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A Report Prepared For:

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SUBSURFACE INVESTIGATION REPORT
4600-4700 COLISEUM WAY
OAKLAND, CALIFORNIA

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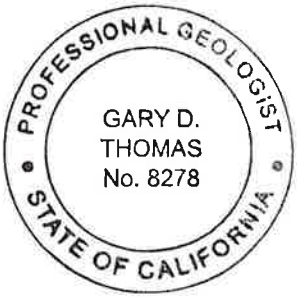

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1.0 INTRODUCTION

This report has been prepared by PES Environmental, Inc. (PES), on behalf of Mr. John Weber to summarize the results of our recently conducted subsurface soil and groundwater investigations at 4600-4700 Coliseum Way, Oakland, California (the Site). The Site location is shown on Plate 1. The investigation activities described herein were conducted in accordance with PES' proposals dated June 6, 2008 (Reference No. 1148.001.01.P03) and July 11, 2008 (Reference No. 1148.001.01.P04).

The purpose of the PES investigations was to characterize the nature and extent of soil and groundwater impacts discovered at the Site during the January 2008 subsurface investigation conducted by PIERS Environmental Services, Inc. (PIERS, 2008). Previous investigations indicated other portion of the Site did not require additional investigations (Kleinfelder, Inc. [Kleinfelder], 2002; W.A. Craig, Inc. [W.A. Craig], 2003; and AEI Consultants [AEI], 2007).

This report summarizes background information, discusses the methods and results of the recently completed investigations and presents conclusions and recommendations based upon the findings. Our conclusions and recommendations are presented in Section 5.0 below.

2.0 BACKGROUND INFORMATION

2.1 Site Description

The 2.7-acre Site is comprised of two adjacent rectangular parcels with addresses of 4600 and 4700 Coliseum Way that are identified by Alameda County Assessor's Parcel Numbers (APN) 34-2293-3 and 34-2293-4-2, respectively.

Currently buildings at the Site consist of two smaller metal-framed warehouse buildings in the western portion of the Site, a large warehouse building in the central portion of the Site, and a small shed near the northeastern property boundary (Plate 2). The Site is located in a commercial/industrial area within the City of Oakland and County of Alameda, California. As shown on Plates 1 and 2, the Site is bounded to the northeast by an abandoned railroad spur and further northeast by a property owned by Learner Investment Company, to the southeast by Superior Plaster Casting Property, to the southwest by Coliseum Way, and to the northwest by 46th Avenue. Vehicle access to the property is via Coliseum Way.

According to the United States Geological Survey (USGS) *Oakland East, California* Quadrangle 7.5-minute series topographic map, the Site is situated at an elevation of approximately 10 feet above mean sea level. The topography on the Site and in the vicinity is relatively flat. The closest water body is San Francisco Bay, located approximately ½-mile to the southwest.

2.2 Site History

According to a Phase I Environmental Site Assessment (ESA) prepared by AEI Consultants (AEI) in October 2007 (AEI, 2007), the metal-framed warehouses in the western portion of the Site were constructed between 1912 and 1925 for use as storage facilities for feed and coal. According to AEI, these warehouses have historically been used for various operations including wooden molding manufacturing, insulation manufacturing, and cabinet making. Currently, the warehouses are being used for storage of miscellaneous equipment and construction supplies (ERAS Environmental, Inc. [ERAS], 2007a). The abandoned railroad spur shown on Plate 2 was present at the Site from at least 1925 through 1969.

The large warehouse building in the central portion of the Site was constructed in 1968 for use as a metal manufacturing facility by Bostrom Bergen Metal Manufacturing (Bostrom) (AEI, 2007). Bostrom occupied the Site, including the two metal-framed warehouses from at least 1969 through 2000. The large warehouse is currently occupied by LVI Environmental Services (ERAS, 2007a). LVI is a demolition and environmental remediation services company.

2.3 Local Geology and Hydrogeology

According to ERAS, the Site is underlain by "fine-grained alluvial sediment that represents distal deposits of alluvial fans that were deposited by rivers draining upland surfaces" (ERAS, 2007a). Also beneath the Site are clay layers referred to as Bay Mud. Several hundred feet of Bay Mud deposits are likely present in the vicinity of the Site. Beneath the Bay Muds are sedimentary and metamorphic rocks of the Jurassic-aged Franciscan Formation (ERAS, 2007a). Groundwater was encountered at depths ranging between 4 and 15 feet below ground surface (bgs) during an on-Site investigation conducted by PIERS Environmental Services, Inc. (PIERS) in January 2008 (PIERS, 2008). The PIERS investigation is discussed in Section 2.4. Groundwater flow in the vicinity of the Site is generally toward the south (ERAS, 2007a).

As discussed in Section 2.5 below, shallow groundwater in the vicinity of the Site is impacted by regional total petroleum hydrocarbon (TPH) and volatile organic compound (VOC) plumes that are currently being addressed under the oversight of Alameda County Department of Environmental Health (ACDEH). Studies conducted on nearby properties indicate that the underlying groundwater is brackish (Harding ESE, Inc. [Harding ESE], 2002; LFR, Inc. [LFR], 2008). Therefore, groundwater in this area is not considered a drinking water source.

2.4 Summary of Previous On-Site Environmental Investigations

2.4.1 Phase I ESA by Kleinfelder

In 2002, Kleinfelder conducted a Phase I ESA at the Site (Kleinfelder, 2002). Kleinfelder's site description and historical evaluation of the subject Site are similar to those presented

above. Kleinfelder indicated their assessment revealed the following Recognized Environmental Conditions (RECs):

- "A rail spur terminated inside the property, used as recently as 1959, for the shipment of dry grains";
- "Minor oil stains were observed on the concrete in various locations but appear to have been isolated incidents and did not indicate a re-occurring event. Additionally, soil that was stained red from non-lead based paint over-spray was observed in the metal painting area at the rear of the site";
- "The primary concern associated with surrounding areas is impacted ground water quality from past discharges at up-gradient properties, including sodium dichromate spill and methyl-tert-butyl ether (MTBE) reported in ground water a the site at 5115 East 8th Street";
- "The vacant lot located at 745 50th Avenue was observed to contain corroding, leaking, unlabeled drums and other containers of unknown waste fluids"; and
- "Bostrom-Bergen was cited for improperly disposing of waste paint and paint thinner on the ground in 1986 and 1987 by Alameda County. Per Alameda County's request, Bostrom-Bergen completed a Corrective Actions Plan to correct this violation".

Kleinfelder recommended that the concrete stains be properly cleaned and stained soils be properly removed from the Site.

2.4.2 Excavation of Red-Stained Soils

Based on the results of Kleinfelder's Phase I ESA (Kleinfelder, 2002), W.A. Craig collected four surface soil samples (samples S1 through S4) in the red-stained area at the rear of the property. The results of this sampling are presented in W.A. Craig's *Soil Sample Results* letter report dated May 22, 2003 (W.A. Craig, 2003). The samples were analyzed for cadmium, chromium, lead, nickel, and zinc. Maximum detected concentrations of these constituents were as follows: cadmium, 8.3 milligrams per kilogram (mg/kg); chromium, 1,100 mg/kg; lead 4,500 mg/kg; nickel, 130 mg/kg; and zinc, 18,000 mg/kg.

Based on these results, Controlled Environmental Services (CES) excavated the area of red-stained soils to approximately 12 inches bgs on June 12 and 18, 2003 (Kleinfelder, 2003). Approximately 226 tons of California hazardous soil and 159 tons of RCRA hazardous soil was removed from an area measuring 140 feet by 40 feet. Following excavation activities, Kleinfelder collected four confirmation soil samples. The samples were analyzed for total lead, which ranged in concentration from 42 to 130 mg/kg (Kleinfelder, 2003). The lead results were all below Risk Based Screening Level established by the Regional Water Quality Control Board.

2.4.3 Additional Phase I ESAs

AEI conducted a Phase I ESA at the Site in 2007 (AEI, 2007). AEI indicated their assessment revealed the following RECs:

- The use of the subject property for industrial purposed since at least 1925;
- The historical presence of railroad spurs on or near the Site;
- The presence of a gasoline tank shown on Sanborn maps between 1953 and 1969; and
- "The adjacent properties to the north, northeast, east, and southeast have been grouped together as a common source of historical releases that occurred on each of the four properties, resulting in a comingled plume".

AEI recommended a subsurface soil and/or groundwater investigation to evaluate the identified RECs.

In 2007, ERAS also conducted a Phase I ESA at the Site (ERAS, 2007a). ERAS prepared an addendum to their Phase I ESA report (ERAS, 2007b). ERAS' Phase I ESA and addendum did not contain any additional significant findings regarding the subject property.

2.4.4 PIERS January 2008 Phase II Investigation

In January 2008, based on the investigation and recommendations of AEI, PIERS conducted a soil and groundwater investigation at the Site that involved advancing five borings (i.e., borings B1 through B5, see Plate 2 for locations) and collecting a four point composite sample along the former railroad spur (i.e., composite sample from locations S1A through S1D, see Plate 2 for locations). The purposes of borings B1 through B5 were as follows (PIERS, 2008):

- B1 through B3 were located in the northeastern portion of the Site to investigate potential off-Site sources "that could cause contamination to migrate in groundwater beneath the Property"; and
- Borings B4 and B5 were located at and adjacent to the location of the former gasoline tank location shown on historical Sanborn maps.

