall. The RWQCB issued cleanup and abatement order No. 85-006, dated January 21, 1985, pertaining to the prevention of soil movement from the site by surface water runoff control. Additional remedial investigation is currently ongoing because PCB contamination was discovered in a building onsite and along a railroad spur track between Westinghouse and an adjacent property. DHS has not scheduled this site for activity at this time. Any DHS assistance is expected to be limited. If more extensive assistance by DHS is necessary, then advance funding will need to be secured.

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151 **KNOWN** **HIST CORTESE** **S100178895**
East **6400 SAN PABLO** **LUST** **N/A**
1/2-1 **OAKLAND, CA 92626** **Notify 65**
0.588 mi.
3107 ft.

Relative:
Higher

Actual:
42 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1142

LUST:

Region:	STATE
Global Id:	T0600101052
Latitude:	37.847284
Longitude:	-122.28473
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/27/1994
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	CCM
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1142
LOC Case Number:	01-1142
File Location:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

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

Contact:

Global Id:	T0600101052

KNOWN (Continued) **S100178895**

Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101052
Contact Type: Local Agency Caseworker
Contact Name: DONALD HWANG
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: 5105676746

Status History:
Global Id: T0600101052
Status: Completed - Case Closed
Status Date: 09/27/1994

Global Id: T0600101052
Status: Open - Case Begin Date
Status Date: 01/20/1989

Regulatory Activities:
Global Id: T0600101052
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600101052
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600101052
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: 01-1142
Facility Status: Case Closed
Case Number: 01-1142
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported

KNOWN (Continued) **S100178895**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92626

AI152 **ELECTRO-COATINGS IND** **CERC-NFRAP** **1000181777**
NNE **893 CARLETON ST** **RCRA-LQG** **CAD009116211**
1/2-1 **BERKELEY, CA 94710** **FINDS**
0.608 mi. **NPDES**
3209 ft. **Site 1 of 3 in cluster AI** **HIST CORTESE**
CA FID UST
Relative: **SLIC**
Higher **HIST UST**
SWEEPS UST
Actual: **ENVIROSTOR**
36 ft. **WDS**

CERC-NFRAP:
Site ID: 0901139
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13052978.00000
Person ID: 9271184.00000

Contact Sequence ID: 13288511.00000
Person ID: 13003854.00000

Contact Sequence ID: 13294106.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299964.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 11/01/84
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 12/01/87
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /

ELECTRO-COATINGS IND (Continued) **1000181777**

Date Completed: 12/01/87
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-LQG:
Date form received by agency: 06/19/2012
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Facility address: 893 CARLETON STREET
BERKELEY, CA 947100000
EPA ID: CAD009116211
Mailing address: CARLETON STREET
BERKELEY, CA 947100000
Contact: AARON PLECHATY
Contact address: CARLETON STREET
BERKELEY, CA 947100000
Contact country: Not reported
Contact telephone: (510) 849-4075
Telephone ext.: 220
Contact email: APLECHATY@ELECTRO-COATINGS.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: ACME HOLDINGS, INC.
Owner/operator address: NORTHBROOK, STE 120
SAN ANTONIO, TX 78232
Owner/operator country: Not reported
Owner/operator telephone: 2107983460105
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/01/2005
Owner/Op end date: Not reported

Owner/operator name: ELECTRO-COATINGS OF CALIFORNIA, INC.
Owner/operator address: CARLETON STREET
BERKELEY, CA 94710
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1997
Owner/Op end date: Not reported

ELECTRO-COATINGS IND (Continued) **1000181777**

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

Historical Generators:
Date form received by agency: 05/28/2010
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS OF CALIFORNIA, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/26/2008
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS OF CALIFORNIA, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/10/2006
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS OF CALIFORNIA, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/06/2004
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS OF CALIFORNIA, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/10/2002
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS, INC.
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS OF CA, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS

ELECTRO-COATINGS IND (Continued) **1000181777**

Classification: Large Quantity Generator

Date form received by agency: 03/22/1996
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS INC.
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS INC
Classification: Large Quantity Generator

Date form received by agency: 01/23/1992
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS
Classification: Large Quantity Generator

Date form received by agency: 08/07/1980
Facility name: ELECTRO-COATINGS OF CALIFORNIA, INC
Site name: ELECTRO-COATINGS
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 132
Waste name: 132

Waste code: 172
Waste name: 172

Waste code: 181
Waste name: 181

Waste code: 331
Waste name: 331

Waste code: 343
Waste name: 343

Waste code: 723
Waste name: 723

Waste code: 792
Waste name: 792

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D004
Waste name: ARSENIC

Waste code: D007

ELECTRO-COATINGS IND (Continued) **1000181777**

Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D010
Waste name: SELENIUM

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 31869.2

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 19301.7

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 124865.5

Waste code: D008
Waste name: LEAD
Amount (Lbs): 61816.7

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 930

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/06/2008
Date achieved compliance: 09/02/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/06/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.40-43.D
Area of violation: Generators - General

ELECTRO-COATINGS IND (Continued) **1000181777**

Date violation determined: 06/21/2001
Date achieved compliance: 09/05/2001
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 07/24/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 06/21/2001
Date achieved compliance: 09/05/2001
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 07/24/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 06/21/2001
Date achieved compliance: 09/05/2001
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 07/24/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 10/30/1990
Date achieved compliance: 11/19/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/30/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/15/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

ELECTRO-COATINGS IND (Continued) **1000181777**

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/12/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/06/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/02/2009
Evaluation lead agency: State

Evaluation date: 03/13/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/31/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: Local

Evaluation date: 06/21/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/05/2001
Evaluation lead agency: EPA

Evaluation date: 10/30/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/19/1990
Evaluation lead agency: EPA

FINDS:

Registry ID: 110000886499

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

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

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

ELECTRO-COATINGS IND (Continued) **1000181777**

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

HAZARDOUS WASTE BIENNIAL REPORTER

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

NPDES:

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	2
Regulatory Measure Id:	180825
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 01I007260
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/23/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Electro Coating
Discharge Address:	893 Carleton St
Discharge City:	Berkeley
Discharge State:	California
Discharge Zip:	94710

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01340001

CA FID UST:

Facility ID:	01000002
Regulated By:	UTNKA
Regulated ID:	00003412
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4158494075
Mail To:	Not reported
Mailing Address:	SAME
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BERKELEY 94710
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported

ELECTRO-COATINGS IND (Continued) **1000181777**

Status: Active

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 03/08/2001
Global Id: SLT2O363253
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.8571005548451
Longitude: -122.293399572372
Case Type: Cleanup Program Site
Case Worker: MEJ
Local Agency: BERKELEY, CITY OF
RB Case Number: 01S0742
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

SLIC REG 2:
Region: 2
Facility ID: SLT2O363253
Facility Status: Leak being confirmed
Date Closed: Not reported
Local Case #: Not reported
How Discovered: GOV
Leak Cause: Not reported
Leak Source: Not reported
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST UST:
Region: STATE
Facility ID: 00000003412
Facility Type: Other
Other Type: METAL FINISHING
Total Tanks: 0009
Contact Name: WALTER LUND.
Telephone: 4158494075
Owner Name: ELECTRO-COATINGS INC.
Owner Address: 893 CARLETON STREET
Owner City,St,Zip: BERKELEY, CA 94710

Tank Num: 001
Container Num: 1
Year Installed: 1984
Tank Capacity: 00002088
Tank Used for: WASTE

ELECTRO-COATINGS IND (Continued) **1000181777**

Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual

Tank Num: 002
Container Num: 2
Year Installed: 1975
Tank Capacity: 00003055
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual, Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1976
Tank Capacity: 00002060
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual, Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: 1982
Tank Capacity: 00003991
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual, Stock Inventor

Tank Num: 005
Container Num: 6
Year Installed: 1970
Tank Capacity: 00000790
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual, Stock Inventor

Tank Num: 006
Container Num: MURIATIC 1
Year Installed: 1983
Tank Capacity: 00000582
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: Visual, Stock Inventor

Tank Num: 007
Container Num: 7
Year Installed: 1971
Tank Capacity: 00001176
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual, Stock Inventor

ELECTRO-COATINGS IND (Continued) **1000181777**

Tank Num: 008
Container Num: ELECTR-STR
Year Installed: 1970
Tank Capacity: 00000582
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual, Stock Inventor

Tank Num: 009
Container Num: CAUSTIC 1
Year Installed: 1970
Tank Capacity: 00000582
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 3/16 inches
Leak Detection: Visual, Stock Inventor

SWEEPS UST:
Status: Active
Comp Number: 3412
Number: 9
Board Of Equalization: 44-001456
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 1
Swrcb Tank Id: 01-020-003412-000001
Actv Date: 07-01-85
Capacity: 2088
Tank Use: UNKNOWN
Stg: W
Content: Not reported
Number Of Tanks: 9

Status: Active
Comp Number: 3412
Number: 9
Board Of Equalization: 44-001456
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 2
Swrcb Tank Id: 01-020-003412-000002
Actv Date: 07-01-85
Capacity: 3055
Tank Use: UNKNOWN
Stg: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 3412
Number: 9
Board Of Equalization: 44-001456

ELECTRO-COATINGS IND (Continued) **1000181777**

Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	3
Swrcb Tank Id:	01-020-003412-000003
Actv Date:	07-01-85
Capacity:	2060
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3412
Number:	9
Board Of Equalization:	44-001456
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	4
Swrcb Tank Id:	01-020-003412-000004
Actv Date:	07-01-85
Capacity:	3991
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3412
Number:	9
Board Of Equalization:	44-001456
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	6
Swrcb Tank Id:	01-020-003412-000005
Actv Date:	07-01-85
Capacity:	790
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3412
Number:	9
Board Of Equalization:	44-001456
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	MURIATIC 1
Swrcb Tank Id:	01-020-003412-000006

ELECTRO-COATINGS IND (Continued) **1000181777**

Actv Date:	07-01-85
Capacity:	582
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3412
Number:	9
Board Of Equalization:	44-001456
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	7
Swrcb Tank Id:	01-020-003412-000007
Actv Date:	07-01-85
Capacity:	1176
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3412
Number:	9
Board Of Equalization:	44-001456
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	ELECTR-STR
Swrcb Tank Id:	01-020-003412-000008
Actv Date:	07-01-85
Capacity:	582
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3412
Number:	9
Board Of Equalization:	44-001456
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	CAUSTIC 1
Swrcb Tank Id:	01-020-003412-000009
Actv Date:	07-01-85
Capacity:	582
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported

ELECTRO-COATINGS IND (Continued) **1000181777**

ENVIROSTOR:

Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Facility ID:	01340001
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Program:	* CERC2
Status:	Refer: Other Agency
Status Date:	10/21/1987
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.85720
Longitude:	-122.2934
APN:	54-1770-2-2
Past Use:	NONE SPECIFIED
Potential COC:	* HALOGENATED SOLVENTS, * Metals - Sludge, * ACID SOLUTION 2>PH WITH METALS, * Sludge - Degreasing
Confirmed COC:	* HALOGENATED SOLVENTS, * Metals - Sludge, * ACID SOLUTION 2>PH WITH METALS, * Sludge - Degreasing, NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	ELECTROPLATING INC
Alias Type:	Alternate Name
Alias Name:	54-1770-2-2
Alias Type:	APN
Alias Name:	CAD009116211
Alias Type:	EPA Identification Number
Alias Name:	110000886499
Alias Type:	EPA (FRS #)
Alias Name:	CAD009116211
Alias Type:	HWTS Identification Code
Alias Name:	01340001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/26/1993
Comments:	This facility is a possible source for the Cr(VI) found in groundwater below a neighboring facility (Macauley Foundry, 811 Carleton, Berkeley). There is no on-site data available Chromium was found at up to 60ppm in soil and 30 ppm in groundwater at the Macauley facility. The site appears to have no exposed soil, all areas not covered by the building appear to be paved. This facility has a sister facility in Emeryville at 1401 Park St., which has soil and groundwater contaminated with chromium and TCE. A former employee of th city of Berkeley said he beleived that in the past the facility disposed of wastes into the ground. The only known use of

ELECTRO-COATINGS IND (Continued) **1000181777**

groundwater in the immediate vicinity id for indust- rial purposes, according to the the well inventory provided the Alameda County Public Works Dept. A hazard ranking pack age will be prepared.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/21/1987
Comments: Preliminary Assessment Done: Recommend Site Inspection (low (priority) -- owner in Chapter 11 Facility has a history of numerous spills of hazardous waste to soil.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CA WDS:
Facility ID: San Francisco Bay 01I007260
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 5108494075
Facility Contact: TOM MARTIN
Agency Name: ELECTROCOATINGS
Agency Address: 893 Carleton St
Agency City,St,Zip: Berkeley 947102696
Agency Contact: TOM MARTIN
Agency Telephone: 5108494075
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher

ELECTRO-COATINGS IND (Continued) **1000181777**

Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

AI153 **COLGATE-PALMOLIVE** **LUST** **S103648237**
NNE **2700 7TH STREET** **ENVIROSTOR** **N/A**
1/2-1 **BERKELEY, CA 94710**
0.613 mi.
3236 ft. **Site 2 of 3 in cluster AI**

Relative:
Higher

Actual:
37 ft.

LUST:

Region:	STATE
Global Id:	T0600100260
Latitude:	37.855649
Longitude:	-122.294839
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/06/1992
Lead Agency:	BERKELEY, CITY OF
Case Worker:	GAF
Local Agency:	BERKELEY, CITY OF
RB Case Number:	01-0280
LOC Case Number:	01-0280
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

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

Contact:

Global Id:	T0600100260
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600100260
Contact Type:	Local Agency Caseworker
Contact Name:	GEOFFERY FIEDLER
Organization Name:	BERKELEY, CITY OF
Address:	2118 MILVIA STREET 3RD FLOOR
City:	BERKELEY
Email:	gfiedler@ci.berkeley.ca.us
Phone Number:	Not reported

Status History:

Global Id:	T0600100260
Status:	Completed - Case Closed
Status Date:	03/06/1992

COLGATE-PALMOLIVE (Continued) **S103648237**

Global Id: T0600100260
Status: Open - Case Begin Date
Status Date: 04/27/1989

Global Id: T0600100260
Status: Open - Site Assessment
Status Date: 06/06/1989

Regulatory Activities:
Global Id: T0600100260
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0600100260
Action Type: ENFORCEMENT
Date: 08/05/1997
Action: Closure/No Further Action Letter

Global Id: T0600100260
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0600100260
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 10.4
NPL: NO
Regulatory Agencies: HWMP, SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01280047
Site Code: Not reported
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Certified
Status Date: 03/28/1988
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.85584
Longitude: -122.2948
APN: 54-1748-2-1
Past Use: MANUFACTURING - OTHER
Potential COC: * UNSPECIFIED OIL CONTAINING WASTE, Trichloroethylene (TCE
Confirmed COC: * UNSPECIFIED OIL CONTAINING WASTE, Trichloroethylene (TCE,

COLGATE-PALMOLIVE (Continued) **S103648237**

Trichloroethylene (TCE, * UNSPECIFIED OIL CONTAINING WASTE, , 30027-NO
Not reported
Potential Description: OTH, SOIL, OTH, SOIL
Alias Name: 54-1748-2-1
Alias Type: APN
Alias Name: 01280047
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/14/2002
Comments: No action required. Confirmation samples were below residential levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/30/1984
Comments: Tank Removal Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 02/08/1983
Comments: Hazardous Materials report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/18/1984
Comments: Further Action Required

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/28/1988
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AI154 **COLGATE PALMOLIVE CO** **RCRA-SQG** **1000233074**
NNE **2700 SEVENTH ST** **FTTS** **CAD009173733**
1/2-1 **BERKELEY, CA** **HIST FTTS**
0.613 mi. **FINDS**
3236 ft. **Site 3 of 3 in cluster AI** **HIST Cal-Sites**
LUST
Relative: **CA FID UST**
Higher **HIST UST**

Actual: **37 ft.**

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	COLGATE PALMOLIVE CO
Facility address:	2700 7TH ST BERKELEY, CA 94710
EPA ID:	CAD009173733
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	COLGATE-PALMOLIVE COMPANY
Owner/operator address:	300 PARK AVENUE NEW YORK, NY 10022
Owner/operator country:	Not reported
Owner/operator telephone:	(212) 751-1200
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	COLGATE-PALMOLIVE COMPANY
Owner/operator address:	300 PARK AVENUE CITY NOT REPORTED, NY 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(212) 751-1200
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

COLGATE PALMOLIVE CO (Continued) **1000233074**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/14/1980
Facility name: COLGATE PALMOLIVE CO
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 12/27/1984
Date achieved compliance: 03/25/1985
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/18/1984
Date achieved compliance: 03/25/1985
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/25/1985
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/27/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/25/1985
Evaluation lead agency: State

COLGATE PALMOLIVE CO (Continued) **1000233074**

Evaluation date: 01/18/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/25/1985
Evaluation lead agency: State

FTTS:
Case Number: Not reported
Docket Number: 09-89-0005
Complaint Issue Date: 04/10/89
Abatement Amount: 3000.0000
Proposed Penalty: 45000.0000
Final Assessment: 7000.0000
Final Order Date: 12/14/89
Close Date: / /
Violations(s): PCB, Failure to Maintain Records
PCB, Label or Marking
PCB, Use

FTTS INSP:
Inspection Number: 1988092000991 1
Region: 09
Inspection Date: 09/20/88
Inspector: ELLISON
Violation occurred: Yes
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

HIST FTTS:
Case Number: Not reported
Docket Number: 09-89-0005
Complaint Issue Date: 04/10/1989
Abatement Amount: 3000.0000
Proposed Penalty: 45000.0000
Final Assessment: 7000.0000
Final Order Date: 12/14/1989
Close Date: / /
Violations(s): PCB, Failure to Maintain Records
PCB, Label or Marking
PCB, Use

HIST FTTS INSP:
Inspection Number: 1988092000991 1
Region: 09
Inspection Date: Not reported
Inspector: ELLISON
Violation occurred: Yes
Investigation Type: Section 6 PCB Federal Conducted
Investigation Reason: Neutral Scheme, Region
Legislation Code: TSCA
Facility Function: User

COLGATE PALMOLIVE CO (Continued) **1000233074**

FINDS:

Registry ID: 110011659366

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

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

Calsite:

Facility ID:	01280047
Region:	2
Region Name:	BERKELEY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	03281988
Status:	CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name:	CERTIFIED
Lead Agency:	DTSC
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
Facility Type:	RP
Type Name:	RESPONSIBLE PARTY
NPL:	Not reported
SIC Code:	28
SIC Name:	MANU - CHEMICALS & ALLIED PRODUCTS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
Staff Member Responsible for Site:	CJEMISON
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	Not reported
Region Water Control Board Name:	Not reported
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	14
State Senate District Code:	09
Facility ID:	01280047
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0

COLGATE PALMOLIVE CO (Continued) **1000233074**

AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01011985
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	2700 7TH STREET
Alternate City,St,Zip:	BERKELEY, CA 94710
Background Info:	The Colgate-Palmolive Company plant (10.4 acres) in Berkeley, produced soaps, and personal and household cleaning products from 1916 until 1981. It consisted of 27 buildings, a tank farm, several individual storage tanks, and other structures. Colgate-Palmolive Company was issued an Interim Status Document in April 6, 1981. In October 1981 the Colgate-Palmolive plant ceased operation at the site.
Comments Date:	03281988
Comments:	Certified Site. Cleanup of the site began in early 1985 and was
Comments Date:	03281988
Comments:	completed in December 1985. Soils were excavated and disposed
Comments Date:	03281988
Comments:	offsite. Sampling in March 1985, after the cleanup, found
Comments Date:	03281988
Comments:	metals concentrations below either background levels or
Comments Date:	03281988
Comments:	residential screening levels. The samples taken in January 1986
Comments Date:	03281988
Comments:	found concentration of oil and grease (220-11,000 ppm) and total
Comments Date:	03281988
Comments:	fuel hydrocarbon (370 ppm). Groundwater was found to be
Comments Date:	03281988
Comments:	contaminated with solvents (trichloroethane and
Comments Date:	03281988
Comments:	trichloroethylene). However, the source of the solvents is
Comments Date:	03281988
Comments:	considered off-site and the SF Regional Water Quality Control
Comments Date:	03281988
Comments:	Board agreed not to hold Colgate Palmolive responsible.
Comments Date:	03281988
Comments:	Appropriate remediation have been completed and no further
Comments Date:	03281988
Comments:	removal/remedial action is necessary. Lawrence Livermore
Comments Date:	03281988
Comments:	National Laboratory Receiving Center now occupies the site.
ID Name:	Not reported

COLGATE PALMOLIVE CO (Continued) **1000233074**

ID Value: Not reported
Alternate Name: COLGATE-PALMOLIVE
Special Programs Code: Not reported
Special Programs Name: Not reported

LUST REG 2:
Region: 2
Facility Id: 01-0280
Facility Status: Case Closed
Case Number: 01-0280
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 6/6/1989
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CA FID UST:
Facility ID: 01000385
Regulated By: UTNKA
Regulated ID: 00048029
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4158451500
Mail To: Not reported
Mailing Address: 2700 7TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: BERKELEY 94710
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST UST:
Region: STATE
Facility ID: 00000048029
Facility Type: Other
Other Type: INDUSTRIAL PLANT
Total Tanks: 0004
Contact Name: RALPH TIERNEY
Telephone: 4158451500
Owner Name: COLGATE-PALMOLIVE COMPANY
Owner Address: 300 PARK AVENUE
Owner City,St,Zip: NEW YORK, NY 10022

Tank Num: 001
Container Num: 1
Year Installed: Not reported

COLGATE PALMOLIVE CO (Continued) **1000233074**

Tank Capacity: 00006500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00006600
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00012300
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

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155 **HSP PROPERTY** **RESPONSE S113473406**
SE **1301 59TH STREET** **ENVIROSTOR N/A**
1/2-1 **EMERYVILLE, CA 94608**
0.621 mi.
3281 ft.