A copy of PIERS *Limited Phase II Site Investigation Report* is included in Appendix A. Selected grab groundwater and soil sample results from borings B1 through B5 are posted on Plates 3 and 4, respectively. As shown on Plate 4, the VOCs 1,1,1-trichloroethane (1,1,1-TCA) and its degradation products were detected in groundwater in the borings advanced in the northeastern portion of the Site. The highest concentrations in groundwater (1,1,1-TCA detected at 1,200 micrograms per liter [μg/L]) were encountered in boring B1

located in the eastern corner of the Site. Lower concentrations of 1,1,1-TCA were detected in the soil sample collected from boring B1 (Plate 3).

Very low concentrations of toluene were detected in the groundwater samples collected from the location of the former gasoline tank shown on historical Sanborn maps (see table included in Appendix A). Hydrocarbons and VOCs were not detected in the soil samples collected from these borings. Total petroleum hydrocarbons quantified as diesel and motor oil (TPHd and TPHmo) were detected at concentrations of 9.9 and 84 mg/kg in the composite sample collected along the former railroad spur; VOCs and polychlorinated biphenyls (PCBs) were not detected in this sample.

2.5 Summary of Environmental Conditions on Adjacent Properties

Pertinent data from environmental investigations conducted on the adjacent properties discussed in Sections 2.5.1 through 2.5.4 are included in Appendix B.

2.5.1 Superior Plaster Castings Property

This property is located southeast and immediately adjacent to the subject Site (Plate 1) and appears to be hydraulically down- and cross-gradient from the Site with respect to the direction of groundwater flow. The primary contaminants detected at this property include petroleum hydrocarbons (total petroleum hydrocarbons quantified as gasoline [TPHg] and TPHd, respectively), xylenes, and VOCs. VOCs present on the Superior Plaster Castings Property appear to be limited to chlorobenzene (CB), 1,2-dichlorobenzene (1,2-DCB), 1,3-DCB and 1,4-DCB. 1,1,1-TCA and its breakdown products were not detected in groundwater samples collected on this property (ERAS, 2000).

2.5.2 PG&E Property

This property is located southeast from the subject Site and immediately adjacent to the Superior Plaster Castings Property (Plate 1) and appears to be hydraulically down- and cross-gradient from the subject property with respect to the direction of groundwater flow. This property is the location of a general construction yard and a former gas holder tank that was removed in May 1990. Seven groundwater monitoring wells are located on the PG&E Property. Groundwater flows towards the south, which is in general agreement with the other properties in the area. The wells were sampled in November 2007 and VOCs detected were primarily CB and DCBs. Fuel hydrocarbons are also present in the groundwater at the PG&E Property. In April 2007, 1,1,1-TCA was detected in one groundwater sample (OW-1) but at a low concentration of 0.6 μg/L and 1,1-dichloroethane (1,1-DCA) was also detected at a maximum concentration of 12 μg/L (Geomatrix Consultants, Inc. [Geomatrix], 2007).

A workplan was submitted by PG&E to Alameda County on November 16, 2007 to conduct additional assessment of the petroleum hydrocarbons, CB and DCB contamination in groundwater. The status of that proposed work is not known at this time.

2.5.3 Former AAA Equipment Company

This property is located east-southeast of the subject Site and appears to be hydraulically cross-gradient from the Site (Plate 1) with respect to the direction of groundwater flow. TPHd and TPHmo have been detected on the property. Polynuclear aromatics (PNAs) and PCBs have also been detected on this property. VOCs detected in soil and groundwater appears to be limited to CB and DCBs (Harding ESE, 2002).

LFR submitted a *Workplan for Assessment of Dichlorobenzene in Soil and Groundwater* dated October 30, 2007 for this property (745 50th Street) and the Learner Investment Company Property at 768 46th Avenue.

2.5.4 Learner Investment Company Property

This property is located north and northeast of the subject Site and appears to be hydraulically up-gradient from the Site (Plate 1) with respect to the direction of groundwater flow. This property is being actively investigated and is under oversight by Alameda County Department of Health (ACDEH). Previous sampling conducted on this property indicates that it is affected by petroleum hydrocarbons (TPHd and TPHmo), PCBs, benzene, toluene, ethylbenzene, and xylenes (BTEX), and metals.

The most recent investigation at this property was conducted by LFR in April 2008 and involved advancing 12 borings (LFR, 2008). Soil samples at depths ranging from 1 to 5 feet bgs were collected from each boring and grab groundwater samples were collected from four borings. Four of the borings (LP-4, LP-5, LP-6 and LP-13) were located near the boundary northeast of the subject Site; grab groundwater samples were collected from borings LP-6 and LP-13. The summary below focuses on the results these four borings.

The soil samples collected from borings LP-4, LP-5, LP-6 and LP-13 were analyzed for TPHd, TPHmo, VOCs, metals, and PCBs and the groundwater samples were analyzed for TPHd, TPHmo, VOCs, and metals. In summary, TPHd, TPHmo, PCBs, acetone and methylene chloride were detected in the soil samples.

LFR indicated that most of the metals concentrations in soil were within range of naturally occurring metals concentrations in the San Francisco Bay Area. However, according to LFR, six metals (arsenic, cadmium, copper, lead, nickel, and zinc) were detected at elevated concentrations. The maximum concentrations of these metals in the samples collected from borings LP-4, LP-5, LP-6 and LP-13 were arsenic at 12 mg/kg, cadmium at 10 mg/kg, copper at 100 mg/kg, lead at 1,000 mg/kg, and zinc at 2,800 mg/kg.

TPHd, TPHmo, 1,1-DCA, 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene (cis-1,2-DCE), and bromodichloromethane were detected in the grab groundwater samples.

3.0 SUBSURFACE INVESTIGATIONS

The following sections present the field activities and sampling methods (Section 3.1) and analytical methods (Section 3.2) for the subsurface investigations conducted by PES on June 27 and July 31, 2008.

3.1 Field Activities and Sampling Methods

The objective of PES' initial subsurface investigation conducted on June 27, 2008 was to:

- Provide a better understanding of soil and groundwater conditions in the eastern portion of the Site based on information provided in prior site assessments;
- Verify the results of the previous sampling conducted in the eastern portion of the Site; and
- Characterize the nature and extent of VOCs detected previously in soil and groundwater in the eastern portion of the Site.

During the investigation conducted in June 2008, PES advanced eight borings (B-1 through B-8; Plate 2) in the northeastern portion of the Site. A summary of the samples collected from these borings and the analyses performed on the samples is provided in Table 1.

Based on the results of the June 26, 2008 investigation, PES conducted a second phase of work at the Site on July, 31 2008. The objective of this additional investigation was to:

- Assess soil conditions in the immediate vicinity of a storage shed to evaluate whether soil beneath and in the vicinity of the shed is the source of VOC-affected groundwater; and
- Define the extent of groundwater north (up-gradient), west (cross-gradient), and south (down-gradient) of the shed.

During the second phase of work, PES completed seven borings (B-9 through B-15; Plate 2). A summary of the samples collected from these borings and the analyses performed on the samples is also provided in Table 1.

The drilling and sampling activities during both phases of work were conducted with oversight by a licensed California Professional Geologist.

3.1.1 Pre-Field Activities

Drilling permits were obtained from the Alameda County Public Works Agency (ACPW) prior to both phases of drilling. Copies of the permits are included in Appendix C. PES contacted

Underground Service Alert more than 48 hours before beginning drilling activities to locate and mark utilities at the Site and C. Cruz Sub-Surface Locators, Inc. (C. Cruz) of Milpitas, California cleared the sampling locations for subsurface utilities. Additionally, PES coordinated with Vironex, Inc. (Vironex) of Pacheco, California, a licensed drilling contractor possessing a valid C-57 water well contractor's license issued by the State of California, to schedule the sampling events. A Site-specific Health and Safety Plan that complied with applicable federal, California Occupational Safety and Health Administration (OSHA), and Title 29 CFR 1910.120 guidelines was prepared by PES for the sampling activities.

3.1.2 Sampling Methods

With the exception of boring B-12, Vironex utilized a direct-push drilling rig to advance the borings to the desired depth, which ranged between 8 and 19 feet bgs. Borings B-2, B-3, and B-9 (advanced for groundwater sampling only) were advanced using single-walled direct-push tooling with a displacement point attached to the bottom of the drive casing. The purpose of the displacement point is to prevent soil from entering the drive casing as it is advanced to the desired depth using hydraulic forces. Once the desired depth was reached, the drive casing was pulled back to separate the displacement point from the drive casing. Grab groundwater sampling was then performed, as described below.

Continuous soil cores were collected from the remaining direct-push borings, which were advanced using single-walled direct-push tooling equipped with a clear acetate liner. Access to boring B-12 was limited because it was located inside the shed (Plate 2). Therefore, this boring was advanced using hand-augering equipment and soil samples were collected using a hand-held sampling device equipped with a slide hammer. Soil samples analyzed for VOCs (including MTBE and fuel oxygenates) were collected with an Encore™ sampling device in accordance with U.S. Environmental Protection Agency (USEPA) Method 5035.

PES observed the borehole drilling and prepared a lithologic log for the continuously cored borings using the Unified Soil Classification System (USCS). The soil cores were screened for VOCs via headspace analysis using a photoionization detector (PID). The PID readings were recorded on the lithologic logs. Lithologic logs are presented in Appendix D.

To facilitate groundwater sampling, a 1-inch diameter schedule 40 polyvinyl chloride (PVC) well casing fitted with a 10-foot section of factory-slotted PVC well screen was lowered into the borings selected for groundwater sample collection. Groundwater samples were collected from the PVC casing with a new disposable bailer. The samples were decanted into appropriate pre-cleaned, laboratory-provided sample containers.

As indicated on Table 1, boring B1 was sampled for selected monitored natural attenuation (MNA) parameters. Therefore, groundwater within the boring was purged and a multi-parameter instrument was used to monitor temperature, pH, conductivity, turbidity, dissolved oxygen (DO), and oxidation reduction potential (ORP) to assure that stable readings were obtained prior to collecting the samples analyzed for MNA parameters and VOCs.

Sample containers were labeled to indicate project location, job number, boring number, sample number, and time and date collected. The samples were immediately placed in a thermally-insulated cooler containing ice. The samples were picked up by a courier who transported them under chain of custody protocol to Curtis & Tompkins, Ltd. (C&T) in Berkeley, California, which is a California state-certified laboratory for chemical analysis performed. The laboratory analytical reports provided by C&T are presented in Appendix E.

Downhole drilling and sampling equipment were cleaned via high pressure, hot water wash prior to use and between borings. Upon completion of sampling activities, each borehole was grouted to the surface with cement grout under the oversight of an ACPW inspector.

3.2 Analytical Methods

Soil and groundwater samples analyzed for VOCs (including MTBE and fuel oxygenates) by USEPA Test Method 8260B were delivered to C&T under chain-of-custody protocol. In addition, C&T analyzed the MNA groundwater samples collected from boring B-1 using the following methods:

- Total organic carbon (TOC) by USEPA Test Method 415.2;
- Nitrate/nitrite by USEPA Test Method 300.0;
- Chloride and sulfate by USEPA Test Method 300.0; and
- Methane/ethane/ethene using modified Test Method RSK-175.

The soil samples collected from borings B-1 and B-8 for analysis of physical parameters were delivered to PTS Laboratories, Inc. (PTS) under chain-of-custody protocol and analyzed using the following test methods:

- Dry bulk density by Test Method API RP40;
- Water-filled porosity, air-filled porosity, and total porosity by Test Method API RP40; and
- TOC and fraction organic carbon by the Walkley-Black Test Method.

The laboratory analytical report provided by PTS is presented in Appendix F.

4.0 RESULTS OF SUBSURFACE INVESTIGATIONS

The following sections present the results of the investigations including a discussion of the subsurface conditions (Section 4.1) and the soil and groundwater analytical results (Section 4.2).

Analytical results for soil matrix and groundwater samples are presented in Tables 2 and 3, respectively. The C&T laboratory analytical reports and chain of custody forms are presented in Appendix E. The MNA parameter results are presented in Table 4 and Appendix E and the physical parameter results are included in Appendix F. Selected soil matrix and groundwater sampling results are posted on Plates 3 and 4, respectively. A discussion of the results from PES' investigations and previous investigations is presented in Section 5.0.

The soil results presented on Table 2 were compared to the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) risk-based Environmental Screening Level (ESL) concentrations for shallow soil (less than 3 meters [9.84 feet] bgs) in a commercial/industrial setting where groundwater is not a current or potential drinking water source. ESL concentrations for soil and groundwater are provided in the RWQCB's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* (RWQCB, 2008). The ESLs were developed by the RWQCB to be protective of human health and the environment for potentially complete exposure pathways. The groundwater results presented on Table 3 were compared to the RWQCB's risk-based ESL concentrations for evaluation of potential vapor intrusion concerns (RWQCB, 2008). The soil and groundwater ESLs discussed above are presented in Tables B and E-1, respectively, of the referenced document.

4.1 Subsurface Conditions

In general, soil beneath the portion of the Site investigated by PES consists of dark grayish brown to dark brown gravelly silts to a depth ranging between 1.5 to 3 feet bgs. Soil below this material generally consists of a yellowish brown to very dark gray clay, clay with silt, or silty clay to 19 feet bgs, the total depth investigated. This material contains discontinuous, approximately 0.5-foot thick interbeds of sand and clayey sand and 1- to 3-foot thick interbeds of clay with gravel and gravelly clay. Wet soil was first encountered at depths ranging between 9 and 12 feet bgs (see lithologic logs in Appendix D). Groundwater may be under confining conditions because water stabilized at depths between 7 and 8 feet bgs.

4.2 Laboratory Analytical Results

4.2.1 Soil Results

As shown in Table 2 and Plate 3, 1,1-dichloroethene (1,1-DCE), 1,1-DCA, and 1,1,1-TCA were the only VOCs detected in soil. In summary:

- 1,1-DCE was detected in 3 of 21 soil samples at concentrations ranging from 4.9 micrograms per kilogram (μg/kg, 6 to 6.5 feet bgs sample from boring B-4) to 31 μg/kg (6 to 6.5 feet bgs sample from boring B-15);

- 1,1-DCA was detected in 7 of 21 soil samples at concentrations ranging from 22 µg/kg (2.5 to 3 feet bgs sample from boring B-14) to 2,500 µg/kg (2.5 to 3 feet bgs sample from boring B-12); and

- 1,1,1-TCA was detected in 7 of 21 soil samples at concentrations ranging from 5.9 µg/kg (2.5 to 3 feet bgs sample from boring B-4) to 11,000 µg/kg (2.5 to 3 feet bgs sample from boring B-12).

Only two samples contained VOC concentrations above the applicable ESL: 1,1-DCA and 1,1,1-TCA in the 2.5 to 3 feet bgs sample from boring B-12 (See Table 2 and Plate 3).

Physical parameter analytical results are presented in Appendix F.

4.2.2 Groundwater Results

In all, 12 different VOCs were detected in the grab groundwater samples (Table 3). As indicated on Table 3 and Plate 4, the highest concentrations in groundwater were found near the shed in boring B-4 (i.e., 1,1-DCE at 1,000 µg/L, 1,1-DCA at 230 µg/L, and 1,1,1-TCA at 540 µg/L) and west of the shed in boring B-10 (i.e., acetone at 610 µg/L, TCE at 120 µg/L, ethylbenzene at 340 µg/L, and xylenes at 2,200 µg/L). None of these VOC detections, however, exceed applicable vapor intrusion ESLs.

MNA parameter analytical results are presented in Table 4 and Appendix E. The MNA parameters suggest natural degradation of 1,1,1-TCA and 1,1,2-TCA dissolved in groundwater is occurring.

5.0 DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS

5.1 Discussion

Previous investigations conducted at the Site by others indicated that environmental conditions in the northeast portion of the property warranted additional investigation. The previous investigations also indicated the other portions of the Site did not require such additional investigation.

PES advanced and sampled a total of 15 borings at and around the east-northeastern portion of the Site in June and July 2008. Soil samples were collected from 10 borings and grab groundwater samples were collected from 8 borings (Table 1). The objectives of the investigations were to characterize the soil and groundwater conditions in the east-northeastern portion of the subject property and to determine what, if any, additional work is recommended at the site relating to such conditions.

As shown on Plate 3, the only VOCs detected in soil are 1,1-DCE, 1,1-DCA and 1,1,1-TCA. The highest concentrations of these compounds were detected in the vicinity of the shed

(Plate 3). As discussed in Section 4.2, the concentrations of 1,1-DCA and 1,1,1-TCA in the 2.5 to 3 feet bgs sample collected directly beneath the shed (boring B-12) are the only detections above applicable ESL values. Testing revealed, however, that these impacts are limited to shallow soils as detections of the compounds in the 6-6.5 feet bgs sample beneath the shed are well below their respective ESL values. As also shown on Plate 3, relatively low concentrations of VOCs were detected soil in the borings immediately outside the shed (i.e., borings B-4, B-13, B-14, and B-15). VOCs were not detected at or above the laboratory reporting limits in any of the soil samples collected by PES from borings located further away from the shed.

The TPH-related VOCs detected at low concentrations in groundwater (i.e., toluene, ethylbenzene, xylenes, DIPE and isopropylbenzene, Table 3) were not detected in soil samples collected during PES' investigations or PIERS' investigation.

Similar to soil conditions, the highest concentrations of VOCs (specifically 1,1,1-TCA, 1,1-DCA and their associated degradation products) detected in groundwater were in the vicinity of the shed (Plate 4). During PIERS January 2008 investigation, the highest VOC concentrations were detected in boring B1, which was advanced near the northeastern corner of the Site (Plate 4). Co-located boring B-1 was advanced during PES' June 2008 investigation to verity the sampling results from boring B1. However, as indicated on Table 3 and Plate 4, the concentrations of VOCs detected in the groundwater sample collected from boring B-1 were much lower. None of the detected groundwater concentrations during PES' or PIERS investigations are above potential vapor intrusion ESL values developed for commercial properties. Additionally, concentrations of VOCs in groundwater in samples collected from down-gradient borings B-1 and B-2 were very low. This finding suggests the VOC-affected groundwater is not likely to have impacted down-gradient properties.