Relative:
Higher

Actual:
25 ft.

RESPONSE:
Facility ID: 60001876
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.27
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Karen Toth
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: Not reported
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 15
Senate: 09
Special Program Status: Polanco Redevelopment MOA
Status: No Further Action
Status Date: 03/18/2013

HSP PROPERTY (Continued) **S113473406**

Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.84172
Longitude:	-122.2882
APN:	049 147700800
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	Arsenic, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, TPH-gas, TPH-MOTOR OIL
Confirmed COC:	Arsenic, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Arsenic, Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Polychlorinated biphenyls (PCBs
Potential Description:	SOIL
Alias Name:	049 147700800
Alias Type:	APN
Alias Name:	60001876
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Further Action Letter
Completed Date:	03/18/2013
Comments:	DTSC concurred that no further action is needed for soils at this site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/10/2011
Comments:	The RAW require the removal and offsite disposal of soil contaminated with PCBs, Lead and arsenic. This work is being done under the oversight of the City of CEmeryville. DTSC provided review and concurrence.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	03/18/2013
Comments:	All soil contamination removed to unrestricted levels. This work is being done under the oversight of the City of Emeryville. DTSC provided review and concurrence.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	0.27
NPL:	NO

HSP PROPERTY (Continued) **S113473406**

Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Karen Toth
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	60001876
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Program:	Polanco Redevelopment MOA
Status:	No Further Action
Status Date:	03/18/2013
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.84172
Longitude:	-122.2882
APN:	049 147700800
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	Arsenic, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, TPH-gas, TPH-MOTOR OIL
Confirmed COC:	Arsenic, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Arsenic, Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Polychlorinated biphenyls (PCBs
Potential Description:	SOIL
Alias Name:	049 147700800
Alias Type:	APN
Alias Name:	60001876
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Further Action Letter
Completed Date:	03/18/2013
Comments:	DTSC concurred that no further action is needed for soils at this site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/10/2011
Comments:	The RAW require the removal and offsite disposal of soil contaminated with PCBs, Lead and arsenic. This work is being done under the oversight of the City of CEmeryville. DTSC provided review and concurrence.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	03/18/2013
Comments:	All soil contamination removed to unrestricted levels. This work is being done under the oversight of the City of Emeryville. DTSC provided review and concurrence.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

HSP PROPERTY (Continued) **S113473406**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AJ156 **BAY STREET EXTENSION** **DEED** **S102564428**
SSE **64TH & POWELL STREETS** **VCP** **N/A**
1/2-1 **EMERYVILLE, CA 94608** **ENVIROSTOR**
0.625 mi.
3301 ft. **Site 1 of 2 in cluster AJ**

Relative:
Lower

Actual:
12 ft.

DEED:
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Deed Date(s): 06/28/1996
EDR Link ID: 1330046

Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Deed Date(s): 07/01/1997
EDR Link ID: 1330046

VCP:
Facility ID: 01330046
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: REM, ASP, DAY, ELD, HOS, LUC, EX, NDAM, NUSE, NDEV, NSUB, HS, SCH, FOOD, COV, RES
Acres: 8.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, ALAMEDA COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: Not reported
Assembly: 15
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Certified / Operation & Maintenance
Status Date: 07/09/1997
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 37.84227 / -122.2932
APN: 49-1492-10, 49-1493-10, 49-1493-11, 49-1493-9
Past Use: ILLEGAL DUMPING
Potential COC: 30013
Confirmed COC: 30013
Potential Description: SOIL
Alias Name: BAY STREET EXTENSION

BAY STREET EXTENSION (Continued) **S102564428**

Alias Type: Alternate Name
Alias Name: Part of Shellmound/40th Street Overhead Site
Alias Type: Alternate Name
Alias Name: 49-1492-10
Alias Type: APN
Alias Name: 49-1493-10
Alias Type: APN
Alias Name: 49-1493-11
Alias Type: APN
Alias Name: 49-1493-9
Alias Type: APN
Alias Name: 110033617174
Alias Type: EPA (FRS #)
Alias Name: 01330046
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/22/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2012
Comments: DTSC conducted its annual site visit to check the condition of the cap and to verify compliance with the restrictions and requirements of the Land Use Covenant. During the inspection, the roadway, medians, and sidewalk were observed to be in good condition. There was no evidence of any activities prohibited by the Land Use Covenant.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/29/2010
Comments: The property is currently the location of a roadway that connects Shellmound Way to 64th Street. Upon inspection, the roadway, medians, and sidewalk were observed to be in good condition. There was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/05/2009
Comments: Upon inspection, the roadway, medians, sidewalk and sewer pipe repair activities appeared to be in good condition. A sewer pipe repair activities were conducted on May 20 and 21 of 2008. A damaged/leaking cast iron line was repaired by placing a plastic pipe/sleeve within the damaged line. There was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 06/19/1997

BAY STREET EXTENSION (Continued) **S102564428**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/07/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/09/2008
Comments: There was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/02/2005
Comments: Cap Inspection Report signed off. Upon observing the current site conditions, DTSC concludes that they remain protective of human health and the environment. Impacted soil remains under the concrete surface, which remains undisturbed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/19/2004
Comments: Cap Inspection Report signed off. Upon observing the current site conditions, DTSC concludes that the selected remedial action remains protective of human health and the environment. Impacted soil remains under the asphalt surface, which is in good condition and remains protective.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/08/2009
Comments: Upon observing the current site conditions, DTSC concludes that the remedies remain protective of human health and the environment. Impacted soil remains under the concrete surface, which remains undisturbed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/11/2008
Comments: The removal consisted of trenching to approximately 4 feet below ground surface at two locations and repairing sewer pipe located between the two excavations beneath Shellmound Street. Approximately 5 cubic yards of soil was excavated and disposed as non-hazardous

BAY STREET EXTENSION (Continued) **S102564428**

soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/11/2009
Comments: The Department of Toxic Substances Control (DTSC) has completed a FiveuYear Review of the cleanup of contaminated soil at the Bay Street Extension (Site) located at 64TH and Powell in Emeryville, California. DTSC has prepared this five-year report and determined that the cap and land use restrictions continue to be an effective barrier to the contaminated soil and protective of human health and the environment. The public notice is published in Oakland Tribune 9/11/2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/03/1995
Comments: Results of borings collected along proposed Bay Street Route.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 08/28/1992
Comments: Evaluation of potential hazards for the Extension Project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/02/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/28/1996
Comments: This deed restriction includs portions of Bay Street (Formerly Shellmound) South of Powell Street

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 04/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/20/1997
Comments: Contaminated soil was excavated and disposed off-site. The completed roadway acts as a cap to prevent exposure to residual levels of contaminated soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report

BAY STREET EXTENSION (Continued) **S102564428**

Completed Date:	05/30/1996
Comments:	Completed PEA. Sampling results revealed the presence of petroleum hydrocarbons, metals, PCBs and polycyclic aromatic hydrocarbons.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	07/01/1997
Comments:	Recorded Deed Restriction limiting future use to roadway.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	07/09/1997
Comments:	Certified Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/28/2007
Comments:	Not reported
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2014
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	8.5
NPL:	NO
Regulatory Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	SMBRP
Program Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01330046
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	07/09/1997
Restricted Use:	YES
Site Mgmt. Req.:	REM, ASP, DAY, ELD, HOS, LUC, EX, NDAM, NUSE, NDEV, NSUB, HS, SCH, FOOD, COV, RES
Funding:	Responsible Party
Latitude:	37.84227
Longitude:	-122.2932
APN:	49-1492-10, 49-1493-10, 49-1493-11, 49-1493-9
Past Use:	ILLEGAL DUMPING

BAY STREET EXTENSION (Continued) **S102564428**

Potential COC: Lead
Confirmed COC: Lead, Lead
Potential Description: SOIL
Alias Name: BAY STREET EXTENSION
Alias Type: Alternate Name
Alias Name: Part of Shellmound/40th Street Overhead Site
Alias Type: Alternate Name
Alias Name: 49-1492-10
Alias Type: APN
Alias Name: 49-1493-10
Alias Type: APN
Alias Name: 49-1493-11
Alias Type: APN
Alias Name: 49-1493-9
Alias Type: APN
Alias Name: 110033617174
Alias Type: EPA (FRS #)
Alias Name: 01330046
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/22/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2012
Comments: DTSC conducted its annual site visit to check the condition of the cap and to verify compliance with the restrictions and requirements of the Land Use Covenant. During the inspection, the roadway, medians, and sidewalk were observed to be in good condition. There was no evidence of any activities prohibited by the Land Use Covenant. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/29/2010
Comments: The property is currently the location of a roadway that connects Shellmound Way to 64th Street. Upon inspection, the roadway, medians, and sidewalk were observed to be in good condition. There was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/05/2009
Comments: Upon inspection, the roadway, medians, sidewalk and sewer pipe repair activities appeared to be in good condition. A sewer pipe repair activities were conducted on May 20 and 21 of 2008. A damaged/leaking cast iron line was repaired by placing a plastic pipe/sleeve within the damaged line. There was no evidence of any activities prohibited by the Deed Restriction.

BAY STREET EXTENSION (Continued) **S102564428**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/07/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/09/2008
Comments: There was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/02/2005
Comments: Cap Inspection Report signed off. Upon observing the current site conditions, DTSC concludes that they remain protective of human health and the environment. Impacted soil remains under the concrete surface, which remains undisturbed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/19/2004
Comments: Cap Inspection Report signed off. Upon observing the current site conditions, DTSC concludes that the selected remedial action remains protective of human health and the environment. Impacted soil remains under the asphalt surface, which is in good condition and remains protective.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/08/2009
Comments: Upon observing the current site conditions, DTSC concludes that the remedies remain protective of human health and the environment. Impacted soil remains under the concrete surface, which remains undisturbed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/11/2008

BAY STREET EXTENSION (Continued) **S102564428**

Comments: The removal consisted of trenching to approximately 4 feet below ground surface at two locations and repairing sewer pipe located between the two excavations beneath Shellmound Street. Approximately 5 cubic yards of soil was excavated and disposed as non-hazardous soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/11/2009
Comments: The Department of Toxic Substances Control (DTSC) has completed a FiveuYear Review of the cleanup of contaminated soil at the Bay Street Extension (Site) located at 64TH and Powell in Emeryville, California. DTSC has prepared this five-year report and determined that the cap and land use restrictions continue to be an effective barrier to the contaminated soil and protective of human health and the environment. The public notice is published in Oakland Tribune 9/11/2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/03/1995
Comments: Results of borings collected along proposed Bay Street Route.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 08/28/1992
Comments: Evaluation of potential hazards for the Extension Project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/02/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/28/1996
Comments: This deed restriction includs portions of Bay Street (Formerly Shellmound) South of Powell Street

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 04/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/20/1997
Comments: Contaminated soil was excavated and disposed off-site. The completed roadway acts as a cap to prevent exposure to residual levels of contaminated soil.

BAY STREET EXTENSION (Continued) **S102564428**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/30/1996
Comments: Completed PEA. Sampling results revealed the presence of petroleum hydrocarbons, metals, PCBs and polycyclic aromatic hydrocarbons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/01/1997
Comments: Recorded Deed Restriction limiting future use to roadway.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 07/09/1997
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/28/2007
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2014
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AJ157 **WOODFIN SUITE HOTEL** **HIST CORTESE** **S101306386**
SSE **5800 SHELLMOUND** **SLIC** **N/A**
1/2-1 **EMERYVILLE, CA 94608** **Alameda County CS**
0.626 mi. **ENVIROSTOR**
3307 ft. **Site 2 of 2 in cluster AJ**

Relative:
Lower

Actual:
12 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1047

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/19/2002
Global Id: T06019716054
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0002769
Latitude: 37.839559
Longitude: -122.292929
Case Type: Cleanup Program Site

WOODFIN SUITE HOTEL (Continued) **S101306386**

Case Worker:	SH
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Waste Oil / Motor / Hydraulic / Lubricating, Lead, Arsenic, Other Solvent or Non-Petroleum Hydrocarbon, Gasoline
Site History:	Not reported

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

Alameda County CS:

Status:	Case Closed
Record Id:	RO0002769
PE:	5502

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	2.01
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Allan Fone
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Facility ID:	60000985
Site Code:	201136
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	No Further Action
Status Date:	11/05/2008
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	37.83955
Longitude:	-122.2929
APN:	049 149301100, 049-1493-011
Past Use:	MANUFACTURING - OTHER
Potential COC:	Polynuclear aromatic hydrocarbons (PAHs
Confirmed COC:	Polynuclear aromatic hydrocarbons (PAHs, Polynuclear aromatic hydrocarbons (PAHs
Potential Description:	SOIL
Alias Name:	049 149301100
Alias Type:	APN
Alias Name:	049-1493-011
Alias Type:	APN
Alias Name:	201136
Alias Type:	Project Code (Site Code)
Alias Name:	60000985
Alias Type:	Envirostor ID Number

Completed Info:

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

WOODFIN SUITE HOTEL (Continued) **S101306386**

Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

158
South
1/2-1
0.634 mi.
3345 ft.

BRE GATEWAY DEVELOPMENT **VCP S108649758**
5801, 5855 AND 5857 CHRISTIE AVENUE **ENVIROSTOR N/A**
EMERYVILLE, CA 94608

Relative:
Lower

Actual:
13 ft.

VCP:

Facility ID:	60000651
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3.3
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201747
Assembly:	15
Senate:	09
Special Programs Code:	Not reported
Status:	Inactive - Action Required
Status Date:	10/06/2008
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.83911 / -122.2956
APN:	049 149400302, 049 149400408, 049-1494-003-02, 049-1494-004-08
Past Use:	LDF
Potential COC:	30001, 30013, 30019, 30021, 30024, 3002502, 30032, 30058, 30108, 30156, 30484
Confirmed COC:	30484,30019,30021,30024,30032,30058,30108,30156,30001,30013,3002502
Potential Description:	OTH, SOIL
Alias Name:	049 149400302
Alias Type:	APN
Alias Name:	049 149400408
Alias Type:	APN
Alias Name:	049-1494-003-02
Alias Type:	APN
Alias Name:	049-1494-004-08
Alias Type:	APN
Alias Name:	110033619234
Alias Type:	EPA (FRS #)
Alias Name:	201747

BRE GATEWAY DEVELOPMENT (Continued) **S108649758**

Alias Type: Project Code (Site Code)
Alias Name: 60000651
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/15/2007
Comments: VCA executed 10/12/07. Two original signed copies. One copy sent to to RP 10/15/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/06/2008
Comments: Letter terminating VCA mailed 10/6/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/26/2007
Comments: Review of existing data indicates further site characterization is needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 08/05/2008
Comments: Project proponent requested termination of VCA. BRE has put redevelopment plans for the site, including site investigation and cleanup, on hold.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/14/2008
Comments: Letter mailed 8/14/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/12/2008
Comments: Cost recovery closeout memo finalized and sent to HQ.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup

BRE GATEWAY DEVELOPMENT (Continued) **S108649758**

Site Type Detailed:	Voluntary Cleanup
Acres:	3.3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	60000651
Site Code:	201747
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Inactive - Action Required
Status Date:	10/06/2008
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.83911
Longitude:	-122.2956
APN:	049 149400302, 049 149400408, 049-1494-003-02, 049-1494-004-08
Past Use:	LDF
Potential COC:	Arsenic, Lead, Polynuclear aromatic hydrocarbons (PAHs, Silver, TPH-diesel, TPH-MOTOR OIL, Acetone, Antimony and compounds, Cadmium and compounds, Copper and compounds, Naphthalene
Confirmed COC:	Arsenic, Lead, Polynuclear aromatic hydrocarbons (PAHs, Silver, TPH-diesel, TPH-MOTOR OIL, Acetone, Antimony and compounds, Cadmium and compounds, Copper and compounds, Naphthalene, Naphthalene, Polynuclear aromatic hydrocarbons (PAHs, Silver, TPH-diesel, Acetone, Antimony and compounds, Cadmium and compounds, Copper and compounds, Arsenic, Lead, TPH-MOTOR OIL
Potential Description:	OTH, SOIL
Alias Name:	049 149400302
Alias Type:	APN
Alias Name:	049 149400408
Alias Type:	APN
Alias Name:	049-1494-003-02
Alias Type:	APN
Alias Name:	049-1494-004-08
Alias Type:	APN
Alias Name:	110033619234
Alias Type:	EPA (FRS #)
Alias Name:	201747
Alias Type:	Project Code (Site Code)
Alias Name:	60000651
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	10/15/2007
Comments:	VCA executed 10/12/07. Two original signed copies. One copy sent to to RP 10/15/07.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence

BRE GATEWAY DEVELOPMENT (Continued) **S108649758**

Completed Date: 10/06/2008
Comments: Letter terminating VCA mailed 10/6/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/26/2007
Comments: Review of existing data indicates further site characterization is needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 08/05/2008
Comments: Project proponent requested termination of VCA. BRE has put redevelopment plans for the site, including site investigation and cleanup, on hold.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/14/2008
Comments: Letter mailed 8/14/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/12/2008
Comments: Cost recovery closeout memo finalized and sent to HQ.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

159
South
1/2-1
0.651 mi.
3436 ft.

A & J TRUCKING, INC **Notify 65** **U000057368**
5600 SHELLMOND AVENUE **N/A**
EMERYVILLE, CA 92633

Relative:
Lower

Actual:
12 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92633

160
North
1/2-1
0.656 mi.
3464 ft.

MILES INC CUTTER BIOLOGICAL FACILITY #38 — **ENVIROSTOR** — **S102008171**
4TH AND PARKER STREETS — **N/A**
BERKELEY, CA 94710

Relative:
Higher

Actual:
27 ft.

ENVIROSTOR:

Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Berkeley
Facility ID:	01280085
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Refer: Other Agency
Status Date:	03/13/1995
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.8575
Longitude:	-122.2966
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* HALOGENATED SOLVENTS, * OTHER ORGANIC SOLIDS
Confirmed COC:	* HALOGENATED SOLVENTS, * OTHER ORGANIC SOLIDS, NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CUTTER BIOLOGICAL
Alias Type:	Alternate Name
Alias Name:	01280085
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/18/1991
Comments:	SITE SCREENING DONE SITE WAS VETERINARY PHARMACEUTICAL RE- SEARCH AND DEVELOPMENT FACILITY FROM MID 1940'S TO 1950'S. A SCREWWORM REPELENT WAS DEVELOPED & TESTED; IT WAS THEN BLENDED WITH A SOLVENT AND COAL TAR BASE FOR APPLICATION TO ANIMAL WOUNDS. SUR- FACE SOIL SAMPLES HAD CARBON TETRA- CHLORIDE (18 MG/KG), CHLOROFORM 994 MG/ KG) AND OTHER PURGEABLE ORGANICS. ONE AREA HAD TOTAL PETROLEUM HYDROCARBON 2,000 PPM @ 30 INCHES BELOW GROUND SUR- FACE, AND POLYNUCLEAR AROMATICS 410 MG/ KG @ 12 INCHES BELOW THE GROUND SURFACE. A GRAB WATER SAMPLE WAS ANALYZED AND DID NOT HAVE TPH. PEA MEDIUM. THE RP IS WORKING W/CITY HEALTH SERVICES DEPT. IN REMEDIATION
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported

MILES INC CUTTER BIOLOGICAL FACILITY #38 (Continued) **S102008171**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

161
SSE
1/2-1
0.662 mi.
3495 ft.

Relative:
Higher

Actual:
20 ft.