The MNA parameter results for the groundwater samples collected from boring B-1 suggest that groundwater beneath the Site exhibits favorable conditions for natural attenuation of VOCs by reductive dehalogenation. The following evidence supports this conclusion:

- Dissolved oxygen at 0.27 mg/L: Concentrations at or below 0.5 mg/L are considered favorable to reductive dehalogenation;
- ORP at -238.3 millivolts (mV): Measurements below 50 mV are considered favorable to reductive dehalogenation;
- Nitrate at 0.09 mg/L: Nitrate concentrations below 1.0 mg/L are considered favorable to reductive dehalogenation;
- Methane at 0.036 mg/L: The presence of methane suggests methanogenesis may be occurring in the groundwater resulting in reductive dehalogenation; and
- Chloride at 35 mg/L: Chloride is the final product of halogenated solvent reduction.

As discussed in Section 2.0, regional TPH groundwater plumes exist in the vicinity of the Site. Based on the absence or low concentrations (i.e., TPHd and TPHmo in the composite sample collected during PIERS investigation) of TPH constituents in the soil samples collected at the Site and the presence of the regional plumes, the low concentrations of TPH-related VOCs in Site groundwater is attributed to off-Site sources.

5.2 Conclusions

Based on the results of the soil and groundwater investigations conducted at the subject property, PES concludes the following:

- The results of previous investigations performed at the subject property indicate the area of potential environmental concern at the property is limited to the eastern-northeastern portion of the Site;
- The results of previous investigations performed at the subject property indicate the constituents of potential concern are limited to VOCs, primarily 1,1,1-TCA and its degradation products;
- Soil beneath properties in the vicinity of the subject property has been impacted by metals, petroleum hydrocarbons, PCBs, and petroleum hydrocarbon-related constituents from historic activities conducted at those off-site locations;
- Groundwater in the vicinity of the Site has been impacted by releases of petroleum hydrocarbons and VOCs, primarily petroleum hydrocarbon-related constituents such as BTEX and isomers of dichlorobenzene from historic activities conducted at those off-site locations;
- The off-site properties discussed in this report are all under regulatory oversight from ACDEH;
- Shallow soil beneath the on-Site shed has been impacted with elevated levels of 1,1,1 TCA and 1,1-DCA, a breakdown product of 1,1,1-TCA. Based on the results of the soil sample analyses, other VOCs detected in soil in the vicinity of the shed are present at relatively low levels, each of which is below applicable screening levels;
- The lateral and vertical extent of VOC-impacts to soil has been defined and the area of concern is limited to shallow soil (upper 6 feet) beneath the footprint of the shed;
- The groundwater sampling results suggest that portions of the groundwater underlying the subject property has been affected by off-Site releases of petroleum hydrocarbon-related constituents (e.g., toluene, xylenes and DIPE, a fuel oxygenate), although at concentrations below levels of concern;
- Groundwater beneath the subject property has been impacted by 1,1,1-TCA and its degradation products. The maximum concentrations of 1,1,1-TCA and degradation

products are orders of magnitude lower than the respective ESLs developed by the RWQCB for vapor intrusion concerns at commercial/industrial properties where underlying groundwater is not considered a drinking water source;

- Groundwater conditions beneath the subject property appear to be conducive to degradation of 1,1,1-TCA and its degradation products and based on the presence of 1,1,1-TCA and its degradation products in groundwater, natural degradation of these VOCs is occurring; and

- On the basis of the grab groundwater sampling results, the lateral extent of the 1,1,1-TCA and its degradation products impacts in groundwater has been defined and appear to be limited to the subject property.

5.3 Recommendations

Based on the results of the investigations conducted on the subject property, PES provides the following recommendations:

- The results of the soil and groundwater investigations conducted on the subject property should be submitted to ACDEH for review and comment;

- A plan for remediation addressing on-Site VOC-affected soil beneath the shed and on-Site VOC-affected groundwater should be prepared and submitted to ACDEH for review and approval;

- The remedial plan should be implemented and the methods and results of the remedial action should be documented in a report to be submitted to ACDEH; and

- Case closure should be requested following successful implementation of the remedial action.

6.0 REFERENCES

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TABLES

Table 1
Summary of Analyses Performed on Soil and Groundwater Samples
4600-4700 Coliseum Way Site
Oakland, California

Boring Location	Sample Identification	Sample Depth (ft bgs)	Sample Date	Soil Analyses		Grab Groundwater Analyses
				VOCs plus MTBE & gasoline oxygenates	Physical Parameters[1]	
B-1	B-1-2.5'-3'	2.5-3	6/27/2008	X		N/A
	B-1-3.5'-4'	3.5-4	6/27/2008		X	N/A
	B-1-7.5'-8'	7.5-8	6/27/2008	X		N/A
	B-1-W	5-15	6/27/2008	N/A	N/A	VOCs plus MTBE & gasoline oxygenates, MNA parameters[2]
B-2	B-2-W	5-15	6/27/2008	N/A	N/A	VOCs plus MTBE & gasoline oxygenates
B-3	B-3-W	5-15	6/27/2008	N/A	N/A	VOCs plus MTBE & gasoline oxygenates
B-4	B-4-2.5'-3'	2.5-3	6/27/2008	X		N/A
	B-4-6'-6.5'	6-6.5	6/27/2008	X		N/A
	B-4-W	5-15	6/27/2008	N/A	N/A	VOCs plus MTBE & gasoline oxygenates
B-5	B-5-2.5'-3'	2.5-3	6/27/2008	X		N/A
	B-5-6'-6.5'	6-6.5	6/27/2008	X		N/A
B-6	B-6-2.5'-3'	2.5-3	6/27/2008	X		N/A
	B-6-6'-6.5'	6-6.5	6/27/2008	X		N/A
	B-6-W	5-15	6/27/2008	N/A	N/A	VOCs plus MTBE & gasoline oxygenates
B-7	B-7-2.5'-3'	2.5-3	6/27/2008	X		N/A
	B-7-6'-6.5'	6-6.5	6/27/2008	X		N/A
B-8	B-8-2.5'-3'	2.5-3	6/27/2008	X		N/A
	B-8-3'-3.5'	3-3.5	6/27/2008		X	N/A
	B-8-6'-6.5'	6-6.5	6/27/2008	X		N/A
B-9	B-9-W	9-19	7/31/2008	N/A	N/A	VOCs plus MTBE & gasoline oxygenates
B-10	B-10-W	6-16	7/31/2008	N/A	N/A	VOCs plus MTBE & gasoline oxygenates
B-11	B-11-W	6-16	7/31/2008	N/A	N/A	VOCs plus MTBE & gasoline oxygenates
B-12	B-12-1-1.5	1-1.5	7/31/2008	X		N/A
	B-12-2.5-3	2.5-3	7/31/2008	X		N/A
	B-12-6-6.5	6-6.5	7/31/2008	X		N/A
B-13	B-13-2.5-3	2.5-3	7/31/2008	X		N/A
	B-13-6-6.5	6-6.5	7/31/2008	X		N/A
B-14	B-14-2.5-3	2.5-3	7/31/2008	X		N/A
	B-14-6-6.5	6-6.5	7/31/2008	X		N/A
B-15	B-15-2.5-3	2.5-3	7/31/2008	X		N/A
	B-15-6-6.5	6-6.5	7/31/2008	X		N/A

Notes:

ft bgs = Feet below ground surface
N/A = Not applicable
MTBE = Methyl-tert-butyl ether
VOCs = Volatile organic compounds

[1] Physical parameters include dry bulk density, total porosity, water-filled porosity, air-filled porosity, total organic carbon (TOC), and fraction organic carbon

[2] Monitored natural attenuation (MNA) parameters include oxidation reduction potential (ORP), TOC, dissolved oxygen, nitrate/nitrite as nitrogen, sulfate, chloride, methane, ethane, and ethene.

Table 2
Volatile Organic Compounds in Soil
4600-4700 Coliseum Way Site
Oakland, California

Boring Identification	Sample Identification	Sample Depth (Feet bgs)	Sample Date	1,1- DCE (µg/kg)	1,1- DCA (µg/kg)	1,1,1- TCA (µg/kg)	Other VOCs
B-1	B-1-2.5'-3'	2.5-3	6/27/2008	ND (4.7)	ND (4.7)	ND (4.7)	All ND
B-1	B-1-7.5'-8'	7.5-8	6/27/2008	ND (5.2)	ND (5.2)	ND (5.2)	All ND
B-4	B-4-2.5'-3'	2.5-3	6/27/2008	ND (5.3)	**44**	**5.9**	All ND
B-4	B-4-6'-6.5'	6-6.5	6/27/2008	**4.9**	**69**	**14**	All ND
B-5	B-5-2.5'-3'	2.5-3	6/27/2008	ND (4.7)	ND (4.7)	ND (4.7)	All ND
B-5	B-5-6'-6.5'	6-6.5	6/27/2008	ND (4.9)	ND (4.9)	ND (4.9)	All ND
B-6	B-6-2.5'-3'	2.5-3	6/27/2008	ND (5.3)	ND (5.3)	ND (5.3)	All ND
B-6	B-6-6'-6.5'	6-6.5	6/27/2008	ND (5.0)	ND (5.0)	ND (5.0)	All ND
B-7	B-7-2.5'-3'	2.5-3	6/27/2008	ND (5.6)	ND (5.6)	ND (5.6)	All ND
B-7	B-7-6'-6.5'	6-6.5	6/27/2008	ND (4.4)	ND (4.4)	ND (4.4)	All ND
B-8	B-8-2.5'-3'	2.5-3	6/27/2008	ND (5.1)	ND (5.1)	ND (5.1)	All ND
B-8	B-8-6'-6.5'	6-6.5	6/27/2008	ND (4.8)	ND (4.8)	ND (4.8)	All ND
B-12	B-12-1-1.5	1-1.5	7/31/2008	ND (5,000)	ND (5,000)	ND (5,000)	All ND
B-12	B-12-2.5-3	2.5-3	7/31/2008	ND (1,000)	**2,500**	**11,000**	All ND
B-12	B-12-6-6.5	6-6.5	7/31/2008	ND (8.0)	**350**	**1,000**	All ND
B-13	B-13-2.5-3	2.5-3	7/31/2008	ND (5.1)	ND (5.1)	ND (5.1)	All ND
B-13	B-13-6-6.5	6-6.5	7/31/2008	ND (6.2)	ND (6.2)	ND (6.2)	All ND
B-14	B-14-2.5-3	2.5-3	7/31/2008	ND (7.5)	**22**	**460**	All ND
B-14	B-14-6-6.5	6-6.5	7/31/2008	ND (5.6)	**26**	**84**	All ND
B-15	B-15-2.5-3	2.5-3	7/31/2008	**15**	**130**	**160**	All ND
B-15	B-15-6-6.5	6-6.5	7/31/2008	**31**	ND (130)	ND (130)	All ND
Shallow (<3 meters bgs) Soil ESL[(1)]				**4,300**	**1,900**	**7,800**	**N/A**

Notes:

ESL[(1)] = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for commercial/industrial land use where potentially impacted groundwater is not a current or potential drinking water resource (Table B).

- Results exceeding commercial/industrial ESLs are shaded

1,1-DCE = 1,1-Dichloroethene

1,1-DCA = 1,1-Dichloroethane

1,1,1-TCA = 1,1,1-Trichloroethane

bgs = Below ground surface

µg/kg = Micrograms per kilogram

ND (4.7) - Analyte not detected above the stated laboratory reporting limit.

ND = Not detected

N/A = Not applicable

Table 3
Volatile Organic Compounds in Groundwater
4600-4700 Coliseum Way Site
Oakland, California

Boring Identification	Sample Identification	Sample Date	Acetone (µg/L)	1,1- DCE (µg/L)	1,1- DCA (µg/L)	1,2- DCA (µg/L)	1,1,1- TCA (µg/L)	1,1,2- TCA (µg/L)	Toluene (µg/L)	TCE (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	DIPE (µg/L)	Isopropyl-benzene (µg/L)	All Other VOCs
B-1	B-1-W	6/27/2008	ND (10)	ND (0.5)	**0.6**	**5.4**	ND (0.5)	ND (0.5)	**41**	ND (0.5)	**0.6**	**2.9**	**14**	ND (0.5)	All ND
B-2	B-2-W	6/27/2008	ND (10)	**1.0**	**3.1**	**1.5**	ND (0.5)	ND (0.5)	**3.5**	ND (0.5)	ND (0.5)	**0.5**	ND (0.5)	ND (0.5)	All ND
B-3	B-3-W	6/27/2008	ND (10)	**2.5**	**11**	**3.9**	**7.8**	ND (0.5)	**1.1**	ND (0.5)	ND (0.5)	ND (0.5)	**19**	ND (0.5)	All ND
B-4	B-4-W	6/27/2008	ND (50)	**1,000**	**230**	**20**	**540**	**3.5**	**2.5**	**9.0**	ND (2.5)	ND (2.5)	**2.7**	ND (2.5)	All ND
B-6	B-6-W	6/27/2008	ND (10)	ND (0.5)	**0.9**	**1.8**	ND (0.5)	ND (0.5)	**7.1**	ND (0.5)	ND (0.5)	ND (0.5)	**1.7**	ND (0.5)	All ND
B-9	B-9-W	7/31/2008	**12**	**4.5**	**5.1**	**0.9**	**1.4**	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	**22**	ND (0.5)	All ND
B-10	B-10-W	7/31/2008	**610**	**39**	**48**	ND (3.6)	ND (3.6)	ND (3.6)	**9.6**	**120**	**340**	**2,200**	**6.3**	**7.3**	All ND
B-11	B-11-W	7/31/2008	ND (10)	**10**	**7.7**	ND (0.5)	**12**	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	All ND
Potential Vapor Intrusion ESL[(1)]			**150,000,000**	**18,000**	**3,400**	**690**	**360,000**	**1,200**	**530,000**	**1,800**	**170,000**	**160,000**	**NE**	**NE**	**N/A**

Notes:

[(1)] = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for evaluation of potential vapor intrusion concerns (Table E-1).

- Results exceeding groundwater ESLs are shaded

1,1-DCE = 1,1-Dichloroethene

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1,1-TCA = 1,1,1-Trichloroethane

1,1,2-TCA = 1,1,2-Trichloroethane

TCE = Trichloroethylene

DIPE = Isopropyl ether

µg/L = Micrograms per liter

ND (0.5) - Analyte not detected above the stated laboratory reporting limit.

ND = Not detected

NE = Not established

N/A = Not applicable

Table 4
Results of Groundwater Monitoring - MNA Parameters
4600-4700 Coliseum Way Site
Oakland, California

Boring Identification	Sample Identification	Sample Date	Geochemical Parameters		Electron Acceptors			Metabolic Byproducts			
			ORP[1] (mV)	TOC (mg/L)	Dissolved Oxygen[1] (mg/L)	Nitrate/Nitrite as Nitrogen (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Methane (mg/L)	Ethane (mg/L)	Ethene (mg/L)
B-1	B-1-W	6/27/2008	**-238.3**	**24.0**	**0.27**	**0.09**/ ND (0.05)	**73**	**35**	**0.036**	ND (0.005)	ND (0.005)

Notes:

MNA = Monitored natural attenuation

ORP = Oxidation reduction potential

TOC = Total organic carbon

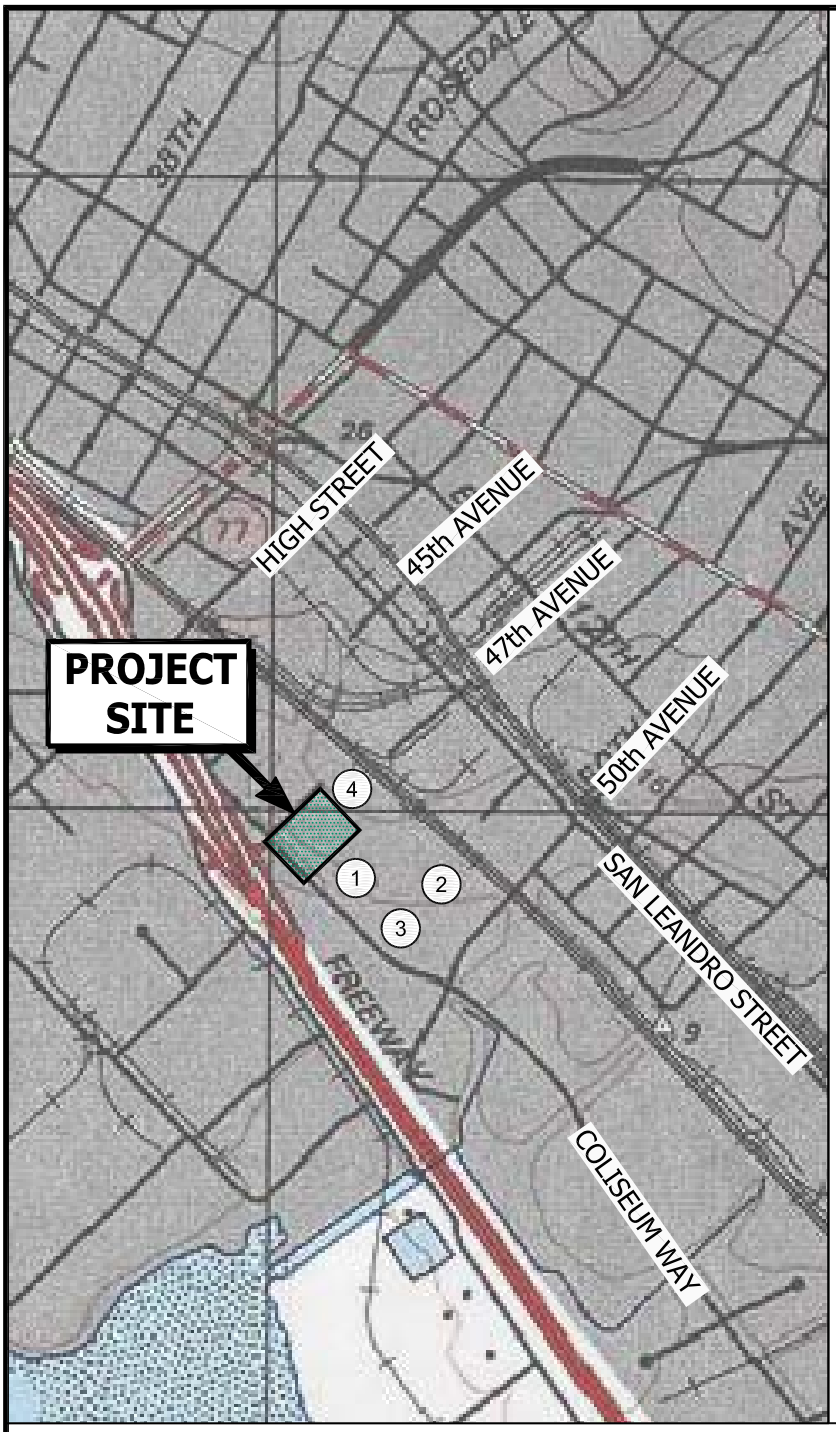
mV = Millivolts

mg/L = Milligrams per liter

ND (0.05) = Analyte not detected above the stated laboratory reporting limit.