OWENS TRUCKING AND CONCRETE SA
5812 HOLLIS ST
EMERYVILLE, CA 94608

NPDES **S101624445**
HIST CORTESE **N/A**
LUST
CA FID UST
Alameda County CS
SWEEPS UST
VCP
ENVIROSTOR

NPDES:

Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	2
Regulatory Measure Id:	404114
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 01C358623
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/17/2010
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	ES Triangle II LC
Discharge Address:	1120 Nye Street Suite 400
Discharge City:	San Rafael
Discharge State:	California
Discharge Zip:	94901

Npdes Number:	Not reported
Facility Status:	Historical
Agency Id:	523216
Region:	2
Regulatory Measure Id:	374613
Order No:	Not reported
Regulatory Measure Type:	Enrollee
Place Id:	753920
WDID:	2019474001
Program Type:	NPDESWW
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/12/2010
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	02/28/2012
Discharge Name:	Emery Station Triangle 2, LLC Attn.: Mr. Geoff Sears
Discharge Address:	1120 Nye Street 400
Discharge City:	San Rafael
Discharge State:	CA
Discharge Zip:	94901

CORTESE:

Region:	CORTESE
Facility County Code:	1

OWENS TRUCKING AND CONCRETE SA (Continued) **S101624445**

Reg By: LTNKA
Reg Id: 01-1206

LUST:
Region: STATE
Global Id: T0600101109
Latitude: 37.8406482587036
Longitude: -122.289226055145
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/21/2011
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: BJJ
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1206
LOC Case Number: RO0000201
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: The Site consists of an approximately 40,000 square foot triangular-shaped lot which is currently being redeveloped as a multistory office building with sub-grade parking. The Site is bounded by Hollis Street to the west, a commercial building immediately to the north, and a public greenway to the east. The southern tip of the Site is at the intersection of Hollis Street and Powell Street. Two USTs (one 8,000 gallon diesel and one 3,000 gallon gasoline) and the associated dispenser island were installed in the northern portion of the property in 1977, and the USTs and dispenser island were removed in December 1989. During removal activities, petroleum hydrocarbons were observed in soil and groundwater, pitting and holes were observed in the USTs and a hydrocarbon sheen was observed in the water that had collected in the excavation. Up to 23 mg/kg of TPH-d was detected in soil samples from the excavation. Groundwater samples from the excavation contained maximum concentrations of 90,000 g/L TPH-d, 2,300 g/L TPH-g, 100 g/L benzene, 200 g/L toluene, 40 g/L ethylbenzene, and 310 g/L xylenes. On 17 June 1993, Summit Engineering supervised installation of groundwater monitoring well MW-1 approximately 10 feet southwest of the former USTs. During well installation, groundwater was first encountered at approximately 12 feet below ground surface (bgs). Groundwater was measured at approximately 5 feet bgs 48 hours after well construction and the sample was below the detection limits. The well was analyzed 3 times through 1994 with similar results. Subsequent MTBE analysis was below the detection limit of 2 ppb. From January to March 2008, Treadwell and Rollo performed an investigation which included advancing 18 borings across the entire site (TR-1 through TR-18) to depths between 1.5 feet to 28 feet bgs. Grab groundwater samples were collected from eleven of the borings. Maximum petroleum hydrocarbon concentrations in soil were 57 mg/kg TPHd and 309 mg/kg TPHmo. Maximum petroleum hydrocarbon concentrations in groundwater were 656 g/L TPHg and 133 g/L TPHd. Based on the results of the previous investigation, five additional borings (TR-19 through TR-24) were advanced to collect soil and groundwater samples in April 2008. Soil samples were collected from each of the borings. A groundwater sample was collected from one boring (TR-19). Soil and groundwater samples were analyzed for some or all of the following analytes: TPH-g, TPH-d, TPH-mo, PCBs, SVOCs (including PAHs), VOCs, and metals. In

OWENS TRUCKING AND CONCRETE SA (Continued) **S101624445**

July 2009, Treadwell & Rollo advanced four borings (UST-1 through UST-4) to depths between 20 to 30 ft bgs in the area of the former northern USTs. Maximum petroleum hydrocarbon concentrations in soil were 1.9 mg/kg TPHg, 530 mg/kg TPHd and 290 mg/kg TPHmo. Maximum petroleum hydrocarbon concentrations in groundwater were 960 g/L TPHg and 29,000 g/L TPHd and 17,000 TPHmo. In July 2010, Pacific States performed targeted excavation work to remove previously delineated lead impacted soil in shallow soil around the Site for the open DTSC case (Envirstor #0001261) also located at the site, and hydrocarbon impacted soil in the vicinity of the former northern UST. The UST-related excavation covered an area of approximately 665 ft2 and was extended to a depth of approximately 15 feet deep (approximately 370 yd3). Excavated soil was off-hauled for disposal at an appropriately permitted facility. In August 2010, a 1,000-gallon gasoline UST was removed by Golden Gate Tank Removal Company from the southern portion of the property. The excavation covered an area of approximately 60 ft2 and extended approximately 12 feet deep. The maximum concentrations detected in confirmation soil samples were 224 mg/kg TPHmo and 7.4 mg/kg lead. In 2011 the entire site was excavated to a depth of 15 feet bgs. As required in the Soil Management Plan, soil samples were collected from the sidewalls and bottom of the excava

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

Contact:

Global Id:	T0600101109
Contact Type:	Regional Board Caseworker
Contact Name:	Cherie McCaulou
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	cmccaulou@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0600101109
Contact Type:	Local Agency Caseworker
Contact Name:	BARBARA JAKUB
Organization Name:	ALAMEDA COUNTY LOP
Address:	1131 HARBOR BAY PARKWAY
City:	ALAMEDA
Email:	Not reported
Phone Number:	5106391287

Status History:

Global Id:	T0600101109
Status:	Completed - Case Closed
Status Date:	11/21/2011

Global Id:	T0600101109
Status:	Open - Case Begin Date
Status Date:	12/05/1989

Global Id:	T0600101109
Status:	Open - Site Assessment
Status Date:	06/17/1993

OWENS TRUCKING AND CONCRETE SA (Continued) **S101624445**

Regulatory Activities:

Global Id:	T0600101109
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped
Global Id:	T0600101109
Action Type:	ENFORCEMENT
Date:	10/18/2011
Action:	Notification - Public Notice of Case Closure - #20111018
Global Id:	T0600101109
Action Type:	ENFORCEMENT
Date:	07/24/2009
Action:	Staff Letter - #20090724
Global Id:	T0600101109
Action Type:	ENFORCEMENT
Date:	06/23/2011
Action:	Staff Letter - #20110623
Global Id:	T0600101109
Action Type:	ENFORCEMENT
Date:	07/24/2008
Action:	Staff Letter - #20080724
Global Id:	T0600101109
Action Type:	ENFORCEMENT
Date:	07/03/2008
Action:	Staff Letter - #20080703
Global Id:	T0600101109
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0600101109
Action Type:	RESPONSE
Date:	07/13/2009
Action:	Soil and Water Investigation Report
Global Id:	T0600101109
Action Type:	ENFORCEMENT
Date:	11/21/2011
Action:	Closure/No Further Action Letter - #2011212011
Global Id:	T0600101109
Action Type:	ENFORCEMENT
Date:	12/23/2010
Action:	Staff Letter - #20101223
Global Id:	T0600101109
Action Type:	ENFORCEMENT
Date:	05/05/2008
Action:	File review - #20080505
Global Id:	T0600101109

OWENS TRUCKING AND CONCRETE SA (Continued) **S101624445**

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

Global Id: T0600101109
Action Type: ENFORCEMENT
Date: 04/13/2009
Action: Staff Letter - #20090413

CA FID UST:
Facility ID: 01000910
Regulated By: UTNKI
Regulated ID: 00064704
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154281485
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: EMERYVILLE 94608
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000201
PE: 5602

Status: Verificaiton Monitoring Underway
Record Id: RO0000201
PE: 5602

Status: Case Closed
Record Id: RO0000201
PE: 5602

SWEEPS UST:
Status: Not reported
Comp Number: 64704
Number: Not reported
Board Of Equalization: 44-000696
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-064704-000001
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL

OWENS TRUCKING AND CONCRETE SA (Continued) **S101624445**

Stg: PRODUCT
Content: LEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 64704
Number: Not reported
Board Of Equalization: 44-000696
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-064704-000002
Actv Date: Not reported
Capacity: 10000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

VCP:
Facility ID: 60001261
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Juanita (Nina) Bacey
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201875
Assembly: 15
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 10/20/2011
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.84028 / -122.2891
APN: NONE SPECIFIED
Past Use: EQUIPMENT/INSTRUMENT REPAIR, MANUFACTURING - OTHER
Potential COC: 30001, 30013, 30024, 30025, 3002502, 30587, 30594
Confirmed COC: 30001,30013,30024,30025,3002502,30587,30594
Potential Description: OTH, SOIL
Alias Name: 201875
Alias Type: Project Code (Site Code)
Alias Name: 60001261
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan

OWENS TRUCKING AND CONCRETE SA (Continued) **S101624445**

Completed Date:	05/03/2010
Comments:	This document has not been reviewed and approved by DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	10/20/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	10/10/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Further Action Letter
Completed Date:	10/20/2011
Comments:	Soil remediation (excavation) completed at the site. Alameda County Department of Environmental Health is the lead oversight agency for the closure of the on-site former underground storage tanks,and is responsible for that portion of the site closure.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Juanita (Nina) Bacey
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	60001261
Site Code:	201875
Assembly:	15
Senate:	09
Special Program:	Voluntary Cleanup Program
Status:	No Further Action
Status Date:	10/20/2011
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.84028
Longitude:	-122.2891
APN:	NONE SPECIFIED

OWENS TRUCKING AND CONCRETE SA (Continued) **S101624445**

Past Use: EQUIPMENT/INSTRUMENT REPAIR, MANUFACTURING - OTHER
Potential COC: Arsenic, Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Vanadium and compounds, Zinc
Confirmed COC: Arsenic, Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Vanadium and compounds, Zinc, Arsenic, Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL, Vanadium and compounds, Zinc
Potential Description: OTH, SOIL
Alias Name: 201875
Alias Type: Project Code (Site Code)
Alias Name: 60001261
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 05/03/2010
Comments: This document has not been reviewed and approved by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/20/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 10/20/2011
Comments: Soil remediation (excavation) completed at the site. Alameda County Department of Environmental Health is the lead oversight agency for the closure of the on-site former underground storage tanks,and is responsible for that portion of the site closure.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AK162 **CHEVRON ASPHALT PLANT & TERMINAL** **SLIC** **S100932449**
SSE **1520 POWELL STREET** **Alameda County CS** **N/A**
1/2-1 **EMERYVILLE, CA 94608** **ENVIROSTOR**
0.679 mi.
3585 ft. **Site 1 of 2 in cluster AK**

Relative:
Lower

Actual:
12 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	12/13/1995
Global Id:	SLT2O07076
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002535
Latitude:	37.8396823558814
Longitude:	-122.291640043259
Case Type:	Cleanup Program Site
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Other Chlorinated Hydrocarbons, Tetrachloroethylene (PCE), Trichloroethylene (TCE), Vinyl chloride, Asphalt, Benzene, Gasoline
Site History:	The subject parcel is a former Chevron bulk asphalt plant terminal, included a lab and test facility for asphalt composition. A portion of the land was also leased by a solvent handler. Twenty wells have been installed, and VOCs, including TPHg, benzene, trans-1,2 DCE, cis-1,2 DCE, TCE, VC chloroform, and PAHs have been detected. Over 10,656 cubic yards have been excavated and disposed of offsite. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

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

SLIC REG 2:

Region:	2
Facility ID:	SLT2O07076
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

Alameda County CS:

Status:	Leak Confirmation
Record Id:	RO0002535
PE:	5502

CHEVRON ASPHALT PLANT & TERMINAL (Continued) **S100932449**

Status: Pollution Characterization
Record Id: RO0002535
PE: 5502

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 01290002
Site Code: 200224
Assembly: 15
Senate: 09
Special Program: * CERC2
Status: Refer: Other Agency
Status Date: 03/06/1996
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.83888
Longitude: -122.2916
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS, * HYDROCARBON SOLVENTS, Lead, Chromium VI
Confirmed COC: * HALOGENATED SOLVENTS, * HYDROCARBON SOLVENTS, Lead, Chromium VI, NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: AMERICAN BITUMALS AND ASPHALT; R.C. NASH
Alias Type: Alternate Name
Alias Name: CHEVRON EMERYVILLE TERMINAL
Alias Type: Alternate Name
Alias Name: CHEVRON U.S.A.
Alias Type: Alternate Name
Alias Name: 110002943343
Alias Type: EPA (FRS #)
Alias Name: 200224
Alias Type: Project Code (Site Code)
Alias Name: 01290002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/29/1988
Comments: PRELIM ASSESS DONE GRD WTR CONTMN . VERY LIMITED GRD WTR USE IN THE AREA. SITE INSP RECOMMENDED.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/23/1987

CHEVRON ASPHALT PLANT & TERMINAL (Continued) **S100932449**

Comments:	SITE SCREENING DONE RATIONALE FOR PA: DCE & VINYL CHLORDE DETECTED IN AN ONSITE WELL. RWQCB INACTIVE CASE.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	04/10/1987
Comments:	SITE SCREENING DONE NO FILE FOUND AT DHS.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	09/12/1991
Comments:	Chevron has investigated and attempted to remediate this site since 1985. 18 wells, 150 soil borings, and removal of 10,000 cubic yards have been completed but hot spots of DCE at 7,000 ppb,TCE at 130 ppb, and diesel fuel are still in the groundwater. Soil removal reduced the contaminants although they remain beneath the loading dock, lab building, and railroad. Pumping and treating was considered, but dismissed based on the time required. Consultant Mittlehauser wants to use the PEA process to get the site "signed off", but the scope of the problem requites more oversight. The County and the SFRWQCB have been overseeing the project, and should continue. DTSC will oversee it only if fees are paid.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AK163 **SOUTH BAY FRONT SITE B** **VCP** **S107737368**
SSE **1525-1535 POWELL ST & 5760-5770 SHELLMOUND ST** **ENVIROSTOR** **N/A**
1/2-1 **EMERYVILLE, CA 94608**
0.679 mi.
3585 ft. **Site 2 of 2 in cluster AK**

Relative:
Lower

Actual:
12 ft.

VCP:

Facility ID:	70000131
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3.0
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Juanita (Nina) Bacey
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201634
Assembly:	15
Senate:	09
Special Programs Code:	Polanco Redevelopment MOA

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Status:	Active
Status Date:	11/01/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.83811 / -122.2925
APN:	049 132100102, 049 132100104, 049 132100404, 049 132100500, 049-1321-001-02, 049-1321-001-04, 049-1321-003-02, 049-1321-004-04, 049-1321-005-00, 49-1321-3-2
Past Use:	MANUFACTURING - CHEMICALS
Potential COC:	30001, 30013, 30019, 30022, 30024, 30025, 30027, 30195, 30357
Confirmed COC:	30019-NO,30022,30024,30025,30027,30195,30357,30001,30013
Potential Description:	OTH, SOIL, SV
Alias Name:	Flower Outlet/ H.F. Robinson
Alias Type:	Alternate Name
Alias Name:	Site B
Alias Type:	Alternate Name
Alias Name:	049 132100102
Alias Type:	APN
Alias Name:	049 132100104
Alias Type:	APN
Alias Name:	049 132100404
Alias Type:	APN
Alias Name:	049 132100500
Alias Type:	APN
Alias Name:	049-1321-001-02
Alias Type:	APN
Alias Name:	049-1321-001-04
Alias Type:	APN
Alias Name:	049-1321-003-02
Alias Type:	APN
Alias Name:	049-1321-004-04
Alias Type:	APN
Alias Name:	049-1321-005-00
Alias Type:	APN
Alias Name:	49-1321-3-2
Alias Type:	APN
Alias Name:	110033615906
Alias Type:	EPA (FRS #)
Alias Name:	201634
Alias Type:	Project Code (Site Code)
Alias Name:	70000131
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	06/17/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/30/2009
Comments:	Schedule and Estimate Completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Document Type: Amendment - Order/Agreement
Completed Date: 03/13/2007
Comments: Environmental Oversight Agreement was amended for PDF sumbittal of documents.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 08/16/2011
Comments: additional injections and pH enhancer to be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/30/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/08/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 10/19/2011
Comments: .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/19/2011
Comments: injections completed 12/19; monitoring to be conducted 2/2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 11/16/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/14/2012
Comments: GW concentrations in the north area of the site are consistent with historical concentrations. In situ injections in the pilot study area appear to have influenced surrounding groundwater as well, and PCE and TCE concentrations appear to be decreasing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/08/2012
Comments: CVOC conc. are similar to historic conc. at some wells. Others have been influenced by in situ treatments during the pilot study.

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 06/18/2013
Comments: VOC concentrations reduced significantly. No further injections and monitored natural attentuation recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan Amendment
Completed Date: 06/24/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/09/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/09/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/11/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/08/2012
Comments: Injections completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 12/10/2012
Comments: Workplan to install gw monitoring wells and collect GW samples prior to in situ treatment (RAP amendment).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 11/19/2012
Comments: Notice to install GW monitoring wells on site.

Completed Area Name: PROJECT WIDE

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/27/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/19/2013
Comments: fieldwork to begin 7/29

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: 1535 Powell St - This document is uploaded as background information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/13/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/18/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 05/29/2012
Comments: Pilot study results indicate EVO was successfull in the remediation of primary CVOCs at the site. CVOC concentrations were reduced significantly and EVO is recommended for GW remediation of the entire Site.

Completed Area Name: PROJECT WIDE

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/04/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/01/2007
Comments: Approved workplan. Fieldwork includes (1) drilling boreholes at 45 locations and collecting soil samples at different depths; (2) Installing 10 monitoring wells and collecting grab groundwater samples; (3) Collecting soil gas samples at 11 locations and (4) collecting sub-slab soil gas samples at 10 locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/20/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 03/21/2008
Comments: Approval letter signed March 14, 2008; Includes soil excavation in saturated & unsaturated zones for metals, vocs, TPH, hydrogen sulfide, excavation dewatering to remove GW and potential separate phase product & excavation detwatering of GW in potential CVOC source areas. Also includes GW remediation for CVOCs via pump & treat using GW extractions wells and trenchs. Also, an LUC would be implemented to restrict site use (soil & GW).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Workplan
Completed Date: 04/06/2007
Comments: Workplan to screen potential remedial options to address contamination found on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/10/2008
Comments: RDIP consists of Phase I of RAW, soil excavation. Excavate saturated & unsaturated zones for metals, vocs, TPH, & hydrogen sulfide. Includes provisions for testing groundwater emissions prior to excavating in the saturated zone. Final draft addressed ground water toxicological issues. GW remediation to occur in Phase II & will be in a 2nd RDIP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/12/2007
Comments: City of Emeryville sent over copy of final version on 10/12/2007.