[1] Measured in the field with a multi-parameter instrument.

ILLUSTRATIONS



Site Vicinity Features and Adjacent Properties Discussed in Text

1. Superior Plaster Castings Property (4800 Coliseum Way)
2. Former AAA Equipment Company (745 50th Street)
3. PG&E Property (4930 Coliseum Way
4. Learner Investment Company Property (768 46th Avenue)

0 1000 2000

Scale In Feet

N

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

PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
Subsurface Investigation Report
4600-4700 Coliseum Way
Oakland, California

PLATE 1

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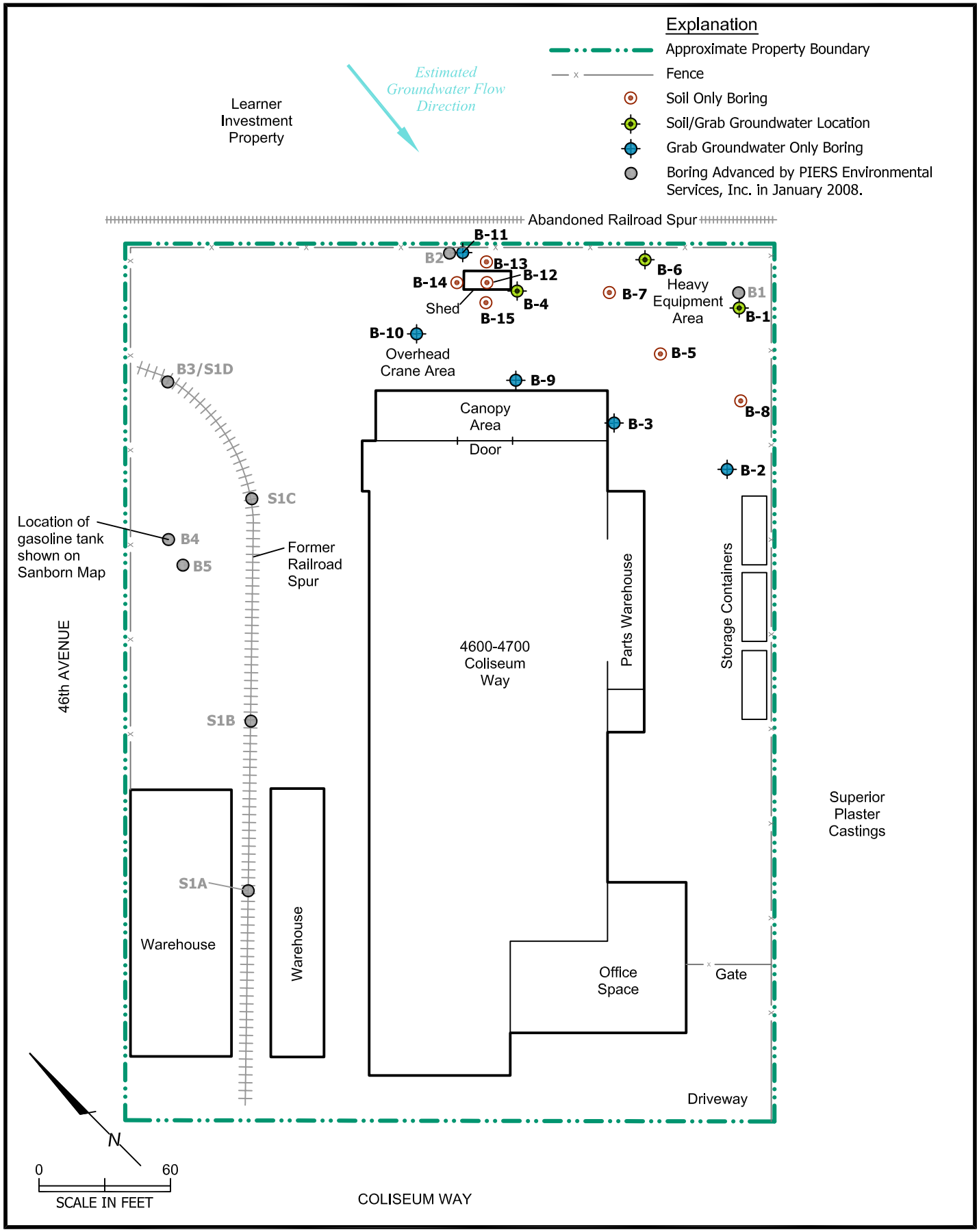

PES Environmental, Inc.
Engineering & Environmental Services

Site Plan
Subsurface Investigation Report
4600-4700 Coliseum Way
Oakland, California

PLATE
2

1148.001.02.003	114800102003_SIR_1-4	KSF	9/08
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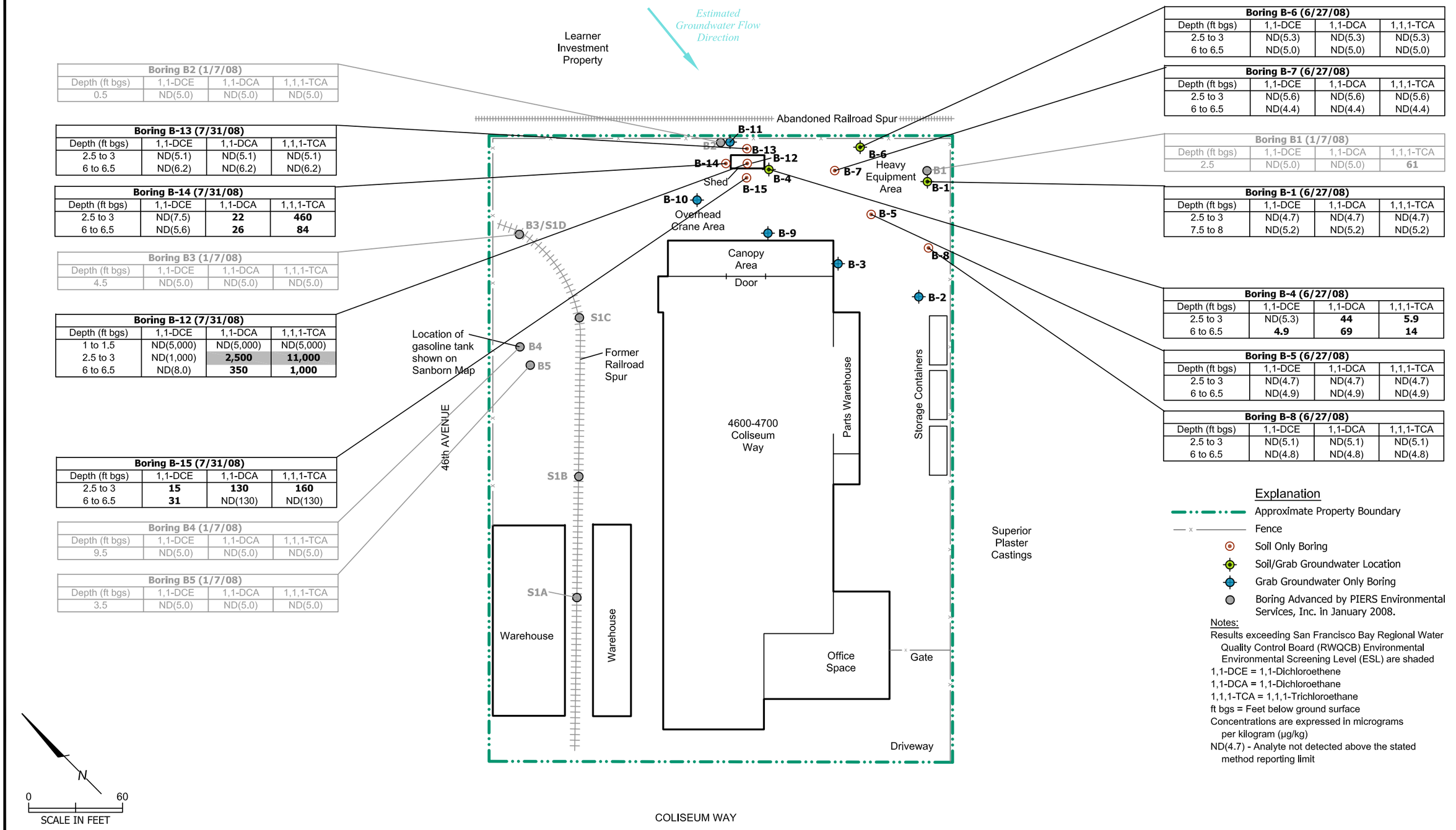


Boring B2 (1/7/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
0.5	ND(5.0)	ND(5.0)	ND(5.0)