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/12/2007
Comments: City of Emeryville sent over copy of final version on 10/12/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/30/2009
Comments: Memo explaining excavations deeper than originally planned. Soil work conducted at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/14/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 06/10/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/13/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 05/03/2010
Comments: Projected indoor air concentrations are below CHSSLs. Risk assessment report approved with response to comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Workplan
Completed Date: 05/28/2010
Comments: Workplan details installation of GW monitoring wells. Field data collected will be used to complete the GW extracton potential effectiveness evaluation and in-situ GW remediation potential evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/25/2011
Comments: Injections went fine and have been completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/14/2010

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Comments: Data presented does not include all of the work that was to be done in the workplan and therefore does not discuss the results. When all work for the workplan is completed, all results will be discussed in a semi-annual report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 11/02/2010
Comments: Workplan approved with follow-up response letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/31/2010
Comments: GW monitoring completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 02/09/2011
Comments: GW monitoring plan approved with conditions. See approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/13/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/14/2004
Comments: Phase I report submitted for background information. Does not require DTSC approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Date: 09/26/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 03/14/2008
Comments: Notice of Determination and Statement of Findings documents signed March 14, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Polanco Agreement
Completed Date: 07/25/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/06/2010
Comments: Annual cost estimate for 2010/2011 fiscal year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/21/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Polanco Agreement
Completed Date: 03/10/2006
Comments: The Environmental Oversight Agreement has been signed by both parties.
Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Plan
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction
Future Due Date: 2014
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SOUTH BAY FRONT SITE B (Continued) **S107737368**

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3.0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Juanita (Nina) Bacey
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	70000131
Site Code:	201634
Assembly:	15
Senate:	09
Special Program:	Polanco Redevelopment MOA
Status:	Active
Status Date:	11/01/2005
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.83811
Longitude:	-122.2925
APN:	049 132100102, 049 132100104, 049 132100404, 049 132100500, 049-1321-001-02, 049-1321-001-04, 049-1321-003-02, 049-1321-004-04, 049-1321-005-00, 49-1321-3-2
Past Use:	MANUFACTURING - CHEMICALS
Potential COC:	Arsenic, Lead, Polynuclear aromatic hydrocarbons (PAHs, Tetrachloroethylene (PCE, TPH-diesel, TPH-gas, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, Mercury and compounds
Confirmed COC:	Arsenic, Lead, Polynuclear aromatic hydrocarbons (PAHs, Tetrachloroethylene (PCE, TPH-diesel, TPH-gas, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, Mercury and compounds, 30019-NO, Tetrachloroethylene (PCE, TPH-diesel, TPH-gas, Trichloroethylene (TCE, 1,2-Dichloroethylene (cis, Mercury and compounds, Arsenic, Lead
Potential Description:	OTH, SOIL, SV
Alias Name:	Flower Outlet/ H.F. Robinson
Alias Type:	Alternate Name
Alias Name:	Site B
Alias Type:	Alternate Name
Alias Name:	049 132100102
Alias Type:	APN
Alias Name:	049 132100104
Alias Type:	APN
Alias Name:	049 132100404
Alias Type:	APN
Alias Name:	049 132100500
Alias Type:	APN
Alias Name:	049-1321-001-02
Alias Type:	APN
Alias Name:	049-1321-001-04
Alias Type:	APN
Alias Name:	049-1321-003-02
Alias Type:	APN
Alias Name:	049-1321-004-04
Alias Type:	APN
Alias Name:	049-1321-005-00
Alias Type:	APN

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Alias Name: 49-1321-3-2
Alias Type: APN
Alias Name: 110033615906
Alias Type: EPA (FRS #)
Alias Name: 201634
Alias Type: Project Code (Site Code)
Alias Name: 70000131
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 06/17/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/30/2009
Comments: Schedule and Estimate Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 03/13/2007
Comments: Environmental Oversight Agreement was amended for PDF sumbittal of documents.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 08/16/2011
Comments: additional injections and pH enhancer to be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/30/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/08/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 10/19/2011
Comments: .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/19/2011
Comments: injections completed 12/19; monitoring to be conducted 2/2012

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 11/16/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/14/2012
Comments: GW concentrations in the north area of the site are consistent with historical concentrations. In situ injections in the pilot study area appear to have influenced surrounding groundwater as well, and PCE and TCE concentrations appear to be decreasing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/08/2012
Comments: CVOC conc. are similar to historic conc. at some wells. Others have been influenced by in situ treatments during the pilot study.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 06/18/2013
Comments: VOC concentrations reduced significantly. No further injections and monitored natural attentuation recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan Amendment
Completed Date: 06/24/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 05/09/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/09/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/11/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/08/2012

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Comments: Injections completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 10/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 12/10/2012
Comments: Workplan to install gw monitoring wells and collect GW samples prior to in situ treatment (RAP amendment).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 11/19/2012
Comments: Notice to install GW monitoring wells on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/27/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/19/2013
Comments: fieldwork to begin 7/29

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: 1535 Powell St - This document is uploaded as background information.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/13/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/18/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 05/29/2012
Comments: Pilot study results indicate EVO was successfull in the remediation of primary CVOCs at the site. CVOC concentrations were reduced significantly and EVO is recommended for GW remediation of the entire Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/04/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/01/2007
Comments: Approved workplan. Fieldwork includes (1) drilling boreholes at 45 locations and collecting soil samples at different depths; (2) Installing 10 monitoring wells and collecting grab groundwater samples; (3) Collecting soil gas samples at 11 locations and (4) collecting sub-slab soil gas samples at 10 locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/20/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 03/21/2008
Comments: Approval letter signed March 14, 2008; Includes soil excavation in saturated & unsaturated zones for metals, vocs, TPH, hydrogen sulfide, excavation dewatering to remove GW and potential separate phase product & excavation detwatering of GW in potential CVOC source areas. Also includes GW remediation for CVOCs via pump & treat using GW extractions wells and trenchs. Also, an LUC would be implemented to restrict site use (soil & GW).

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

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Document Type: Feasibility Study Workplan
Completed Date: 04/06/2007
Comments: Workplan to screen potential remedial options to address contamination found on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/10/2008
Comments: RDIP consists of Phase I of RAW, soil excavation. Excavate saturated & unsaturated zones for metals, vocs, TPH, & hydrogen sulfide. Includes provisions for testing groundwater emissions prior to excavating in the saturated zone. Final draft addressed ground water toxicological issues. GW remediation to occur in Phase II & will be in a 2nd RDIP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/12/2007
Comments: City of Emeryville sent over copy of final version on 10/12/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/12/2007
Comments: City of Emeryville sent over copy of final version on 10/12/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/30/2009
Comments: Memo explaining excavations deeper than originally planned. Soil work conducted at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/14/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 06/10/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/13/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 05/03/2010

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Comments:	Projected indoor air concentrations are below CHSSLs. Risk assessment report approved with response to comments.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Treatability Study Workplan
Completed Date:	05/28/2010
Comments:	Workplan details installation of GW monitoring wells. Field data collected will be used to complete the GW extracton potential effectiveness evaluation and in-situ GW remediation potential evaluation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	01/25/2011
Comments:	Injections went fine and have been completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	09/14/2010
Comments:	Data presented does not include all of the work that was to be done in the workplan and therefore does not discuss the results. When all work for the workplan is completed, all results will be discussed in a semi-annual report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	11/02/2010
Comments:	Workplan approved with follow-up response letter.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	10/31/2010
Comments:	GW monitoring completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Plan
Completed Date:	02/09/2011
Comments:	GW monitoring plan approved with conditions. See approval letter.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	07/13/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	07/14/2004
Comments:	Phase I report submitted for background information. Does not require DTSC approval.

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/26/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 03/14/2008
Comments: Notice of Determination and Statement of Findings documents signed March 14, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Polanco Agreement
Completed Date: 07/25/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/06/2010
Comments: Annual cost estimate for 2010/2011 fiscal year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/21/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Polanco Agreement
Completed Date: 03/10/2006
Comments: The Environmental Oversight Agreement has been signed by both parties. Not reported

Future Area Name: PROJECT WIDE

SOUTH BAY FRONT SITE B (Continued) **S107737368**

Future Sub Area Name:	Not reported
Future Document Type:	Operations and Maintenance Plan
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2014
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2015
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Land Use Restriction
Future Due Date:	2014
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

164
South
1/2-1
0.683 mi.
3604 ft.

MOBIL SERVICE STATION #10 LTV **Notify 65** **S100179045**
1700 POWELL STREET **N/A**
EMERYVILLE, CA 92633

Relative:
Lower

Actual:
11 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92633

165
SSE
1/2-1
0.753 mi.
3974 ft.

MARCHANT/WHITNEY **VCP** **S111464696**
5679 HORTON STREET **ENVIROSTOR** **N/A**
EMERYVILLE, CA 94608

Relative:
Lower

Actual:
15 ft.

VCP:

Facility ID:	60001628
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.75
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Juanita (Nina) Bacey
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201929
Assembly:	15

MARCHANT/WHITNEY (Continued) **S111464696**

Senate:	09
Special Programs Code:	Not reported
Status:	Active
Status Date:	02/07/2012
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.83741 / -122.2910
APN:	049 155200100, 49-1319-1-20, 49-1552-1
Past Use:	MANUFACTURING - INDUSTRIAL MACHINERY, MANUFACTURING - OTHER
Potential COC:	30013, 30027, 30028, 30024, 30025, 3002502
Confirmed COC:	30013-NO,30027,30028,, ,30024-NO,30025-NO,3002502-NO
Potential Description:	OTH, SOIL, SV
Alias Name:	049 155200100
Alias Type:	APN
Alias Name:	49-1319-1-20
Alias Type:	APN
Alias Name:	49-1552-1
Alias Type:	APN
Alias Name:	201929
Alias Type:	Project Code (Site Code)
Alias Name:	60001628
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	03/18/2013
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	02/25/2013
Comments:	Pilot study to test dual-phase (groundwater and soil gas) remediation at the site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	01/31/2012
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/14/2013
Comments:	DPE was effective in removing approx. 11 lbs of TCE during the 5-day pilot study. DPE will be retained as a potential remedial technology for futher evaluation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	09/11/2012
Comments:	Not reported

Completed Area Name:	PROJECT WIDE

MARCHANT/WHITNEY (Continued) **S111464696**

Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Workplan
Completed Date: 03/04/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/03/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 02/26/2013
Comments: work to start 3/13 for treatability study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/14/2012
Comments: VCA for DTSC oversite of soil and groundwater investigation and remediation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 11/30/2012
Comments: workplan to collect soil samples for excavation limits delineation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 11/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/02/2013
Comments: workplan to conduct soil gas and indoor air monitoring in the warehouse

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 08/24/2012
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported

MARCHANT/WHITNEY (Continued) **S111464696**

Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	11/30/2012
Schedule Revised Date:	01/23/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	10/08/2012
Schedule Revised Date:	01/22/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Removal Action Workplan
Schedule Due Date:	04/01/2013
Schedule Revised Date:	02/17/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Removal Action Workplan
Schedule Due Date:	06/30/2014
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Action Completion Report
Schedule Due Date:	07/30/2013
Schedule Revised Date:	11/11/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Investigation Report
Schedule Due Date:	05/21/2014
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	CEQA - Notice of Exemption
Schedule Due Date:	04/01/2013
Schedule Revised Date:	02/12/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	05/12/2014
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	05/19/2014
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.75
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Juanita (Nina) Bacey
Supervisor:	Karen Toth

MARCHANT/WHITNEY (Continued) **S111464696**

Division Branch: Cleanup Berkeley
Facility ID: 60001628
Site Code: 201929
Assembly: 15
Senate: 09
Special Program: Not reported
Status: Active
Status Date: 02/07/2012
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.83741
Longitude: -122.2910
APN: 049 155200100, 49-1319-1-20, 49-1552-1
Past Use: MANUFACTURING - INDUSTRIAL MACHINERY, MANUFACTURING - OTHER
Potential COC: Lead, Trichloroethylene (TCE, Vinyl chloride, TPH-diesel, TPH-gas, TPH-MOTOR OIL
Confirmed COC: Lead, Trichloroethylene (TCE, Vinyl chloride, TPH-diesel, TPH-gas, TPH-MOTOR OIL, 30013-NO, Trichloroethylene (TCE, Vinyl chloride, , 30024-NO, 30024-NO, 30025-NO, 3002502-NO
Potential Description: OTH, SOIL, SV
Alias Name: 049 155200100
Alias Type: APN
Alias Name: 49-1319-1-20
Alias Type: APN
Alias Name: 49-1552-1
Alias Type: APN
Alias Name: 201929
Alias Type: Project Code (Site Code)
Alias Name: 60001628
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/18/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 02/25/2013
Comments: Pilot study to test dual-phase (groundwater and soil gas) remediation at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 01/31/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/14/2013
Comments: DPE was effective in removing approx. 11 lbs of TCE during the 5-day pilot study. DPE will be retained as a potential remedial technology

MARCHANT/WHITNEY (Continued) **S111464696**

for futher evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/11/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Workplan
Completed Date: 03/04/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/03/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 02/26/2013
Comments: work to start 3/13 for treatability study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/14/2012
Comments: VCA for DTSC oversite of soil and groundwater investigation and remediation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 11/30/2012
Comments: workplan to collect soil samples for excavation limits delineation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 11/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/02/2013
Comments: workplan to conduct soil gas and indoor air monitoring in the warehouse

MARCHANT/WHITNEY (Continued) **S111464696**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Community Profile
Completed Date:	08/24/2012
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	11/30/2012
Schedule Revised Date:	01/23/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	10/08/2012
Schedule Revised Date:	01/22/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Removal Action Workplan
Schedule Due Date:	04/01/2013
Schedule Revised Date:	02/17/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Removal Action Workplan
Schedule Due Date:	06/30/2014
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Action Completion Report
Schedule Due Date:	07/30/2013
Schedule Revised Date:	11/11/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Investigation Report
Schedule Due Date:	05/21/2014
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	CEQA - Notice of Exemption
Schedule Due Date:	04/01/2013
Schedule Revised Date:	02/12/2014
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	05/12/2014
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Public Notice
Schedule Due Date:	05/19/2014
Schedule Revised Date:	Not reported

166
SE
1/2-1
0.753 mi.
3977 ft.

PARKSIDE EMERYVILLE
5780 HOLLIS ST. & 1255 POWELL STREET
EMERYVILLE, CA 94608

VCP **S111752592**
ENVIROSTOR **N/A**

Relative:
Higher

Actual:
26 ft.

VCP:

Facility ID:	60001643
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.35
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Juanita (Nina) Bacey
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201932
Assembly:	15
Senate:	09
Special Programs Code:	Not reported
Status:	Active
Status Date:	03/28/2012
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.83933 / -122.2882
APN:	049 131700101, 049-1317-001-01
Past Use:	NONE
Potential COC:	40001, 30013, 30024
Confirmed COC:	30013,30024,40001
Potential Description:	OTH, SOIL
Alias Name:	049 131700101
Alias Type:	APN
Alias Name:	049-1317-001-01
Alias Type:	APN
Alias Name:	T10000004505
Alias Type:	GeoTracker Global ID
Alias Name:	201932
Alias Type:	Project Code (Site Code)
Alias Name:	60001643
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	04/13/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Application
Completed Date:	03/29/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report

PARKSIDE EMERYVILLE (Continued) **S111752592**

Completed Date: 02/08/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/21/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/30/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/22/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/16/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Preliminary Endangerment Assessment Report
Schedule Due Date: 05/31/2014
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 2.35
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Juanita (Nina) Bacey
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 60001643
Site Code: 201932
Assembly: 15
Senate: 09

PARKSIDE EMERYVILLE (Continued) **S111752592**

Special Program: Not reported
Status: Active
Status Date: 03/28/2012
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.83933
Longitude: -122.2882
APN: 049 131700101, 049-1317-001-01
Past Use: NONE
Potential COC: Asbestos Containing Materials (ACM, Lead, TPH-diesel
Confirmed COC: Asbestos Containing Materials (ACM, Lead, TPH-diesel, Lead, TPH-diesel, Asbestos Containing Materials (ACM
Potential Description: OTH, SOIL
Alias Name: 049 131700101
Alias Type: APN
Alias Name: 049-1317-001-01
Alias Type: APN
Alias Name: T10000004505
Alias Type: GeoTracker Global ID
Alias Name: 201932
Alias Type: Project Code (Site Code)
Alias Name: 60001643
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/13/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 03/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 02/08/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/21/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/17/2006
Comments: Not reported

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

PARKSIDE EMERYVILLE (Continued) **S111752592**

Completed Document Type:	Site Characterization Report
Completed Date:	10/30/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	04/22/1998
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	04/16/2006
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Preliminary Endangerment Assessment Report
Schedule Due Date:	05/31/2014
Schedule Revised Date:	Not reported

167
SSW
1/2-1
0.760 mi.
4014 ft.

WATERGATE OFFICE TOWERS **ENVIROSTOR** **S108484730**
1900-2200 POWELL STREET **N/A**
EMERYVILLE, CA 94608

Relative:
Lower

Actual:
8 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP, ALAMEDA COUNTY
Lead Agency:	ALAMEDA COUNTY
Program Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	60000593
Site Code:	201915
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	03/05/2007
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.83853
Longitude:	-122.2998
APN:	49-1495-8
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED, NONE SPECIFIED

WATERGATE OFFICE TOWERS (Continued) **S108484730**

Potential Description: NONE SPECIFIED
Alias Name: 49-1495-8
Alias Type: APN
Alias Name: T06019750804
Alias Type: GeoTracker Global ID
Alias Name: 201915
Alias Type: Project Code (Site Code)
Alias Name: 60000593
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/05/2007
Comments: report not evealuated by DTSC - Submitted to Alameda County for review
Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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168 South 1/2-1 0.767 mi. 4050 ft.

Relative: Lower

Actual: 12 ft.

RYDER/PIE NATIONWIDE INC **HIST CORTESE** **S102008229**
5500 EASTSHORE HWY **LUST** **N/A**
EMERYVILLE, CA 94608 **SLIC**
Alameda County CS
SWEEPS UST
RESPONSE
ENVIROSTOR

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01470001

Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1176

LUST:
Region: STATE
Global Id: T0600101083
Latitude: 37.845
Longitude: -122.297
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/27/2001
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: SH
Local Agency: ALAMEDA COUNTY LOP

RYDER/PIE NATIONWIDE INC (Continued) **S102008229**

RB Case Number: 01-1176
LOC Case Number: RO0000069
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

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

Contact:
Global Id: T0600101083
Contact Type: Regional Board Caseworker
Contact Name: Cherie McCaulou
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: cmccaulou@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0600101083
Contact Type: Local Agency Caseworker
Contact Name: SUSAN HUGO
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0600101083
Status: Completed - Case Closed
Status Date: 09/27/2001

Global Id: T0600101083
Status: Open - Case Begin Date
Status Date: 08/14/1986

Regulatory Activities:
Global Id: T0600101083
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0600101083
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: 01-1176
Facility Status: Case Closed
Case Number: 1184
How Discovered: Tank Closure
Leak Cause: Structure Failure

RYDER/PIE NATIONWIDE INC (Continued) **S102008229**

Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 9/2/1986
Preliminary Site Assesment Began: 3/4/1987
Pollution Characterization Began: 4/28/1988
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: 5/11/1989
Date Post Remedial Action Monitoring Began: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/03/2009
Global Id: SLT2O06268
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.8380898384385
Longitude: -122.296596559525
Case Type: Cleanup Program Site
Case Worker: UUU
Local Agency: Not reported
RB Case Number: SLT2O06268
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

Alameda County CS:
Status: Case Closed
Record Id: RO0000069
PE: 5602

SWEEPS UST:
Status: Active
Comp Number: 35998
Number: 9
Board Of Equalization: 44-000368
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 1-657
Swrcb Tank Id: 01-000-035998-000001
Actv Date: 07-01-85
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: LEADED
Number Of Tanks: 3

Status: Active
Comp Number: 35998
Number: 9

RYDER/PIE NATIONWIDE INC (Continued) **S102008229**

Board Of Equalization: 44-000368
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 2-657
Swrcb Tank Id: 01-000-035998-000002
Actv Date: 07-01-85
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 35998
Number: 9
Board Of Equalization: 44-000368
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 3-657
Swrcb Tank Id: 01-000-035998-000003
Actv Date: 07-01-85
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

RESPONSE:
Facility ID: 01470001
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: Not reported
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, RWQCB 2 - San Francisco Bay, ALAMEDA COUNTY
Lead Agency: ALAMEDA COUNTY
Lead Agency Description: ALAMEDA COUNTY
Project Manager: Lynn Nakashima
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Site Code: Not reported
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 14
Senate: 09
Special Program Status: * CERC2
Status: Refer: Other Agency
Status Date: 05/10/1994
Restricted Use: NO
Funding: Responsible Party
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * CONTAMINATED SOIL, * WASTE OIL & MIXED OIL, * UNSPECIFIED ORGANIC

RYDER/PIE NATIONWIDE INC (Continued) **S102008229**

LIQUID MIXTURE
Confirmed COC: * CONTAMINATED SOIL, * WASTE OIL & MIXED OIL, * UNSPECIFIED ORGANIC LIQUID MIXTURE, NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: PIE/NATIONWIDE TRUCK FACILITY
Alias Type: Alternate Name
Alias Name: 110002801059
Alias Type: EPA (FRS #)
Alias Name: 110033612142
Alias Type: EPA (FRS #)
Alias Name: CAD982032369
Alias Type: HWTS Identification Code
Alias Name: 01470001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/30/1988
Comments: Preliminary Assessment Done: Eight underground tanks removed. One diesel and one waste oil tank had leaked. Gas tank spill had occurred in the '70s. On-site aeration of 7000 cubic yards of soil. Shopping mall built on site. Additional contamination found in the southern part of the site. Hazardous waste contamination is migrating.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/24/1987
Comments: Site Screening Done: Two 5000-gallon diesel tanks and a waste oil tank removed by 11/20/86. Another 5000-gallon tank was removed in the '70s. Removal of 2600 cubic yards of soil. On site soil undergoing aerobic degradation. Recommend Preliminary Assessment due to need for information on ground water contamination.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 2 - San Francisco Bay, ALAMEDA COUNTY
Lead Agency: ALAMEDA COUNTY
Program Manager: Lynn Nakashima
Supervisor: Barbara Cook

RYDER/PIE NATIONWIDE INC (Continued) **S102008229**

Division Branch: Cleanup Berkeley
Facility ID: 01470001
Site Code: Not reported
Assembly: 14
Senate: 09
Special Program: * CERC2
Status: Refer: Other Agency
Status Date: 05/10/1994
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * CONTAMINATED SOIL, * WASTE OIL & MIXED OIL, * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC: * CONTAMINATED SOIL, * WASTE OIL & MIXED OIL, * UNSPECIFIED ORGANIC LIQUID MIXTURE, NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CYPRESS RECONSTRUCTION
Alias Type: Alternate Name
Alias Name: PIE/NATIONWIDE TRUCK FACILITY
Alias Type: Alternate Name
Alias Name: 110002801059
Alias Type: EPA (FRS #)
Alias Name: 110033612142
Alias Type: EPA (FRS #)
Alias Name: CAD982032369
Alias Type: HWTS Identification Code
Alias Name: 01470001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/30/1988
Comments: Preliminary Assessment Done: Eight underground tanks removed. One diesel and one waste oil tank had leaked. Gas tank spill had occurred in the '70s. On-site aeration of 7000 cubic yards of soil. Shopping mall built on site. Additional contamination found in the southern part of the site. Hazardous waste contamination is migrating.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/24/1987
Comments: Site Screening Done: Two 5000-gallon diesel tanks and a waste oil tank removed by 11/20/86. Another 5000-gallon tank was removed in the '70s. Removal of 2600 cubic yards of soil. On site soil undergoing aerobic degradation. Recommend Preliminary Assessment due to need for information on ground water contamination.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

RYDER/PIE NATIONWIDE INC (Continued) **S102008229**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

169
SSE
1/2-1
0.771 mi.
4072 ft.

INDUSTRIAL HARD CHROME **SLIC** **S105557579**
5701 HOLLIS STREET **RESPONSE** **N/A**
EMERYVILLE, CA 94608 **ENVIROSTOR**

Relative:
Higher

Actual:
20 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	10/01/2006
Global Id:	SL0600191921
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.838585
Longitude:	-122.28914
Case Type:	Cleanup Program Site
Case Worker:	MEJ
Local Agency:	Not reported
RB Case Number:	01S0602
File Location:	State Records Center
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

RESPONSE:

Facility ID:	60001845
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.15
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 2 - San Francisco Bay
Lead Agency:	NONE SPECIFIED
Lead Agency Description:	Not reported
Project Manager:	Karen Toth
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	15
Senate:	09
Special Program Status:	Not reported
Status:	Refer: 1248 Local Agency
Status Date:	09/05/2012
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.83862
Longitude:	-122.2891
APN:	NONE SPECIFIED
Past Use:	NONE

INDUSTRIAL HARD CHROME (Continued) **S105557579**

Potential COC:	Arsenic, Lead, Silver, TPH-diesel, TPH-MOTOR OIL, Antimony and compounds, Chromium VI
Confirmed COC:	Arsenic, Lead, Silver, TPH-diesel, TPH-MOTOR OIL, Antimony and compounds, Chromium VI, Arsenic, Lead, TPH-diesel, Antimony and compounds, Chromium VI, TPH-MOTOR OIL, Silver
Potential Description:	SOIL
Alias Name:	60001845
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/01/2012
Comments:	The site cleanup plan requires removal of soil contamiated with TPH diesel, TPH motor oil, lead, hexavalent chromium, antimony, silver and arsenic to unrestricted standards

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/16/2013
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.48
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 2 - San Francisco Bay
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Not reported
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	01340122
Site Code:	201417
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Refer: RWQCB
Status Date:	09/15/2006
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.83874
Longitude:	-122.2891
APN:	49-1318-3

INDUSTRIAL HARD CHROME (Continued) **S105557579**

Past Use: METAL PLATING - CHROME
Potential COC: Arsenic, Trichloroethylene (TCE, Chromium III, Chromium VI
Confirmed COC: Arsenic, Trichloroethylene (TCE, Chromium III, Chromium VI, Trichloroethylene (TCE, Chromium III, Chromium VI, Arsenic
Potential Description: OTH, SOIL
Alias Name: CALIFORNIA STATE FOOD & DRUG LABORATORY
Alias Type: Alternate Name
Alias Name: DEPARTMENT OF HEALTH SERVICES
Alias Type: Alternate Name
Alias Name: INDUSTRIAL HARD CHROME
Alias Type: Alternate Name
Alias Name: 49-1318-3
Alias Type: APN
Alias Name: SL0600191921
Alias Type: GeoTracker Global ID
Alias Name: 201417
Alias Type: Project Code (Site Code)
Alias Name: 01340122
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/15/2006
Comments: Site screening recommended referral to the Regional Water Quality Control Board, with continued monitoring to ensure that hot spots are removed and a deed restriction recorded.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/05/2006
Comments: NFCRA drafted to address costs related to a 2001 VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: IC Public Advisory
Completed Date: 09/20/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.15
NPL: NO
Regulatory Agencies: SMBRP, RWQCB 2 - San Francisco Bay
Lead Agency: NONE SPECIFIED
Program Manager: Karen Toth

INDUSTRIAL HARD CHROME (Continued) **S105557579**

Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	60001845
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Refer: 1248 Local Agency
Status Date:	09/05/2012
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.83862
Longitude:	-122.2891
APN:	NONE SPECIFIED
Past Use:	NONE
Potential COC:	Arsenic, Trichloroethylene (TCE, Chromium III, Chromium VI, Trichloroethylene (TCE, Chromium III, Chromium VI, Arsenic, Arsenic, Lead, Silver, TPH-diesel, TPH-MOTOR OIL, Antimony and compounds, Chromium VI
Confirmed COC:	Arsenic, Trichloroethylene (TCE, Chromium III, Chromium VI, Trichloroethylene (TCE, Chromium III, Chromium VI, Arsenic, Arsenic, Lead, Silver, TPH-diesel, TPH-MOTOR OIL, Antimony and compounds, Chromium VI, Arsenic, Lead, TPH-diesel, Antimony and compounds, Chromium VI, TPH-MOTOR OIL, Silver
Potential Description:	SOIL
Alias Name:	60001845
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	10/01/2012
Comments:	The site cleanup plan requires removal of soil contamiated with TPH diesel, TPH motor oil, lead, hexavalent chromium, antimony, silver and arsenic to unrestricted standards

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/16/2013
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

170 SSE 1/2-1 0.820 mi. 4327 ft.

HORTON LANDING PARK
STANFORD AVENUE & HORTON STREET
EMERYVILLE, CA 94608

VCP **S111022975**
ENVIROSTOR **N/A**

Relative: Lower

Actual: 16 ft.

VCP:

Facility ID:	60001477
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.2
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Karen Toth
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Programs Code:	Not reported
Status:	Refer: Other Agency
Status Date:	05/26/2010
Restricted Use:	NO
Funding:	EPA Grant
Lat/Long:	37.83654 / -122.2910
APN:	049 104103710
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	30001, 30013, 30018, 30024, 30207
Confirmed COC:	30001,30013,30024,30207,30018
Potential Description:	SOIL
Alias Name:	049 104103710
Alias Type:	APN
Alias Name:	60001477
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	05/26/2010
Comments:	Contamination is proposed to be capped in place and deed restricted
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ENVIROSTOR:

Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.2

HORTON LANDING PARK (Continued) **S111022975**

NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Karen Toth
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Facility ID:	60001477
Site Code:	Not reported
Assembly:	15
Senate:	09
Special Program:	Not reported
Status:	Refer: Other Agency
Status Date:	05/26/2010
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	37.83654
Longitude:	-122.2910
APN:	049 104103710
Past Use:	RAILROAD RIGHT OF WAY
Potential COC:	Arsenic, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Dieldrin
Confirmed COC:	Arsenic, Lead, Polychlorinated biphenyls (PCBs, TPH-diesel, Dieldrin, Arsenic, Lead, TPH-diesel, Dieldrin, Polychlorinated biphenyls (PCBs
Potential Description:	SOIL
Alias Name:	049 104103710
Alias Type:	APN
Alias Name:	60001477
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	05/26/2010
Comments:	Contamination is proposed to be capped in place and deed restricted
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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171 South 1/2-1 0.834 mi. 4403 ft.

SOUTH BAYFRONT PROJECT **DEED S103393756**
4650, 5500, & 5600 SHELLMOUND STREET **VCP N/A**
EMERYVILLE, CA 94608 **ENVIROSTOR**

Relative: Lower

Actual: 9 ft.

DEED:

Area:	PROJECT WIDE
Sub Area:	Not reported
Site Type:	VOLUNTARY CLEANUP
Status:	CERTIFIED / OPERATION & MAINTENANCE

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Deed Date(s): 07/26/2000
EDR Link ID: 1890019

VCP:

Facility ID:	01890019
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	DAY, ELD, HOS, MON, GW, NOWN, EXT, SCH, FOOD, COV
Acres:	22.77
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Tom Price
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200954
Assembly:	15
Senate:	09
Special Programs Code:	Polanco Redevelopment MOA
Status:	Certified / Operation & Maintenance
Status Date:	08/22/2000
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.83472 / -122.2927
APN:	049 103800900, 049 103801700, 049 103801800, 049 103900800, 049 155004800, 049 155104900, 049-1038-001-1, 049-1038-001-4, 049-1038-002, 049-1038-003, 049-1038-006-2, 049-1038-007, 049-1038-008, 049-1516-007-2
Past Use:	PAINT MANUFACTURING, MANUFACTURING - PESTICIDES, VEHICLE MAINTENANCE
Potential COC:	30001, 30013, 30027, 30153, 30156
Confirmed COC:	30027,30153,30156,30001,30013
Potential Description:	OTH, SOIL, SV
Alias Name:	Bay Street
Alias Type:	Alternate Name
Alias Name:	ELEMENTIS PIGMENTS
Alias Type:	Alternate Name
Alias Name:	HARCROS PIGMENTS
Alias Type:	Alternate Name
Alias Name:	MCKINLEY PROPERTY
Alias Type:	Alternate Name
Alias Name:	PFIZER
Alias Type:	Alternate Name
Alias Name:	SEPULVEDA PROPERTY
Alias Type:	Alternate Name
Alias Name:	SHERWIN WILIAMS - SHELLMOUND STREET
Alias Type:	Alternate Name
Alias Name:	049 103800900
Alias Type:	APN
Alias Name:	049 103801700
Alias Type:	APN
Alias Name:	049 103801800
Alias Type:	APN
Alias Name:	049 103900800
Alias Type:	APN
Alias Name:	049 155004800
Alias Type:	APN

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Alias Name:	049 155104900
Alias Type:	APN
Alias Name:	049-1038-001-1
Alias Type:	APN
Alias Name:	049-1038-001-4
Alias Type:	APN
Alias Name:	049-1038-002
Alias Type:	APN
Alias Name:	049-1038-003
Alias Type:	APN
Alias Name:	049-1038-006-2
Alias Type:	APN
Alias Name:	049-1038-007
Alias Type:	APN
Alias Name:	049-1038-008
Alias Type:	APN
Alias Name:	049-1516-007-2
Alias Type:	APN
Alias Name:	110033615915
Alias Type:	EPA (FRS #)
Alias Name:	T0600101074
Alias Type:	GeoTracker Global ID
Alias Name:	T0600102302
Alias Type:	GeoTracker Global ID
Alias Name:	201087
Alias Type:	Site Code - Historical
Alias Name:	200954
Alias Type:	Project Code (Site Code)
Alias Name:	01280006
Alias Type:	Envirostor ID Number
Alias Name:	01890019
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	10/18/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	09/15/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	03/13/2007
Comments:	Oversight and Consultation Agreement was amended for PDF submittal of documents.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	07/26/2000
Comments:	Signed O&M Agreement which required that the capped (building

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

founddations and paving) for the site be maintained. Additionally, it required groundwater monitoring. Recorded Deed Restriction prohibiting residential use on the lower floors and recognizing that the site will be primarily a commerical complex.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 05/12/1999
Comments: A Notice of Determination was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/26/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 02/04/2010
Comments: Cracks were observed in the parking areas, streets or sidewalks, but were minor.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/22/2000
Comments: Certified Site. The property has been developed into a large commercial complex, with residential units occupying the upper floors. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/03/2007
Comments: The surface area of cap appeared in good condition. There was no evidence of any activities prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/20/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/04/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/22/2011
Comments: Not reported

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/20/2012
Comments: Not reported

Completed Area Name: Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 06/05/2013
Comments: The project is related to construction of an elevator at the Barnes and Noble Bookstore. Included are the engineering drawings, soil management plan, and health and safety plans.

Completed Area Name: Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/02/2013
Comments: The fieldwork for construction of the elevator is completed.

Completed Area Name: Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 09/03/2013
Comments: Not reported

Completed Area Name: Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 09/03/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/23/2008
Comments: Upon observing the current site conditions in all portions of the site except for block 3 or onorthern parcelo, DTSC concludes that they remain protective of human health and the environment. Impacted soil remains under the concrete surface and asphalt surfaces, which remain undisturbed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2011
Comments: Estimate of DTSC costs to provide regulatory oversight from 7/1/2011 to 6/30/2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/22/2011
Comments: Demand Letter #3

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

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2010
Comments: The cost estimate for DTSC's oversight for the fiscal year 2010-2011 it $10,230.00.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 05/18/2011
Comments: Demand Letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 06/16/2011
Comments: Demand Letter #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/23/2009
Comments: Cost estimate for the 2009-2010 fiscal year (through 6/30/2010).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/03/2011
Comments: Close out memo for old site code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/24/2012
Comments: The cost estimate covers anticipated regulatory oversight expenses from 7/1/2012 to 6/30/2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/14/2013
Comments: Estimate of regulatory oversight costs by DTSC for the 2013-14 fiscal year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/08/2009
Comments: Section 6.3 of that report indicated the potential for indoor air in a specific area of the site. In response to those concerns, investigations were conducted and the following reports were generated: 1.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 07/26/2000
Comments: Approved O&M Plan

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 03/01/1999
Comments: Approved RIFS. Environmental investigation found significant soil and groundwater contamination primarily in the area of the former pesticide facility, which makes up the northern portion of the Shellmound properties. Soils in the northern area of the Shellmound Properties detected arsenic, DDT residuals, other miscellaneous organic compounds, petroleum hydrocarbons, and hydrogen sulfides. Shallow groundwater in this area also detected elevated concentrations of arsenic. Soil invetigation at the former Elementis Pigment site detected limited areas of metal (lead and zinc) contamination. No significant groundwater impacts were identified in this area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/27/1999
Comments: Approved Remedial Design for capping.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/08/2000
Comments: Completed Remedial Action. Approximately 28,600 tons of soils were excavated and disposed at approved landfill. Approximately 535,000 gallons of water were encountered during excavation. Of this total, 385,000 gallons of water were treated and discharged under permit into EBMUD Sanitary Sewer System and 250,000 gallons of water were hauled off-site and disposed at approved treatment facility. The property was backfilled with clean soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 05/12/1999
Comments: Approved RAP requiring: 1) excavation of contaminated soils and groundwater and replacement with clean fill, 2) recordation of a deed restriction, and 3) establishment of a risk management plan (O&M Plan).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/18/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/13/2007
Comments: Approved the report.

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

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Document Type: Operations and Maintenance Report
Completed Date: 12/19/2005
Comments: DTSC completed reviewing the GW Monitoring report and had no comments.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/22/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/24/2007
Comments: Continue with semi-annual GW monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/25/2004
Comments: No repairs needed at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/05/2005
Comments: No repairs needed for the cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/23/2007
Comments: No problems noted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/26/2003
Comments: Continue with GW monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/16/2003
Comments: Monitoring program will consist of quarterly sampling for the first
year, and semi-annual after the completion of first year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/07/2004
Comments: Continue quarterly groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Date: 03/21/2005
Comments: Continue with groundwater monitoring. Next sampling event will occur in April 2005. Based upon the consistent results of the first year of monitoring, monitoring frequency been moved to semi-annual for 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/16/2007
Comments: No problems noted in the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/27/2008
Comments: Letter of Completion

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/10/2008
Comments: Report indentified only minor cracks in cap and no significant erosion of lanscaped areas.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/17/2009
Comments: Annual inspection noted minor cracks. No action is necessary at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/02/2008
Comments: Wherever present, all contaminant concentrations remain within decaying trends except for those found in well EBS1. TCE concentrations in EBS1 are increasing and have more than doubled since the last sampling on 10/11/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/04/2009
Comments: DTSC had no comments on the report, groundwater is within historical ranges.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/15/2009
Comments: The public notice was posted in three locations in town where we post all of out official City/Agency notices on May 15, 2009. Also, the notice was mailed to all the businesses/residents/property owners that are on the mailing list I sent you on May 18, 2009.

Completed Area Name: PROJECT WIDE

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 08/05/2009
Comments: Groundwater concentrations remain within historic ranges.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 01/28/2010
Comments: A request was made that the next report include a discussion of how surface water is managed on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/31/2010
Comments: The monitoring results are consistent with previous results. The test results do not show any cause for concern for human health or the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 02/16/2011
Comments: The results of groundwater monitoring are consistent with previous results. The remedy remains protective.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/09/2010
Comments: The cap remains protective and no areas of concern were identified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/21/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/21/2009
Comments: Field work was completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/28/2010
Comments: Groundwater samples were collected 10/27-10/28.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/19/2011
Comments: Samples were collected.

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/14/2011
Comments: The sampling event was coordinated with the S. Bayfront site sampling event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 06/23/2011
Comments: The monitoring involves testing of groundwater, surface water, and storm drain water. Chlorinated solvents, methy-tert-butyl-ether (MTBE), and arsenic are generally consistent with historical results. Some exceedences of the Risk Management Plan concentrations are noted however due to a lack of receptors of groundwater, those exceedenced do not represent a concern for human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/19/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/21/2012
Comments: The cap across the site remains in good condition and maintenance was not required. The cap is protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/12/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/17/2012
Comments: Groundwater samples were were collected at the Site; samples are collected once per year and tested for contaminants related to the former industrial operations at the Site. In addition, water samples of the creek adjacent to the Site were collected.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/07/2013
Comments: Groundwater, storm drain, and creek samples are collected once per year. The suite of tests performed on the samples includes tests for volatile organic compounds (VOCs) and arsenic. This site is in compliance with safe levels established in the cleanup plan for VOCs and arsenic discharges to the storm drain and the creek this period. The remedy continues to be protective of human health and the

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/20/1998
Comments: Signed VCA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Soil OU
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Completion Report
Schedule Due Date: 11/15/2013
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 10/01/2013
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 22.77
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Tom Price
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 01890019
Site Code: 200954
Assembly: 15
Senate: 09
Special Program: Polanco Redevelopment MOA
Status: Certified / Operation & Maintenance
Status Date: 08/22/2000
Restricted Use: YES
Site Mgmt. Req.: DAY, ELD, HOS, MON, GW, NOWN, EXT, SCH, FOOD, COV
Funding: Responsible Party
Latitude: 37.83472
Longitude: -122.2927
APN: 049 103800900, 049 103801700, 049 103801800, 049 103900800, 049 155004800, 049 155104900, 049-1038-001-1, 049-1038-001-4, 049-1038-002, 049-1038-003, 049-1038-006-2, 049-1038-007, 049-1038-008, 049-1516-007-2
Past Use: PAINT MANUFACTURING, MANUFACTURING - PESTICIDES, VEHICLE MAINTENANCE
Potential COC: Arsenic, Lead, Trichloroethylene (TCE, Chromium VI, Copper and compounds
Confirmed COC: Arsenic, Lead, Trichloroethylene (TCE, Chromium VI, Copper and compounds, Trichloroethylene (TCE, Chromium VI, Copper and compounds, Arsenic, Lead
Potential Description: OTH, SOIL, SV
Alias Name: Bay Street

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Alias Type:	Alternate Name
Alias Name:	ELEMENTIS PIGMENTS
Alias Type:	Alternate Name
Alias Name:	HARCROS PIGMENTS
Alias Type:	Alternate Name
Alias Name:	MCKINLEY PROPERTY
Alias Type:	Alternate Name
Alias Name:	PFIZER
Alias Type:	Alternate Name
Alias Name:	SEPULVEDA PROPERTY
Alias Type:	Alternate Name
Alias Name:	SHERWIN WILIAMS - SHELLMOUND STREET
Alias Type:	Alternate Name
Alias Name:	049 103800900
Alias Type:	APN
Alias Name:	049 103801700
Alias Type:	APN
Alias Name:	049 103801800
Alias Type:	APN
Alias Name:	049 103900800
Alias Type:	APN
Alias Name:	049 155004800
Alias Type:	APN
Alias Name:	049 155104900
Alias Type:	APN
Alias Name:	049-1038-001-1
Alias Type:	APN
Alias Name:	049-1038-001-4
Alias Type:	APN
Alias Name:	049-1038-002
Alias Type:	APN
Alias Name:	049-1038-003
Alias Type:	APN
Alias Name:	049-1038-006-2
Alias Type:	APN
Alias Name:	049-1038-007
Alias Type:	APN
Alias Name:	049-1038-008
Alias Type:	APN
Alias Name:	049-1516-007-2
Alias Type:	APN
Alias Name:	110033615915
Alias Type:	EPA (FRS #)
Alias Name:	T0600101074
Alias Type:	GeoTracker Global ID
Alias Name:	T0600102302
Alias Type:	GeoTracker Global ID
Alias Name:	201087
Alias Type:	Site Code - Historical
Alias Name:	200954
Alias Type:	Project Code (Site Code)
Alias Name:	01280006
Alias Type:	Envirostor ID Number
Alias Name:	01890019
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/18/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/15/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 03/13/2007
Comments: Oversight and Consultation Agreement was amended for PDF submittal of documents.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/26/2000
Comments: Signed O&M Agreement which required that the capped (building founddations and paving) for the site be maintained. Additionally, it required groundwater monitoring. Recorded Deed Restriction prohibiting residential use on the lower floors and recognizing that the site will be primarily a commerical complex.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 05/12/1999
Comments: A Notice of Determination was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/26/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 02/04/2010
Comments: Cracks were observed in the parking areas, streets or sidewalks, but were minor.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/22/2000
Comments: Certified Site. The property has been developed into a large commercial complex, with residential units occupying the upper floors. Not reported

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

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/03/2007
Comments: The surface area of cap appeared in good condition. There was no evidence of any activities prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/20/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 01/04/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/22/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/20/2012
Comments: Not reported

Completed Area Name: Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 06/05/2013
Comments: The project is related to construction of an elevator at the Barnes and Noble Bookstore. Included are the engineering drawings, soil management plan, and health and safety plans.