Boring B-13 (7/31/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	ND(5.1)	ND(5.1)	ND(5.1)
6 to 6.5	ND(6.2)	ND(6.2)	ND(6.2)

Boring B-14 (7/31/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	ND(7.5)	**22**	**460**
6 to 6.5	ND(5.6)	**26**	**84**

Boring B3 (1/7/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
4.5	ND(5.0)	ND(5.0)	ND(5.0)

Boring B-12 (7/31/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
1 to 1.5	ND(5,000)	ND(5,000)	ND(5,000)
2.5 to 3	ND(1,000)	**2,500**	**11,000**
6 to 6.5	ND(8.0)	**350**	**1,000**

Boring B-15 (7/31/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	**15**	**130**	**160**
6 to 6.5	**31**	ND(130)	ND(130)

Boring B4 (1/7/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
9.5	ND(5.0)	ND(5.0)	ND(5.0)

Boring B5 (1/7/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
3.5	ND(5.0)	ND(5.0)	ND(5.0)

Boring B-6 (6/27/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	ND(5.3)	ND(5.3)	ND(5.3)
6 to 6.5	ND(5.0)	ND(5.0)	ND(5.0)

Boring B-7 (6/27/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	ND(5.6)	ND(5.6)	ND(5.6)
6 to 6.5	ND(4.4)	ND(4.4)	ND(4.4)

Boring B1 (1/7/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5	ND(5.0)	ND(5.0)	**61**

Boring B-1 (6/27/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	ND(4.7)	ND(4.7)	ND(4.7)
7.5 to 8	ND(5.2)	ND(5.2)	ND(5.2)

Boring B-4 (6/27/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	ND(5.3)	**44**	**5.9**
6 to 6.5	**4.9**	**69**	**14**

Boring B-5 (6/27/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	ND(4.7)	ND(4.7)	ND(4.7)
6 to 6.5	ND(4.9)	ND(4.9)	ND(4.9)

Boring B-8 (6/27/08)

Depth (ft bgs)	1,1-DCE	1,1-DCA	1,1,1-TCA
2.5 to 3	ND(5.1)	ND(5.1)	ND(5.1)
6 to 6.5	ND(4.8)	ND(4.8)	ND(4.8)

Explanation

- Approximate Property Boundary
- Fence
- Soil Only Boring
- Soil/Grab Groundwater Location
- Grab Groundwater Only Boring
- Boring Advanced by PIERS Environmental Services, Inc. in January 2008.

Notes:

Results exceeding San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Environmental Screening Level (ESL) are shaded

1,1-DCE = 1,1-Dichloroethene

1,1-DCA = 1,1-Dichloroethane

1,1,1-TCA = 1,1,1-Trichloroethane

ft bgs = Feet below ground surface

Concentrations are expressed in micrograms per kilogram (µg/kg)

ND(4.7) - Analyte not detected above the stated method reporting limit

PES Environmental, Inc.
Engineering & Environmental Services

Summary of Soil Analytical Results
Subsurface Investigation Report
4600-4700 Coliseum Way
Oakland, California

PLATE
3

1148.001.02.003	114800102003_SIR_1-4	KSF	9/08
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

Boring B-11	7/31/08
1,1-DCE	**10**
1,1-DCA	**7.7**
1,2-DCA	ND(0.5)
1,1,1-TCA	**12**
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)

Boring B2	1/7/08
1,1-DCE	**18**
1,1-DCA	**310**
1,2-DCA	ND(0.5)
1,1,1-TCA	**1.8**
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)

Boring B-4	6/27/08
1,1-DCE	**1,000**
1,1-DCA	**230**
1,2-DCA	**20**
1,1,1-TCA	**540**
1,1,2-TCA	**3.5**
TCE	**9.0**

Boring B3	1/7/08
1,1-DCE	ND(0.5)
1,1-DCA	**1.5**
1,2-DCA	**3.3**
1,1,1-TCA	ND(0.5)
1,1,2-TCA	ND(0.5)
TCE	**1.7**

Boring B-10	7/31/08
1,1-DCE	**39**
1,1-DCA	**48**
1,2-DCA	ND(3.6)
1,1,1-TCA	ND(3.6)
1,1,2-TCA	ND(3.6)
TCE	**120**

Boring B4	1/7/08
1,1-DCE	ND(0.5)
1,1-DCA	ND(0.5)
1,2-DCA	ND(0.5)
1,1,1-TCA	ND(0.5)
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)

Boring B5	1/7/08
1,1-DCE	ND(0.5)
1,1-DCA	ND(0.5)
1,2-DCA	ND(0.5)
1,1,1-TCA	ND(0.5)
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)

Boring B-9	7/31/08
1,1-DCE	**4.5**
1,1-DCA	**5.1**
1,2-DCA	**0.9**
1,1,1-TCA	**1.4**
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)

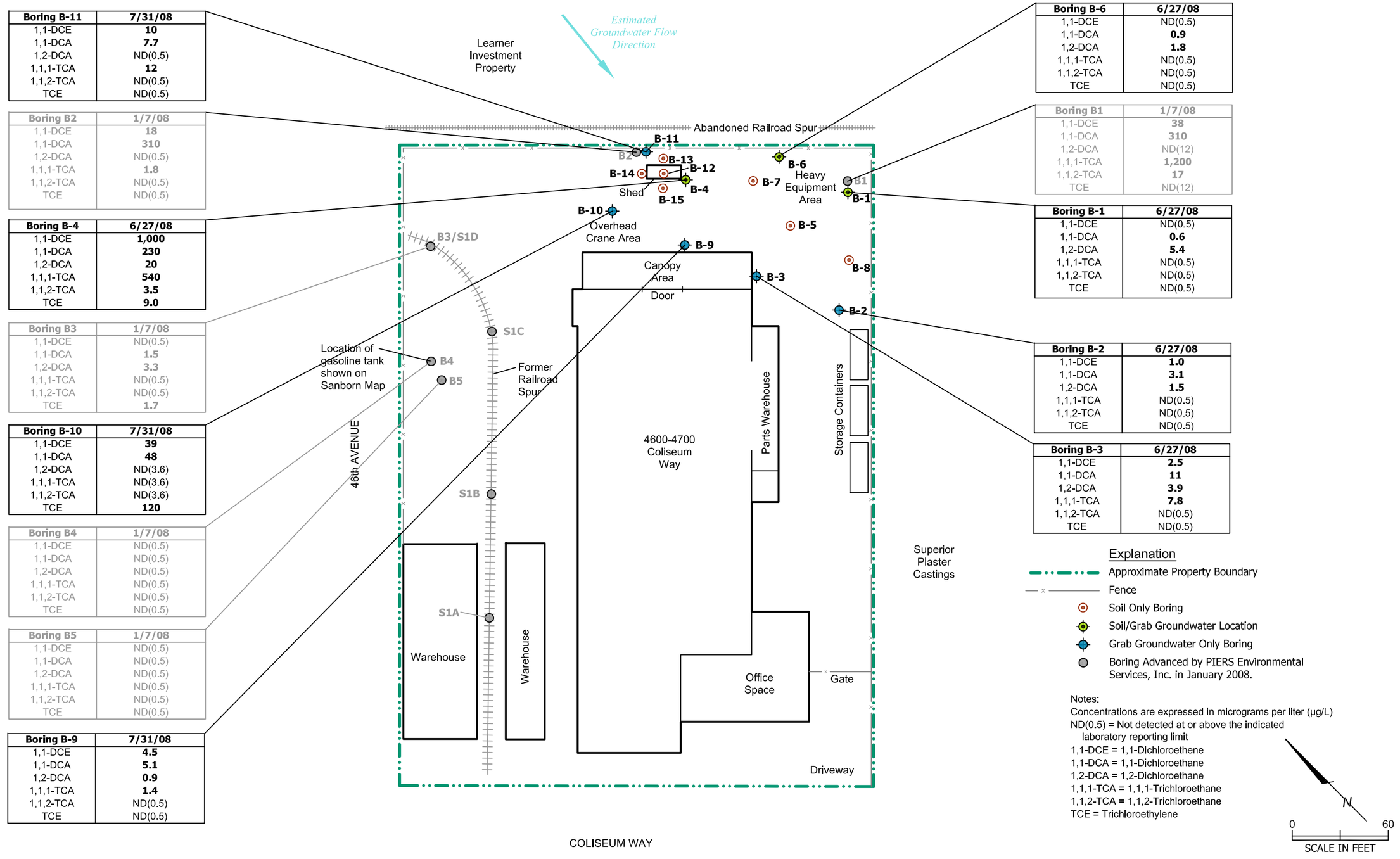
Boring B-6	6/27/08
1,1-DCE	ND(0.5)
1,1-DCA	**0.9**
1,2-DCA	**1.8**
1,1,1-TCA	ND(0.5)
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)

Boring B1	1/7/08
1,1-DCE	**38**
1,1-DCA	**310**
1,2-DCA	ND(12)
1,1,1-TCA	**1,200**
1,1,2-TCA	**17**
TCE	ND(12)

Boring B-1	6/27/08
1,1-DCE	ND(0.5)
1,1-DCA	**0.6**
1,2-DCA	**5.4**
1,1,1-TCA	ND(0.5)
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)

Boring B-2	6/27/08
1,1-DCE	**1.0**
1,1-DCA	**3.1**
1,2-DCA	**1.5**
1,1,1-TCA	ND(0.5)
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)

Boring B-3	6/27/08
1,1-DCE	**2.5**
1,1-DCA	**11**
1,2-DCA	**3.9**
1,1,1-TCA	**7.8**
1,1,2-TCA	ND(0.5)
TCE	ND(0.5)



Explanation

- Approximate Property Boundary
- Fence
- Soil Only Boring
- Soil/Grab Groundwater Location
- Grab Groundwater Only Boring
- Boring Advanced by PIERS Environmental Services, Inc. in January 2008.