Completed Area Name: Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/02/2013
Comments: The fieldwork for construction of the elevator is completed.

Completed Area Name: Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Soils Management Plan
Completed Date: 09/03/2013
Comments: Not reported

Completed Area Name: Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 09/03/2013
Comments: Not reported

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

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 12/23/2008
Comments: Upon observing the current site conditions in all portions of the site except for block 3 or onorthern parcelo, DTSC concludes that they remain protective of human health and the environment. Impacted soil remains under the concrete surface and asphalt surfaces, which remain undisturbed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2011
Comments: Estimate of DTSC costs to provide regulatory oversight from 7/1/2011 to 6/30/2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/22/2011
Comments: Demand Letter #3

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2010
Comments: The cost estimate for DTSC's oversight for the fiscal year 2010-2011 it $10,230.00.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 05/18/2011
Comments: Demand Letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 06/16/2011
Comments: Demand Letter #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/23/2009
Comments: Cost estimate for the 2009-2010 fiscal year (through 6/30/2010).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/03/2011
Comments: Close out memo for old site code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/24/2012
Comments: The cost estimate covers anticipated regulatory oversight expenses

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

from 7/1/2012 to 6/30/2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/14/2013
Comments: Estimate of regulatory oversight costs by DTSC for the 2013-14 fiscal year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/08/2009
Comments: Section 6.3 of that report indicated the potential for indoor air in a specific area of the site. In response to those concerns, investigations were conducted and the following reports were generated: 1.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 07/26/2000
Comments: Approved O&M Plan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 03/01/1999
Comments: Approved RIFS. Environmental investigation found significant soil and groundwater contamination primarily in the area of the former pesticide facility, which makes up the northern portion of the Shellmound properties. Soils in the northern area of the Shellmound Properties detected arsenic, DDT residuals, other miscellaneous organic compounds, petroleum hydrocarbons, and hydrogen sulfides. Shallow groundwater in this area also detected elevated concentrations of arsenic. Soil invetigation at the former Elementis Pigment site detected limited areas of metal (lead and zinc) contamination. No significant groundwater impacts were identified in this area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/27/1999
Comments: Approved Remedial Design for capping.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 05/08/2000
Comments: Completed Remedial Action. Approximately 28,600 tons of soils were excavated and disposed at approved landfill. Approximately 535,000 gallons of water were encountered during excavation. Of this total, 385,000 gallons of water were treated and discharged under permit into EBMUD Sanitary Sewer System and 250,000 gallons of water were hauled off-site and disposed at approved treatment facility. The property was backfilled with clean soil.

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 05/12/1999
Comments: Approved RAP requiring: 1) excavation of contaminated soils and groundwater and replacement with clean fill, 2) recordation of a deed restriction, and 3) establishment of a risk management plan (O&M Plan).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/18/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/13/2007
Comments: Approved the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/19/2005
Comments: DTSC completed reviewing the GW Monitoring report and had no comments.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/22/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/24/2007
Comments: Continue with semi-annual GW monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/25/2004
Comments: No repairs needed at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 05/05/2005
Comments: No repairs needed for the cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/23/2007
Comments: No problems noted.

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/26/2003
Comments: Continue with GW monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 09/16/2003
Comments: Monitoring program will consist of quarterly sampling for the first year, and semi-annual after the completion of first year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 07/07/2004
Comments: Continue quarterly groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/21/2005
Comments: Continue with groundwater monitoring. Next sampling event will occur in April 2005. Based upon the consistent results of the first year of monitoring, monitoring frequency been moved to semi-annual for 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/16/2007
Comments: No problems noted in the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 03/27/2008
Comments: Letter of Completion

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/10/2008
Comments: Report indentified only minor cracks in cap and no significant erosion of lanscaped areas.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/17/2009
Comments: Annual inspection noted minor cracks. No action is necessary at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/02/2008

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Comments: Wherever present, all contaminant concentrations remain within decaying trends except for those found in well EBS1. TCE concentrations in EBS1 are increasing and have more than doubled since the last sampling on 10/11/2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/04/2009
Comments: DTSC had no comments on the report, groundwater is within historical ranges.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/15/2009
Comments: The public notice was posted in three locations in town where we post all of out official City/Agency notices on May 15, 2009. Also, the notice was mailed to all the businesses/residents/property owners that are on the mailing list I sent you on May 18, 2009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 08/05/2009
Comments: Groundwater concentrations remain within historic ranges.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 01/28/2010
Comments: A request was made that the next report include a discussion of how surface water is managed on site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 12/31/2010
Comments: The monitoring results are consistent with previous results. The test results do not show any cause for concern for human health or the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 02/16/2011
Comments: The results of groundwater monitoring are consistent with previous results. The remedy remains protective.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/09/2010
Comments: The cap remains protective and no areas of concern were identified.

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

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Document Type: Long Term Monitoring Report
Completed Date: 03/21/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/21/2009
Comments: Field work was completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/28/2010
Comments: Groundwater samples were collected 10/27-10/28.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/19/2011
Comments: Samples were collected.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/14/2011
Comments: The sampling event was coordinated with the S. Bayfront site sampling event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Long Term Monitoring Report
Completed Date: 06/23/2011
Comments: The monitoring involves testing of groundwater, surface water, and storm drain water. Chlorinated solvents, methy-tert-butyl-ether (MTBE), and arsenic are generally consistent with historical results. Some exceedences of the Risk Management Plan concentrations are noted however due to a lack of receptors of groundwater, those exceedenced do not represent a concern for human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/19/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/21/2012
Comments: The cap across the site remains in good condition and maintenance was not required. The cap is protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report

SOUTH BAYFRONT PROJECT (Continued) **S103393756**

Completed Date: 01/12/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/17/2012
Comments: Groundwater samples were were collected at the Site; samples are collected once per year and tested for contaminants related to the former industrial operations at the Site. In addition, water samples of the creek adjacent to the Site were collected.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/07/2013
Comments: Groundwater, storm drain, and creek samples are collected once per year. The suite of tests performed on the samples includes tests for volatile organic compounds (VOCs) and arsenic. This site is in compliance with safe levels established in the cleanup plan for VOCs and arsenic discharges to the storm drain and the creek this period. The remedy continues to be protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/20/1998
Comments: Signed VCA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Soil OU
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Completion Report
Schedule Due Date: 11/15/2013
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 10/01/2013
Schedule Revised Date: Not reported

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172 South 1/2-1 0.882 mi. 4657 ft. **SHELLMOUND VENTURE PROJECT** **DEED S102008193**
SHELLMOUND STREET **VCP N/A**
EMERYVILLE, CA 94608 **ENVIROSTOR**

Relative: Lower

Actual: 9 ft.

DEED:
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Deed Date(s): 03/27/1998
EDR Link ID: 1330039

SHELLMOUND VENTURE PROJECT (Continued) **S102008193**

VCP:

Facility ID:	01330039
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	REM, ASP, DAY, ELD, HOS, LUC, EX, OIL, NSUB, SCH, FOOD, RES
Acres:	7.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Claude Jemison
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Site Code:	200450
Assembly:	15
Senate:	09
Special Programs Code:	Polanco Redevelopment MOA
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	04/17/1998
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	37.83445 / -122.2936
APN:	049 151600202, 049 151601200, 049 151601300, 049-1516-004-4, 049-1516-006-2, 049-1516-006-5, 049-1516-007-5
Past Use:	MANUFACTURING - METAL
Potential COC:	30001, 30005, 30013, 30018
Confirmed COC:	30018,30001,30005,30013
Potential Description:	SOIL
Alias Name:	CHIRON CORP
Alias Type:	Alternate Name
Alias Name:	JUDSON STEEL
Alias Type:	Alternate Name
Alias Name:	MARIOTT HOTELS
Alias Type:	Alternate Name
Alias Name:	049 151600202
Alias Type:	APN
Alias Name:	049 151601200
Alias Type:	APN
Alias Name:	049 151601300
Alias Type:	APN
Alias Name:	049-1516-004-4
Alias Type:	APN
Alias Name:	049-1516-006-2
Alias Type:	APN
Alias Name:	049-1516-006-5
Alias Type:	APN
Alias Name:	049-1516-007-5
Alias Type:	APN
Alias Name:	Not reported
Alias Type:	APN
Alias Name:	110033608399
Alias Type:	EPA (FRS #)
Alias Name:	200450
Alias Type:	Project Code (Site Code)
Alias Name:	01330039
Alias Type:	Envirostor ID Number

SHELLMOUND VENTURE PROJECT (Continued) **S102008193**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	05/30/2008
Comments:	Site Inspection noted no problems.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	03/21/2005
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	10/07/2010
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/03/2006
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	06/24/2008
Comments:	Call in letter for 5-Year Review

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/15/2007
Comments:	Site conditions observed at the property comply with the deed restriction.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	07/22/2009
Comments:	The current site conditions, DTSC concludes that on Parcels II and III the selected remedial action remains protective of human health and the environment. The West Elm building in Parcel I is part of the Myers/Southbay Front site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	07/19/2011
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction - Site Inspection/Visit
Completed Date:	06/15/2012

SHELLMOUND VENTURE PROJECT (Continued) **S102008193**

Comments: DTSC conducted its annual site visit to check the condition of the cap and to verify compliance with the restrictions and requirements of the Land Use Covenant. Minor cracks were observed in the paved areas surrounding the Courtyard by Marriott Hotel on Parcel II ; The vacant lot on the western portion of Parcel II was overgrown with grass and weeds, but there was no evidence of soil erosion impacting the adjacent Temescal Creek. Minor cracks were observed in the pavement on the east side of Parcel II .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 07/22/2009
Comments: Upon observing the current site conditions, DTSC concludes that on Parcels II and III the selected remedial action remains protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/17/1998
Comments: Certified Site. Completed Removal Action. Decommissioned monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 01/06/1998
Comments: Removal Action Workplan (RAW) approved in January 1998, required that a deed restriction limiting the property to industrial/commercial uses be recorded and all existing monitoring wells be decommissioned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 11/25/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/11/2009
Comments: The Department of Toxic Substances Control (DTSC) has published a Public Notice stating that a Five-Year Review of the remedies for contaminated soil has been conducted. This five-year review has determined that the institutional control, i.e., land use restrictions, on the Site continues to be protective of human health and the environment.

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

SHELLMOUND VENTURE PROJECT (Continued) **S102008193**

Completed Document Type: Fact Sheets
Completed Date: 12/01/1997
Comments: Fact sheet announcing public comment period on Draft Removal Action Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 03/27/1998
Comments: Recorded Deed Restriction limiting to industrial/commercial uses.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 01/06/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 04/17/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 05/10/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 11/19/1993
Comments: Signed Voluntary Cleanup Agreement with the City of Emeryville Redevelopment Agency to investigate and remediate with the intended future use of the property being commercial.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/02/1993
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2014
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 7.5

SHELLMOUND VENTURE PROJECT (Continued) **S102008193**

NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Claude Jemison
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Facility ID: 01330039
Site Code: 200450
Assembly: 15
Senate: 09
Special Program: Polanco Redevelopment MOA
Status: Certified O&M - Land Use Restrictions Only
Status Date: 04/17/1998
Restricted Use: YES
Site Mgmt. Req.: REM, ASP, DAY, ELD, HOS, LUC, EX, OIL, NSUB, SCH, FOOD, RES
Funding: Responsible Party
Latitude: 37.83445
Longitude: -122.2936
APN: 049 151600202, 049 151601200, 049 151601300, 049-1516-004-4, 049-1516-006-2, 049-1516-006-5, 049-1516-007-5
Past Use: MANUFACTURING - METAL
Potential COC: Arsenic, Total Chromium (1:6 ratio Cr VI:Cr III, Lead, Polychlorinated biphenyls (PCBs
Confirmed COC: Arsenic, Total Chromium (1:6 ratio Cr VI:Cr III, Lead, Polychlorinated biphenyls (PCBs, Polychlorinated biphenyls (PCBs, Arsenic, Total Chromium (1:6 ratio Cr VI:Cr III, Lead
Potential Description: SOIL
Alias Name: CHIRON CORP
Alias Type: Alternate Name
Alias Name: JUDSON STEEL
Alias Type: Alternate Name
Alias Name: MARIOTT HOTELS
Alias Type: Alternate Name
Alias Name: 049 151600202
Alias Type: APN
Alias Name: 049 151601200
Alias Type: APN
Alias Name: 049 151601300
Alias Type: APN
Alias Name: 049-1516-004-4
Alias Type: APN
Alias Name: 049-1516-006-2
Alias Type: APN
Alias Name: 049-1516-006-5
Alias Type: APN
Alias Name: 049-1516-007-5
Alias Type: APN
Alias Name: Not reported
Alias Type: APN
Alias Name: 110033608399
Alias Type: EPA (FRS #)
Alias Name: 200450
Alias Type: Project Code (Site Code)
Alias Name: 01330039
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE

SHELLMOUND VENTURE PROJECT (Continued) **S102008193**

Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 05/30/2008
Comments: Site Inspection noted no problems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/21/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/07/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/03/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/24/2008
Comments: Call in letter for 5-Year Review

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2007
Comments: Site conditions observed at the property comply with the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/22/2009
Comments: The current site conditions, DTSC concludes that on Parcels II and III the selected remedial action remains protective of human health and the environment. The West Elm building in Parcel I is part of the Myers/Southbay Front site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/19/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2012
Comments: DTSC conducted its annual site visit to check the condition of the cap and to verify compliance with the restrictions and requirements

SHELLMOUND VENTURE PROJECT (Continued) **S102008193**

of the Land Use Covenant. Minor cracks were observed in the paved areas surrounding the Courtyard by Marriott Hotel on Parcel II ; The vacant lot on the western portion of Parcel II was overgrown with grass and weeds, but there was no evidence of soil erosion impacting the adjacent Temescal Creek. Minor cracks were observed in the pavement on the east side of Parcel II .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 07/22/2009
Comments: Upon observing the current site conditions, DTSC concludes that on Parcels II and III the selected remedial action remains protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/13/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/17/1998
Comments: Certified Site. Completed Removal Action. Decommissioned monitoring wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 01/06/1998
Comments: Removal Action Workplan (RAW) approved in January 1998, required that a deed restriction limiting the property to industrial/commercial uses be recorded and all existing monitoring wells be decommissioned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 11/25/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/11/2009
Comments: The Department of Toxic Substances Control (DTSC) has published a Public Notice stating that a Five-Year Review of the remedies for contaminated soil has been conducted. This five-year review has determined that the institutional control, i.e., land use restrictions, on the Site continues to be protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/01/1997

SHELLMOUND VENTURE PROJECT (Continued) **S102008193**

Comments:	Fact sheet announcing public comment period on Draft Removal Action Workplan.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	03/27/1998
Comments:	Recorded Deed Restriction limiting to industrial/commercial uses.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	01/06/1998
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/17/1998
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	05/10/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/19/1993
Comments:	Signed Voluntary Cleanup Agreement with the City of Emeryville Redevelopment Agency to investigate and remediate with the intended future use of the property being commercial.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	02/02/1993
Comments:	Not reported
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2014
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 20 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BERKELEY	S102008230	BERKELEY LANDFILL COMPANY	BETWEEN I-80, FRONTAGE RD & MA	94710	ENVIROSTOR
BERKELEY	S105022758	CALTRANS WEST FRONTAGE RD	W OF HWY 80 APPRO. X VIRG	94710	HIST CORTESE
BERKELEY	S102008219	CALTRANS WEST FRONTAGE RD BERKELEY	W. OF HWY 80 APPROX. VIRGINIA	94710	ENVIROSTOR
BERKELEY	S112921653	GILMAN STREET SELF STORAGE LLC	1225 E SHORE HWY	94710	HAZNET
BERKELEY	1012175688	HAWKINS TRAFFIC SAFETY SUPPLY	1255 EAST SHORE HWY.	94710	RCRA-LQG
EMERYVILLE	S106784842	EMERY VILLAGE CENTER	0 45TH ST & PARK AVE	94608	Alameda County CS
EMERYVILLE	1010728781	63RD STREET TRUNK SEWER PROJECT	63RD STREET		FINDS
EMERYVILLE	U001599310	RYDER/PIE NATIONWIDE, INC.	5500 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	U001599302	P*I*E NATIONWIDE, INC.	5500 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	U001599287	JUDSON STEEL CORPORATION	4200 EASTSHORE HWY	94608	HIST UST
EMERYVILLE	S103393753	BARBARY COAST STEEL CORPORATIO	4300 EASTSHORE HIGHWAY	94608	HIST Cal-Sites, EMI
EMERYVILLE	1010729860	SHELLMOUND STREET	4300 EASTSHORE HIGHWAY		FINDS
EMERYVILLE	1010727600	POWELL STREET PLAZA	5500 EASTSHORE HIGHWAY		FINDS
EMERYVILLE	1003878532	CAPITOL REF CO	FOOT OF 64TH ST	94608	CERC-NFRAP
EMERYVILLE	1001115414	CHIRON CORPORATION	HOLLIS STREET	94608	RCRA NonGen / NLR, FINDS, HAZNE
EMERYVILLE	S113174363	CITY OF EMERYVILLE OLD SHELLMOUND	OLD SHELLMOUND ST	94608	HAZNET
EMERYVILLE	1001231500	CITY OF EMERYVILLE OLD SHELLMOUND	OLD SHELLMOUND ST SOIL AND	94608	RCRA-SQG
EMERYVILLE	1010729861	SHELLMOUND VENTURE PROJECT	SHELLMOUND STREET		FINDS
EMERYVILLE	S105023659	GARRETT FREIGHT LINE	UNKNOWN 64TH ST & LACOSTE	94608	HIST CORTESE
OAKLAND	1005904370	CALTRANS S F O B B TOLL PLAZA	HWY 80 FROM 1.4 KM TO 0.5 W OF	94608	RCRA-SQG, FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 04/26/2013
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: 11/11/2013
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
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 04/26/2013
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: 11/11/2013
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 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: 11/11/2013
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: 11/11/2013
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: 11/11/2013
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 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 inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 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

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

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

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

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

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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

Date of Government Version: 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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

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

Date of Government Version: 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.

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

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
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: 11/13/2013
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: 11/13/2013
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 Qualilty 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 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 quarterly 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: 11/08/2013
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: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

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

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR 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
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
Number of Days to Update: 61

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 09/10/2013
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: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

6701, 6705, & 6707 SHELLMOUND STREET
6701, 6705, & 6707 SHELLMOUND STREET
EMERYVILLE, CA 94608

TARGET PROPERTY COORDINATES

Latitude (North):	37.8483 - 37° 50' 53.88''
Longitude (West):	122.2957 - 122° 17' 44.52''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	561964.8
UTM Y (Meters):	4189012.2
Elevation:	17 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	37122-G3 OAKLAND WEST, CA
Most Recent Revision:	1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

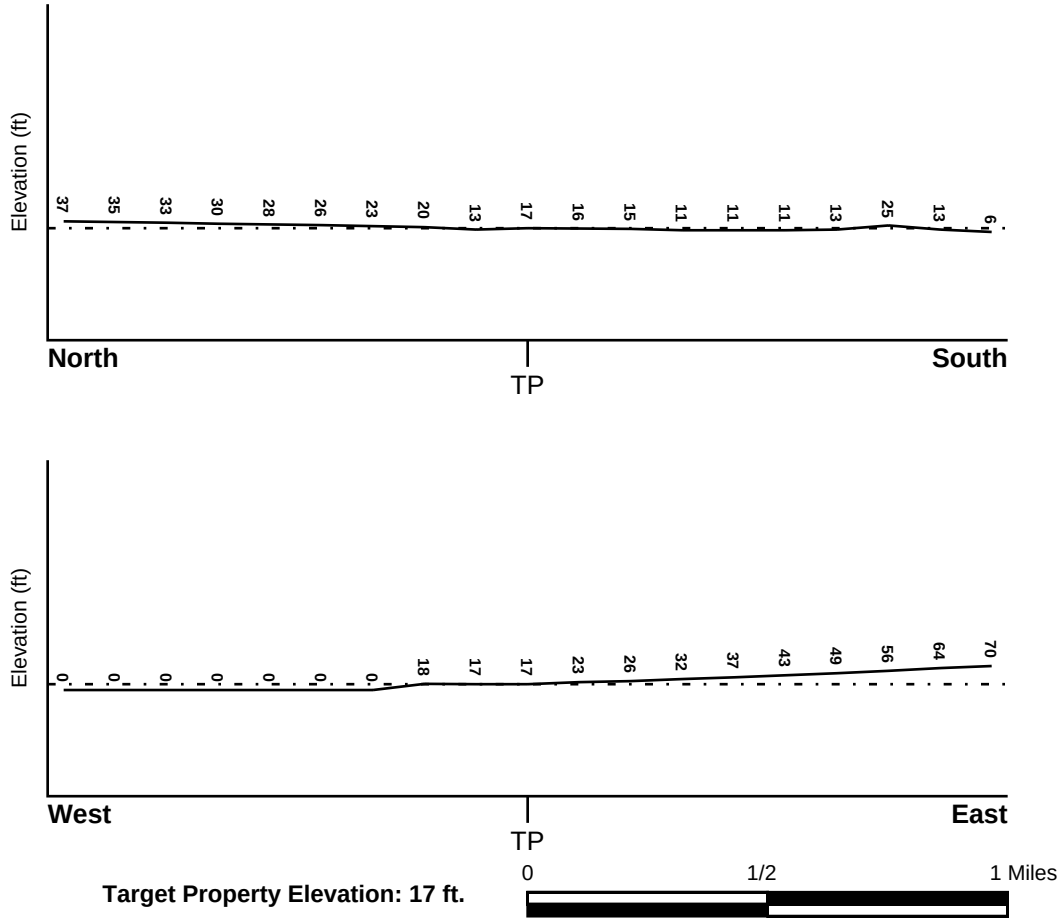
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 17 ft.

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
ALAMEDA, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06001C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
OAKLAND WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A1	0 - 1/8 Mile East	Varies
A2	0 - 1/8 Mile East	Varies
A3	0 - 1/8 Mile East	SW
4	1/8 - 1/4 Mile South	SW
5	1/8 - 1/4 Mile SE	NE
B6	1/4 - 1/2 Mile ENE	WSW
C7	1/4 - 1/2 Mile SE	W
B8	1/4 - 1/2 Mile ENE	SW
B9	1/4 - 1/2 Mile ENE	SW

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
B10	1/4 - 1/2 Mile ENE	Varies
C11	1/4 - 1/2 Mile SE	Varies
C12	1/4 - 1/2 Mile SE	Varies
D13	1/4 - 1/2 Mile ESE	Varies
D14	1/4 - 1/2 Mile East	Varies
15	1/4 - 1/2 Mile ENE	W
16	1/4 - 1/2 Mile South	NW
17	1/2 - 1 Mile SSE	NW
E18	1/2 - 1 Mile South	W
E19	1/2 - 1 Mile South	W
20	1/2 - 1 Mile ESE	SW, W
21	1/2 - 1 Mile NNE	NE, SE
F22	1/2 - 1 Mile NNE	Not Reported
F23	1/2 - 1 Mile NNE	Not Reported
G24	1/2 - 1 Mile SSE	SW,W,Varies
G25	1/2 - 1 Mile SSE	Varies
26	1/2 - 1 Mile SE	SW
G27	1/2 - 1 Mile SSE	SW
G28	1/2 - 1 Mile SSE	SW
G29	1/2 - 1 Mile SE	S
30	1/2 - 1 Mile East	Not Reported
31	1/2 - 1 Mile SSE	W

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

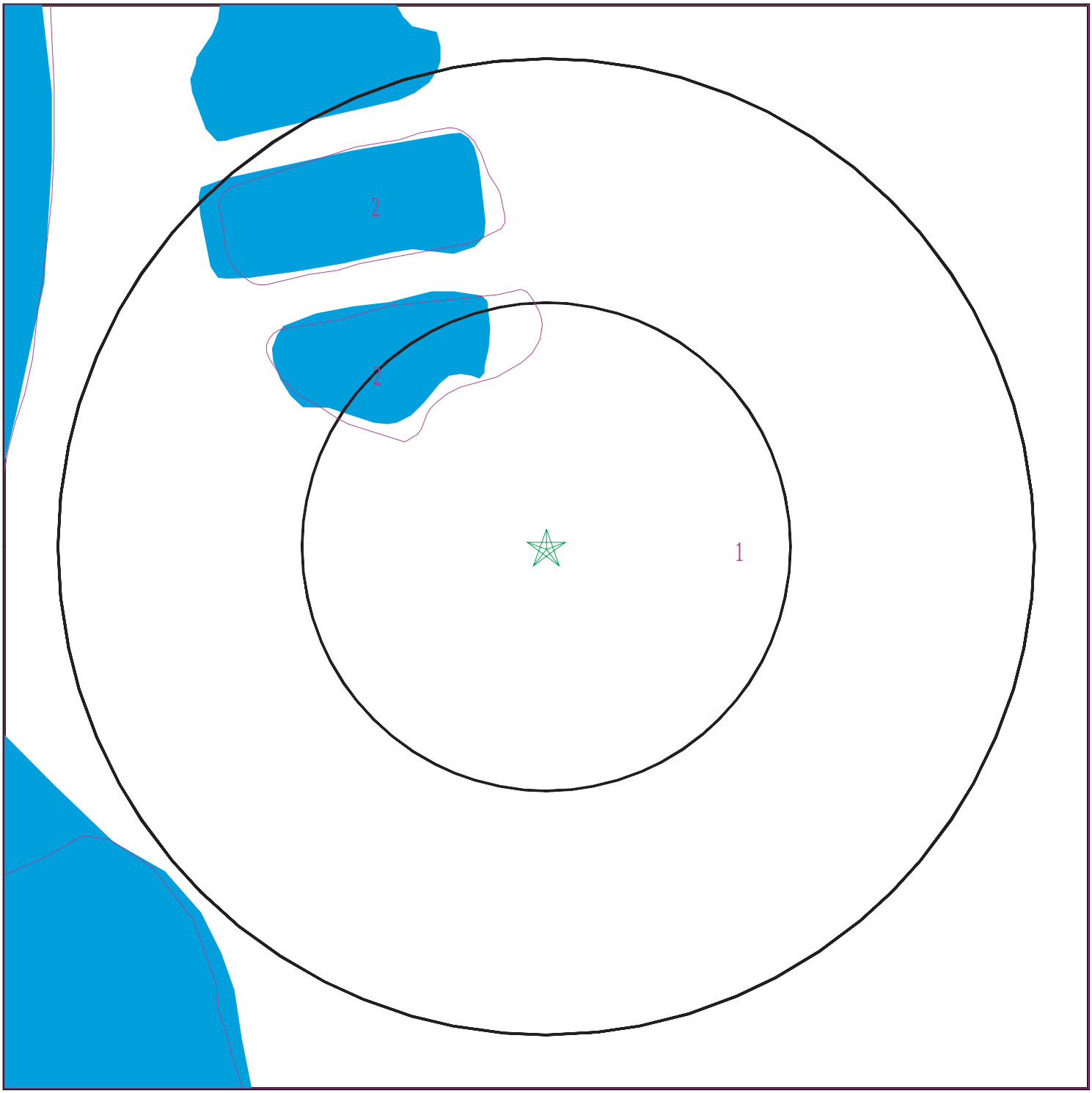
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

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

SSURGO SOIL MAP - 3787465.2s



Target Property
SSURGO Soil
Water

SITE NAME:	6701, 6705, & 6707 Shellmound Street	CLIENT:	PES Environmental, Inc.
ADDRESS:	6701, 6705, & 6707 Shellmound Street Emeryville CA 94608	CONTACT:	Julie Turnross
LAT/LONG:	37.8483 / 122.2957	INQUIRY #:	3787465.2s
		DATE:	November 18, 2013 9:50 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

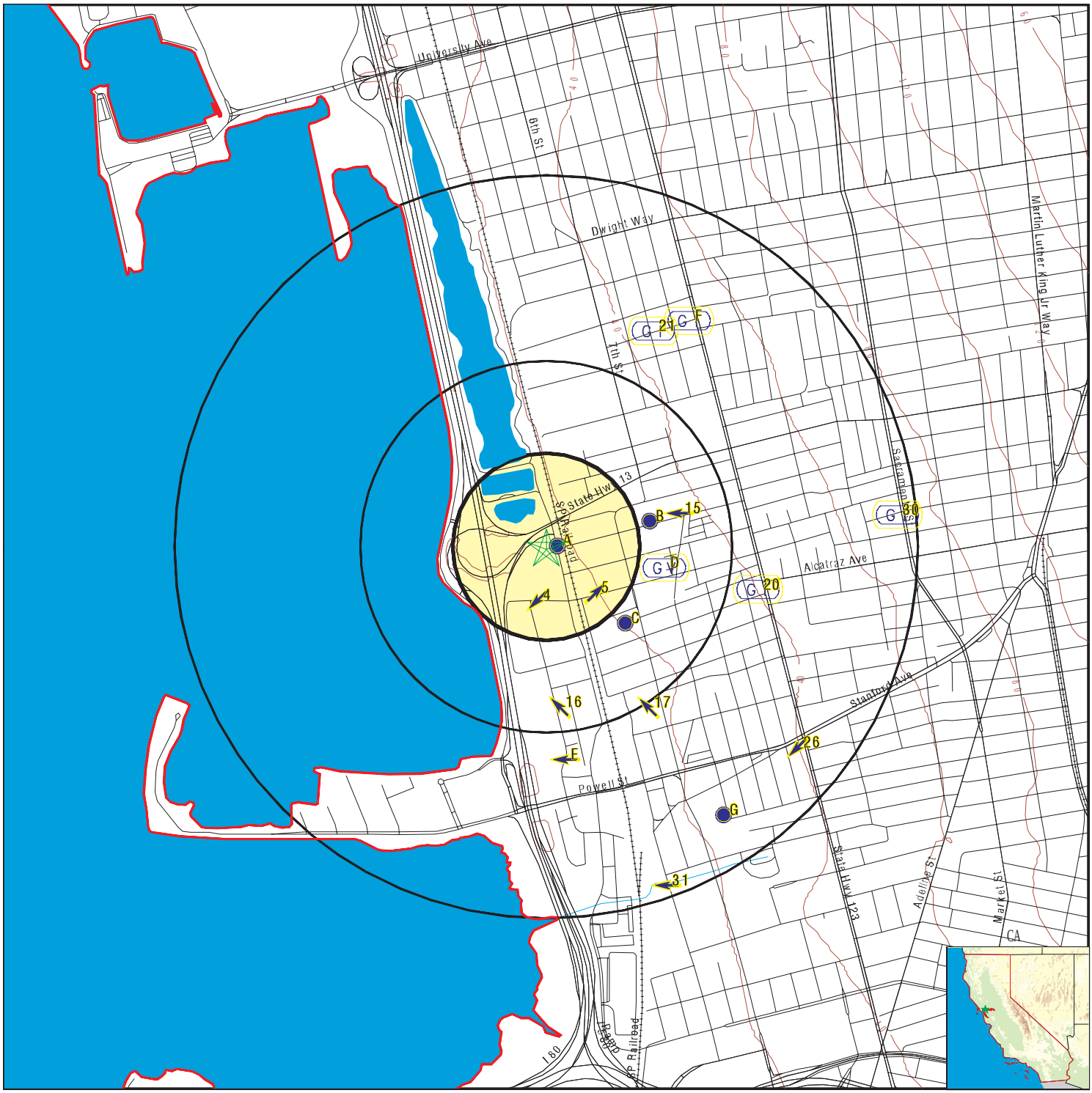
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 3787465.2s



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

0 1/4 1/2 1 Miles

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

N

SITE NAME:	6701, 6705, & 6707 Shellmound Street	CLIENT:	PES Environmental, Inc.
ADDRESS:	6701, 6705, & 6707 Shellmound Street Emeryville CA 94608	CONTACT:	Julie Turnross
LAT/LONG:	37.8483 / 122.2957	INQUIRY #:	3787465.2s
		DATE:	November 18, 2013 9:50 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
A1 **East** **0 - 1/8 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0971 Varies 21.5 22.0 Not Reported 01/30/1990	**AQUIFLOW**	**52485**
A2 **East** **0 - 1/8 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0971 Varies 5.15 13.13 Not Reported 12/15/1995	**AQUIFLOW**	**52486**
A3 **East** **0 - 1/8 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1415 SW 9.24 13.55 Not Reported 10/07/1992	**AQUIFLOW**	**51570**
4 **South** **1/8 - 1/4 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0558 SW 4.19 12.04 Not Reported 06/30/1995	**AQUIFLOW**	**53573**
5 **SE** **1/8 - 1/4 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1785 NE 4.18 4.94 Not Reported 09/14/1992	**AQUIFLOW**	**52365**
B6 **ENE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2191 WSW Not Reported Not Reported 10’ 02/06/1997	**AQUIFLOW**	**51589**
C7 **SE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0926 W 2.27 3.78 Not Reported 10/26/1995	**AQUIFLOW**	**51572**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID / Direction / Distance / Elevation			Database	EDR ID Number
B8 **ENE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0726 SW Not Reported Not Reported 11.02 05/31/1994	**AQUIFLOW**	**51567**
B9 **ENE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0726 SW Not Reported Not Reported 8 ft. 08/30/1993	**AQUIFLOW**	**51568**
B10 **ENE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0726 Varies Not Reported Not Reported 11.02 05/31/1995	**AQUIFLOW**	**51566**
C11 **SE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0926 Varies Not Reported Not Reported 14.61 10/09/1991	**AQUIFLOW**	**51571**
C12 **SE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0926 Varies Not Reported Not Reported 15.5 01/22/1996	**AQUIFLOW**	**51573**
D13 **ESE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0753 Varies Not Reported Not Reported 12 ft 07/14/1988	**AQUIFLOW**	**51577**
D14 **East** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1091 Varies Not Reported Not Reported 10.5 03/31/1988	**AQUIFLOW**	**51581**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
15 **ENE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2191 W Not Reported Not Reported 5 bgs 10/21/1996	**AQUIFLOW**	**51590**
16 **South** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	3805 NW Not Reported Not Reported 5 02/12/1991	**AQUIFLOW**	**50000**
17 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0773 NW Not Reported Not Reported 10-11 03/08/1989	**AQUIFLOW**	**51565**
E18 **South** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1651 W 2.49 4.05 Not Reported 09/10/1992	**AQUIFLOW**	**51560**
E19 **South** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1651 W Not Reported Not Reported 5.14 10/18/1989	**AQUIFLOW**	**51561**
20 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1142 SW, W 6.0 7.0 Not Reported 01/13/1989	**AQUIFLOW**	**65480**
21 **NNE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0436 NE, SE Not Reported Not Reported 20 07/31/1996	**AQUIFLOW**	**65488**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID / Direction / Distance / Elevation			Database	EDR ID Number
F22 **NNE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0195 Not Reported Not Reported Not Reported 9-6 09/06/1988	**AQUIFLOW**	**38199**
F23 **NNE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1051 Not Reported Not Reported Not Reported 10 09/1993	**AQUIFLOW**	**38237**
G24 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1306 SW,W,Varies 7.1 11.5 Not Reported 10/11/1994	**AQUIFLOW**	**49994**
G25 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1306 Varies Not Reported Not Reported 10.3 11/09/1993	**AQUIFLOW**	**53004**
26 **SE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0391 SW Not Reported Not Reported 5.8 11/15/1993	**AQUIFLOW**	**66324**
G27 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2284 SW 6.1 6.2 Not Reported 01/14/1997	**AQUIFLOW**	**52366**
G28 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2284 SW 8.0 8.5 Not Reported 07/21/1997	**AQUIFLOW**	**52367**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
G29 **SE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1754 S 6.25 12.0 Not Reported 11/10/1993	**AQUIFLOW**	**52369**
30 **East** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0360 Not Reported 6.93 8.45 Not Reported 06/30/1992	**AQUIFLOW**	**38212**
31 **SSE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1240 W 2.59 9.70 Not Reported 08/18/1997	**AQUIFLOW**	**52359**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94608	9	0

Federal EPA Radon Zone for ALAMEDA 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 ALAMEDA COUNTY, CA

Number of sites tested: 49

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.776 pCi/L	100%	0%	0%
Living Area - 2nd Floor	-0.400 pCi/L	100%	0%	0%
Basement	1.338 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

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

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

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

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation 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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APPENDIX H

RESUMES OF ENVIRONMENTAL PROFESSIONALS

GARY THOMAS, P.G.
Senior Geologist

Mr. Thomas is a professional geologist with over 23 years of experience in the environmental field. His principal responsibilities include managing and conducting Phase I and II environmental site assessments of residential, commercial, and industrial sites, development of site investigation work plans, monitoring well design and installation, remedial action planning and implementation, and waste management.

Mr. Thomas is familiar with project costing and budgeting, preparing proposals, federal procurement and accounting requirements, subcontractor procurement and personnel supervision. His experience includes surface water, storm water, sewer, groundwater, and sediment and soil sampling; multiple aquifer zone monitoring, extraction, and recovery well design and installation and development; well abandonment; injection point installation for in-situ remediation; and soil boring/trench logging; utility investigations; aquifer testing; soil gas surveying; treatment system O&M; preparation of Health & Safety plans; planning document preparation; technical document preparation for regulatory agencies; database management; and field quality control. His regulatory experience includes Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation Reclamation Act (RCRA), hazardous materials and waste management, site investigations, U.S. Navy Installation Restoration Program (IRP), Quality Assurance/Quality Control (QA/QC), Field Sampling and Analysis Plan (FSAP), Quality Assurance Program Plan (QAPP), and Health and Safety Plans (HASP).

EDUCATION

M.S., Geology, California State University Northridge, 1988
B.S., Geology, University of the Pacific, Stockton, California, 1985
A.A., General Education, Santa Rosa Junior College, California, 1982

EXPERIENCE

2006 - Present: PES Environmental, Inc., Novato, California

2004 - 2006: Kleinfelder, Inc., Santa Rosa, California

2002 - 2004: ARCADIS G&M, Inc., Richmond, California

1995 - 2002: Uribe & Associates, Oakland, California

1989 - 1995: Harding Lawson Associates, Novato, California

PROFESSIONAL REGISTRATIONS

State of California – Professional Geologist, License No. 8278

HEALTH AND SAFETY TRAINING

OSHA 40-Hour Hazardous Materials Health and Safety Training, 1989
OSHA 8-Hour Hazardous Materials Health and Safety Training Refresher Course (current)
OSHA 24-Hour Supervisory Hazardous Substances/Waste Health and Safety Training, 1990

REPRESENTATIVE PROJECTS

Phase II Soil and Groundwater Investigation at a Large Industrial Facility in Napa, CA. Managed a field program that involved collecting soil and groundwater samples at an active industrial facility in Napa, California. With oversight by the San Francisco Regional Water Quality Control Board (RWQCB), extensive additional sampling was performed at various locations throughout the facility to supplement existing data. In total, over 1,600 chemical tests were performed on soil and groundwater samples collected, including analysis for petroleum hydrocarbons, volatile organic compounds (VOCs), metals, and pH. These supplemental and prior investigations have found that petroleum products such as diesel, motor oil, and hydraulic oil, and various VOCs such as solvents, and locally, metals, are present in soil and/or groundwater. Also assisted in preparing large portions of a five volume remedial investigation, feasibility study and remedial action plan report (RI/FS/RAP) for the facility.

Soil Excavation, bulk-storage tank farm, Alameda, California. Task manager for a soil remediation project at an active bulk-storage tank farm. Approximately 410 cubic yards of soil were removed using jackhammers and manual tools during excavation activities at the site. Excavation depths ranged from 6 inches to 4 feet bgs. Soil confirmation sample were collected to assess the whether site total petroleum hydrocarbon cleanup levels established by the RWQCB.

In-Situ Remediation of Groundwater Affected by Volatile Organic Compounds, San Leandro, California. Managed a field program that involved the installation of over 100 injection points that were used to inject a dilute carbohydrate solution into multiple water-bearing zones. The injected solution created an in-situ reactive zone (IRZ) for the remediation of VOC-affected groundwater. The field program also involved the installation and sampling of wells to monitor the effectiveness of the remedial program. Extensive subsurface geologic characterization was necessary to assess water-bearing zones locations and to understand the fate and transport of contamination.

Former Bulk Fueling Facility, Dinuba, California. Managed the installation of groundwater extraction, recovery, and monitoring wells in multiple water-bearing zones for a groundwater treatment system (combined liquid-phase granular activated carbon [LPGAC] and air stripping).
Phase I Environmental Site Assessments. Conducted various Phase I Environmental Site Assessments for property buyers, sellers, developers, and lenders. Properties have included

residential, commercial, and industrial properties in conformance with specific lender requirements and American Society for Testing and Materials guidelines.

Project manager of various groundwater sampling programs at the Mare Island Site, Vallejo, California. The projects included technical and field staff supervision; procurement of field equipment and supplies; performing various field tasks including groundwater sampling, well inspection and repair, well abandonment, and site-wide synoptic groundwater level measurements; scheduling shipments of samples from location to the laboratory; training staff; overseeing compliance with OSHA health and safety plan; assisting in work plan and health and safety plan preparation; hydrogeological and geochemical data evaluation; quarterly and annual report preparation; and the preparation of a facility-wide long-term groundwater monitoring plan. Accountable for client relations, monthly project status reports, and reviewing and approving invoices. Prepared large portions of the RI report for Investigation Area I at Mare Island, which involved extensive hydrogeological and geochemical data evaluation.

Coordinated the field activities at Alameda Point (the former Alameda Naval Air Station). Field activities included technical and field staff supervision; procurement of field equipment and supplies; coordination, management, and scheduling of field operations which involved direct-push and sonic drilling, ribbon dense non-aqueous phase liquid (DNAPL) investigations, groundwater sampling using passive diffusion bags and a low-flow-rate sampling method, soil-gas sampling, and vacuum excavation utility investigations. Performed technical review of field documentation; oversaw compliance with OSHA health and safety and work plans; and corresponded with the client.

Coordinated the field activities at Hunters Point Annex (HPA), San Francisco, CA and the Mare Island Site, Vallejo, CA. Field coordination activities at the HPA and Mare Island sites included technical and field staff supervision; procurement of field equipment and supplies; coordination, management, and scheduling of field operations which involved drilling, well installation, well development, well abandonment, groundwater sampling, Hydropunch sampling, tidal influence studies, and utility investigations. Performed technical review of field documentation; oversaw compliance with OSHA health and safety and work plans; and corresponded with the client. Assisted in writing RI reports for the HPA and Mare Island sites, which involved extensive hydrogeological and geochemical data evaluation.

Phase II Soil and Groundwater Investigations. Mr. Thomas has extensive experience in conducting soil and groundwater investigations of properties with current and historical industrial use. Techniques include geophysical surveys for locating underground storage tanks, soil gas surveys, and soil sampling with direct-push, hollow-stem auger rigs, and air rotary rigs. The placement of borings, sampling intervals, and chemical analyses are chosen to identify the nature of contamination, its extent, and provide data for remediation planning, cost analysis, and eventual site closure.

Geologic and Aquifer Characterization. Mr. Thomas successfully conducted geologic and aquifer characterization studies on complex sites. Studies involved collection of data using surface mapping and subsurface borehole data; determination of soil properties and subsurface geologic structures, characterization of aquifers, including position, gradient, interrelationship with structure, and multiple aquifer systems; measurement of parameters required for fate and transport modeling and risk assessment. His experience includes slug tests, step tests, and 24 to 48-hour constant rate pumping tests.

KYLE S. FLORY, P.G.

Principal Geologist

Mr. Flory has more than 27 years professional experience managing and performing technical studies in the fields of geology, hydrogeology, and environmental engineering. Mr. Flory has extensive experience in all phases of investigation, remediation, management, and closure of hazardous waste sites. Mr. Flory has conducted environmental work on aero-space manufacturing facilities, operating airports, nursery facilities, former shipyard manufacturing facilities, former solvent recycling facilities, pulp mills, wood mill sites, hazardous waste landfills, hazardous waste incinerator facilities, decommissioned oil refineries, oil drilling sites, dry-cleaning facilities, pesticide and chemical manufacturing plants, government research and development laboratories, freeze-drying facilities, wood treatment facilities, and leaking underground fuel storage tank sites.

Mr. Flory has evaluated field data to determine geologic and hydrogeologic characteristics of the vadose and saturated zones, defined the extent of contamination in the subsurface, determined contaminant volumes in the subsurface, conducted feasibility studies for remedial alternatives, performed cost-analysis to determine cost-effective remedial options in conjunction with redevelopment plans, assessment and evaluation of monitored natural attenuation parameters, developed health risk-based closure plans, designed and supervised the installation of remediation systems, supervised ongoing remediation activities, and monitored remediation progress through the life of each project. Through the application of his expertise in these areas, Mr. Flory has supported the investigation, remediation and closure of many sites across the country that have been impacted with a wide variety of contaminants. Mr. Flory has also provided technical support in litigation cases.

Mr. Flory is experienced in a wide variety of drilling techniques, direct-push sampling technologies, soil and sediment sampling, groundwater monitoring and extraction well design and installation, groundwater sampling, evaluating soil and groundwater analytical results, aquifer testing and analysis, soil vapor extraction well installation, vapor extraction testing and analysis, groundwater sparge testing and analysis. Mr. Flory has also performed vapor intrusion analysis, conducted indoor air sampling, health risk assessments, developing risk-based target soil and groundwater cleanup levels, regulatory negotiations, litigation support, establishing terms of sale contracts, developing the amount of escrow hold-back accounts, client relations, and project management.

EDUCATION

B.S., Geology, 1984, University of Missouri-Columbia

EXPERIENCE

1996 - Present:	PES Environmental, Inc., Novato, California
1990 - 1996:	Philip Environmental, Emeryville, California
1990 - 1990:	EMCON Associates, San Jose, California
1985 - 1988:	Woodward-Clyde Consultants, St. Louis, Missouri
1985 - 1985:	Exploration Logging Co., Houston, Texas

REGISTRATION

Professional Geologist - California

REPRESENTATIVE PROJECTS

Dry-Cleaning Facilities in California, Delaware, Illinois, Maryland, North Carolina, New Jersey, New Mexico, Oregon, Pennsylvania, South Carolina, Virginia, Washington, Washington D.C., and Wisconsin – Managed and supervised numerous subsurface investigations at approximately 75 dry-cleaning facilities. Initial investigations were conducted on behalf of potential buyer of shopping centers as part of due diligence. Investigations established baseline conditions at the time of the property transfer and allowed buyer to receive indemnity from seller or fund remediation and monitoring through escrow hold-back accounts. Also assisted other environmental consultants develop and implement subsurface investigations and remedial strategies. Developed and implemented remedial plans for cleanup of numerous dry-cleaning facilities. Clients: Confidential Real Estate Investment Trusts and Property Owners

San Francisco International Airport – Provided technical consulting, litigation support and conducted technical settlement negotiations on behalf of the City and County of San Francisco regarding contaminated soil and groundwater encountered during development of the San Francisco International Airport and future costs associated with handling and managing contaminated soil and groundwater. The process included conducting detailed analysis of historical and current operations at SFIA (i.e., number of tenants at a particular location, types of operations, length of operations, leases with SFIA and agreements with other tenants, types and nature of contaminants encountered, groundwater flow direction, underground utility corridors, etc.). Based on the review of the available information, past costs incurred and future costs expected to be incurred by SFIA were allocated to current and former tenants in accordance with the unique set of circumstances associated with each discrete development project. The results of the findings were presented to current and former tenants as technical basis for damage claim. Clients: Morrison & Foerster LLP and City and County of San Francisco

Former Shipyard Operations Facilities, California – Conducted supplemental subsurface investigations to evaluate extent and volume of chemically-affected soil. Developed cleanup strategy and approach for cleanup of lead- and petroleum hydrocarbon-affected soil. Managed remediation of site through case closure. Remediation included excavation and relocation of 5,000 cubic yards of lead-affected soil beneath public roadway, excavation and bioremediation of 7,400 cubic yards of petroleum hydrocarbon-affected soil and groundwater monitoring. Case was closed by DTSC and the property was redeveloped. Clients: Confidential Developer and City of Richmond Redevelopment Agency

Former Solvent Recycling Facility, California – Managed and supervised Remedial Investigation, Interim Remedial Action and Remedial Action Plan development and implementation under RWQCB Cleanup Order at former solvent recycling facility in San Jose, California. RI work scope included soil gas sampling, soil sampling, groundwater monitoring well installations and sampling, monitored natural attenuation parameter evaluation and reporting. IRA work scope included on and off site groundwater monitoring well installations and sampling, geophysical survey, underground utilities survey, UST removals, monitored natural attenuation parameter evaluation and reporting. Developed and prepared an NCP-compliant Remedial Action Plan including health risk assessment, vadose zone fate and transport modeling, groundwater fate and transport modeling, evaluation of natural attenuation data, development of target soil and groundwater cleanup goals, feasibility study, and development of proposed remedy. Remedial Action Plan was accepted by the community and the RWQCB. Implemented the remedy which included source removal and monitored natural attenuation with periodic injection of hydrogen enrichment material at downgradient locations. Client: Confidential

Nursery Facilities, California – Conducted historical review and supplemental subsurface investigations to investigate pesticide-, lead-, and petroleum hydrocarbon-affected soil and groundwater. Investigation included multi-depth discrete groundwater sampling, geophysical surveys for former fuel sources of boilers, soil sampling within greenhouses and exterior areas, and groundwater monitoring well installation and sampling. The investigation indicated that VOC-affected groundwater had affected multiple water-bearing zones beneath the site and the VOCs had originated at an off-site location(s). Developed cleanup strategy and approach for cleanup of pesticide-, lead-, and petroleum hydrocarbon-affected soil and groundwater. Prepared NCP-compliant Remedial Action Plan and participated in extensive community outreach program as part of remedial planning process. Remediation plan includes excavation and off-site disposal of pesticide-, lead-, and petroleum hydrocarbon-affected soil and groundwater monitoring. Clients: Eden Housing, Inc. and Community Housing Development Corporation of North Richmond

Pulp Mill, California – Developed Areas of Interest on large pulp mill in Humboldt County. Pulp mill is located in sensitive environment with Humboldt Bay immediately east and the Pacific Ocean to the immediate west. Investigations included cone-penetrometer testing, soil gas sampling and analysis, soil and groundwater sampling, and installation, development and sampling of multi-depth groundwater monitoring wells. Analysis of geochemical parameters was conducted to establish boundaries of freshwater-seawater intrusion and levels of background metals dissolved in groundwater. Pulp mill was sold and additional actions are pending. Client: Evergreen Pulp, Inc.

Wood Mill, California – Conducted historical research for property developer as part of environmental due diligence. Results of Phase I ESA resulted in subsurface investigations designed to investigate soil and groundwater conditions related to current or historical

operations. Investigations included soil and groundwater sampling, geophysical surveys using electromagnetic and ground penetrating radar and asbestos/lead-based paint sampling. The investigation indicated that petroleum hydrocarbon- and VOC-affected soil and groundwater is present at the site. Up to seven distinct groundwater plumes were identified on the 30-acre property. Project is on hold pending recovery of real estate market. Client: Signature Properties

Former Food Drying Facility, California – Managed and supervised Remedial Action Plan development and implementation under RWQCB SLIC Program, and provided litigation support for cost recovery at former food drying facility in Palo Alto, California. Remedial Action Plan was developed based on RI work conducted by others. Developed and prepared an NCP-compliant Remedial Action Plan including health risk assessment, vadose zone fate and transport modeling, development of target soil cleanup goals for TCE, feasibility study, and development of proposed remedy. Remedial Action Plan was accepted by the community and the RWQCB. Implemented the remedy which included source removal from interior locations through slot trenching down to 20 feet below grade. RWQCB granted no further action status for the case on the basis of the remediation results. Client: Confidential

Remediation of Dry-Cleaning Facilities in California – Developed and implemented remedial plans for cleanup of numerous dry-cleaning facilities. Developed risk-based target soil cleanup levels and negotiated acceptance of target levels with regulatory agencies. Soil remediation was conducted via selective soil removal or soil vapor extraction. Soil excavation consisted of removal of 25 to 60 in-place cubic yards of soil and confirmation sampling. Vapor extraction was conducted using one vapor extraction well to ten soil vapor extraction wells depending on site conditions. Case closure was achieved at all dry cleaning facilities following confirmation soil sampling or on the basis of vapor extraction system performance. Clients: Confidential Real Estate Investment Trusts and Property Owners

Hazardous Liquid Waste Incinerator, Michigan - Performed as onsite geologist and onsite manager for a $2.5 million field investigation and subsequent RI/FS at a liquid waste incineration plant site in Michigan. The site was number one on the Environmental Protection Agency (EPA) National Priority List. The field work consisted of drilling and sampling 175 soil borings, 40 of which were completed as groundwater monitoring wells; well development, soil gas survey, residential well sampling, geophysics, supervision of eight field personnel, coordination of drilling and sampling operations, preparation of reports and posters for presentations, and representing the company to the EPA, MDNR, and PRP's on a daily basis. Mr. Flory was onsite for 1.5 years. Client: Berlin & Farro Trust Fund

Aerospace Manufacturing Plant Closure Program, California - Managed and supervised regulatory mandated investigation and remediation at an aerospace manufacturing facility in Southern California with light and dense nonaqueous phase liquid contamination. Activities included preparing work plans for all phases of field work, performing an extensive soil gas survey, installing and monitoring multi-level semi-permanent soil gas probes, supervising

quarterly groundwater monitoring events, designing and installing a dual-completion vapor extraction wells, designing and installing a vapor extraction system for chlorinated hydrocarbons, managing remediation of vadose zone; supervising sump, clarifier, and underground fuel storage tank removals; managing hazardous and non-hazardous waste disposal, managing subcontractors, reducing data, preparing investigation and closure reports, agency negotiation and project management. Client: Confidential

Oil Field Closure, Redondo Beach, California - Managed and supervised a decommissioned oil drilling site, a pipeline run, and a crude oil processing tank farm in Southern California. Field activities consisted of conducting subsurface investigations to determine extent of hydrocarbon impacted soil and groundwater plumes, drilling in Level B protection to define formaldehyde impact to soil, supervising soil excavation activities, performing confirmation soil sampling, reducing data, preparing investigative reports, and regulatory negotiation and project management. Client: Triton Oil & Gas Corp.

Closure of Hydrocarbon Contaminated Wetlands, California - Managed and supervised a remedial investigation to determine type and extent of hydrocarbon contamination to approximately 43,000 cubic yards of fill. Fill was dumped on a wetland area under Army Corps. of Engineers jurisdiction in Northern California. Through extensive sampling and gas chromatography analysis, asphalt was determined to be the source of the hydrocarbons in the fill. Case was closed by the regulatory oversight agency. Client: City of Fairfield

RCRA Permitting Investigation, California - Performed RCRA permitting investigation for expanding Class I landfill in California. Supervised drilling and sampling of approximately 50 soil boreholes, monitoring wells, and vibrating wire piezometers. Also supervised downhole geophysics including spontaneous potential log, e-log, resistivity, gamma-gamma, caliper log and video log. Also assisted in data reduction for investigation report.
Client: Casmalia Landfill

Closure of Medical Research & Development Laboratories, California – Managed and supervised a multi-phase decommissioning and closure of medical R&D laboratories. Closure included permitted hazardous waste management areas, conditionally-authorized acid waste neutralization system, drum crusher, 1,000-gallon diesel fuel UST, three vapor scrubber systems, underground fire containment tank, process, house and portable vacuum systems, burn box lines, x-ray room, chiller water sumps, and sandblaster system. Decommissioning and assessment resulted in leaving approximately 5,000 feet of ductwork in-place. Following successful decommissioning and closure the building was demolished. Client: Varian Medical Systems, Inc.

Closure of USGS Research & Development Laboratories, California – Managed and supervised a multi-phase investigation and subsequent remediation of 200,000 square feet of R&D laboratories. Conducted extensive negotiations with U.S. Federal government. Federal government agreed to compensate client for majority of investigation and all remediation costs.

Achieved closure of the facilities through health risk-based closure plan. Worked closely with new tenant's environmental consultant in establishing cleanup goals consistent with clients and new tenants goals. Client: WSJ Properties

RI Investigation at Former Aerospace Manufacturing Facility, California – Designed and managed subsurface investigation at former General Dynamics facility. Investigation was conducted following comprehensive Phase I ESA. Subsurface investigation included assessment of soil gas, soil and groundwater. On the basis of the results of the work, several parcels of property were eliminated as suitable for redevelopment and several other parcels were identified as appropriate for redevelopment. Client: Frito-Lay, Inc.

RI Investigation at Former TNT Manufacturing Facility, California – Designed and managed subsurface investigation at former TNT, DNT and DNB manufacturing facility. Investigation was conducted following exhaustive Phase I ESA. Subsurface investigation included assessment of fill material, native soil and underlying groundwater. Work was conducted to evaluate suitability for residential development. Client: Confidential Developer

Multiple Subsurface Investigations, Various States - Developed relationship with a nationwide transportation firm to provide environmental consulting to facilities located across the United States. Activities include multi-phase subsurface investigations to define hydrocarbon impact to soil and groundwater, soil gas surveys to determine volatile organic compound impact to shallow soils, and investigation of soil impacted with virgin motor oil. Client: Penske Truck Leasing Company

Pesticide Investigation, Missouri - Conducted an onsite and offsite subsurface investigation of a pesticide manufacturing plant in Missouri. Field work consisted of drilling and installing groundwater monitoring wells and subsequent monitoring of groundwater quality. Client: Ortho-Chevron

Wood Treatment Plant Remedial Investigations, Illinois and Ohio - Supervised remedial investigations at wood treatment plants in Illinois and Ohio. Supervised drilling and installation of numerous groundwater monitoring wells, and evaluation of onsite extraction of naphthalene to assess potential for onsite product recovery. Client: Confidential

Underground Fuel Storage Tank Removals, Various States - Supervised field activities and prepared closure reports for over 20 underground fuel storage tank removals for national telecommunications firm as part of due diligence for property transfers. The sites were located in various states and cities across New England and the eastern United States. Client: MCI Communications

RI/FS Investigation, Nebraska - Supervised drilling and sampling of numerous groundwater monitoring wells at federal munitions plant in Nebraska during USEPA mandated RI/FS. Groundwater monitoring wells in excess of 180 feet deep were drilled using mud rotary

drilling techniques. Also conducted extensive groundwater testing at the Superfund site. Client: Confidential

Remediation Pilot Tests, California - Conducted soil vapor extraction and groundwater sparging pilot tests. Developed testing protocol used in tests, supervised field testing, reduced data generated during pilot testing, and prepared reports presenting results of pilot testing. Clients: Kilpatricks Bakery, Penske Truck Leasing Company

SAFETY TRAINING

Health and Safety training courses following EPA and OSHA requirements. Courses included training in physical, chemical, and toxicological properties of hazardous materials; hazard evaluation and control; selection and use of personal protective equipment; sampling and monitoring techniques and equipment; site entrance and decontamination procedures; and safety plan development. Mr. Flory has also completed Supervisor Training and 8-hour Level B Training.

MEMBERSHIPS

National Ground Water Association
Association of Groundwater Scientists and Engineers
Groundwater Resources Association

DISTRIBUTION

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6701, 6705, and 6707 SHELLMOUND STREET
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JANUARY 17, 2014

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