Notes:
Concentrations are expressed in micrograms per liter (µg/L)
ND(0.5) = Not detected at or above the indicated laboratory reporting limit
1,1-DCE = 1,1-Dichloroethene
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
TCE = Trichloroethylene

N

0 60

SCALE IN FEET

PES Environmental, Inc.
Engineering & Environmental Services

Select Groundwater Analytical Results
Subsurface Investigation Report
4600-4700 Coliseum Way
Oakland, California

PLATE
4

1148.001.02.003	114800102003_SIR_1-4	KSF	9/08
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

APPENDIX A

PIERS JANUARY 2008 LIMITED PHASE II SITE INVESTIGATION

Limited Phase II
Site Investigation Report
of
4600-4700 COLISEUM WAY
OAKLAND, CALIFORNIA

Prepared For:
Mr. Samuel Leung
United Commercial Bank
900 Webster Street
Oakland, CA 94607

Prepared By:
PIERS Environmental Services, Inc.
1330 S. Bascom Avenue, Suite F
San Jose, CA 95128

January 2008
PIERS Project Number: 7339

January 23, 2008

Mr. Samuel Leung
United Commercial Bank
900 Webster Street
Oakland, CA 94607

RE: **Limited Phase II Site Investigation Report**
4600-4700 Coliseum Way, Oakland, CA

Dear Mr. Leung:

At your request, PIERS Environmental, Inc. (PIERS) has prepared this report of "Limited Phase II Site Investigation Report" for the above-referenced site (hereinafter referred to as "the Property"). The work was performed to investigate whether the subsurface soils and groundwater at the Property have been impacted by the prior and current use of the Property, and to investigate the potential of impacts to the Property from off-site sources.

SITE DESCRIPTION AND BACKGROUND

The Property is located on the northeastern side of Coliseum Way, which is a frontage road along the eastern side of the Interstate I-880 freeway in Oakland, California. A Property Site Plan is attached to this report as Figure 2.

PIERS' previous work for this Property was performed in December 2007, when PIERS reviewed previous Phase I Environmental Site Assessments (ESAs) that were completed in October and November of 2007 by two other environmental firms, AEI Consultants and ERAS. PIERS review of these ESAs was summarized in a letter dated December 7, 2007. The scope of work completed for this investigation was based on recommendations from the October 2007 ESA completed by AEI Consultants.

THIS INVESTIGATION

On January 7, 2008, eight exploratory soil borings, designated as B1 through B5 and S1A through S1C on the attached Figure 2, were completed at the Property (borings S1D and B3 were combined).

Prior to drilling, a health and safety plan was prepared, and the site was marked and Underground Service Alert was notified. Also, a drilling permit was obtained from Alameda County Public Works.

The exploratory soil borings were completed using a Geoprobe direct push drill rig provided by Vironex, Inc. of Pacheco, California, a state-licensed driller. Soil borings B1 through B3 were located as close as was possible to the northeastern perimeter of the Property to investigate potential off-site sources that could cause contamination to migrate in groundwater beneath the Property. Borings B4 and B5 were located at and adjacent to the location of a former gasoline tank shown on historical Sanborn Maps. These soil borings were extended to approximately ten feet below grade. Groundwater entered the boreholes and rose to approximately four feet below grade, except in B3, where the soil boring was extended to approximately 15 feet below grade and several feet of water eventually collected in the borehole.

Four shallow soil borings had been proposed along a former railroad spur. Soil borings S1A through S1C were collected along this feature. A soil sample designated as S1D was collected at soil boring B3 to complete a four-part composite soil sample.

At all of the soil borings except B3, the soils were continuously cored to approximately ten feet below grade, the rods retracted, and slotted PVC casing was placed in the borehole. The groundwater samples were retrieved by using small diameter vinyl tubing fitted with a chuck ball tip to surge the water to the surface, or a bailer. The groundwater samples were decanted into VOAs and an amber liter, labeled, placed in an ice chest, on ice, and entered on a chain of custody form prior to same day delivery to the laboratory.

At B3, the borehole collapsed upon retrieval of the rods, and no groundwater was encountered above approximately eight feet below grade. A hydropunch tool was then used to collect a groundwater sample. During the first attempt, the rods were extended to approximately 13 feet below grade and the hydropunch screen was exposed over a four-foot interval; however, sufficient water to allow for sample collection did not accumulate over a half-hour time period. The rods were retracted and then the hydropunch was extended to approximately 15 feet below grade and the water sample was successfully collected.

At soil borings B1 through B3, shallow soil samples from the unsaturated zone were collected but placed on hold pending the results of the water analyses. At B4, one soil sample that would correspond to the likely bottom of an underground storage tank (UST) was collected at approximately 9.5 feet below grade. At nearby soil boring B5, one soil sample that would correspond to the capillary fringe zone was retained from approximately 3.5 feet below grade. At S1A through S1D, soil samples from approximately 0.5 to 1.5 feet below grade were retained (S1D was collected from soil boring B3).

The subsurface conditions beneath approximately 2.5 feet consisted predominantly of dark brown to olive brown silt (ML) and sandy gravelly silt (ML). Fill material, also consisting of sandy gravelly silt, was present at the surface to approximately one to two feet below grade. No obvious odors or soil staining were observed during drilling.

The sections of the plastic liners containing soil samples to be retained were first cut with a hacksaw. The ends of the liner containing the soil samples were covered with Teflon tape and caps and then the soil samples were labeled, placed in an ice chest, on ice, and entered on a chain of custody form prior to same day delivery to the laboratory.

The groundwater samples were retrieved by using small diameter vinyl tubing fitted with a chuck ball tip to surge the water to the surface, or a bailer. The groundwater samples were decanted into VOAs and an amber liter, labeled, placed in an ice chest, on ice, and entered on a chain of custody form prior to same day delivery to the laboratory.

Soil cuttings from the soil boring were stored on site in a 5-gallon pail for proper disposal. Upon completion of groundwater sampling, the soil borings were filled with neat cement grout using the PVC casing as a tremie pipe. Ms. Vicky Hamlin of Alameda County Public Works witnessed the sealing of some of the soil borings.

ANALYTICAL RESULTS

The soil and groundwater samples were transported on the same day in an ice chest under chain of custody procedures to McCampbell Analytical Laboratory in Pittsburg, California. The soil samples from the four shallow soil borings along the railroad spur were composited into one sample by the laboratory. All of the soil and water samples were analyzed for volatile organic compounds (VOC) by EPA Method 8260B. The groundwater samples from the three soil borings along the northeastern perimeter of the Property and the composite soil sample were also analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and as motor oil by EPA Method 8015. The soil and groundwater samples from the two soil borings at the former fuel tank location were also analyzed for TPH as gasoline by EPA Method 8015. The composite soil sample was also analyzed for polychlorinated biphenols (PCBs) by EPA Method 8082A.

The four-part composite soil sample yielded non-detectable results for VOCs, and for PCBs. TPH as diesel and motor oil were detected at concentrations of 9.9 parts per million (ppm) and 84 ppm, respectively.

Concentrations of VOCs and TPH as gasoline were not detected in the soil samples collected at the former fuel tank location (B4 d9.5' and B5 d 3.5').

Concentrations of TPH as gasoline and VOCs were non-detectable in the water samples from B4 and B5, at the former fuel tank location, except for toluene, which was detected at concentrations of 1.3 parts per billion (ppb) and 0.70 ppb, respectively.

In the water sample from B1, concentrations of 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), 1,1,2-trichloroethane (1,1,2-TCA), and 1,1,1-TCA were detected at 310 ppb, 38 ppb, 17 ppb, and 1,200 ppb, respectively. In B2, concentrations of 1,1-DCA and 1,1-DCE were detected at 9.2 ppb and 18 ppb, respectively. In B3, concentrations of 1,1-DCA, trichloroethene (TCE), 1,2-DCA, and cis-1,2-DCE were detected at 1.5 ppb, 1.7 ppb, 3.3 ppb and 1.0 ppb, respectively. Toluene and di-isopropyl ether (DIPE, a fuel oxygenate) were also detected at concentrations of 1.3 ppb and 2.6 ppb, respectively. Concentrations of TPH as diesel and as motor oil were not detected in B1 or B3. TPH as diesel was detected in B2 at a concentration of 95 ppb. Laboratory footnotes indicate that a portion of the concentration reported as diesel overlapped with gasoline.

Based on the groundwater sample results, the three shallow soil samples from B1 through B3 (B1d2.5', B2d0.5', and B3d4.5'), which had been put on hold in the laboratory were then analyzed for VOCs by EPA Method 8260. The only analyte detected in the soil samples was 1,1,1-TCA, which was detected in B1d2.5' at a concentration of 0.061 ppm.

The analytical results are summarized on Table 1. Copies of the laboratory analytical data sheets are attached to this report.

CONCLUSIONS AND RECOMMENDATIONS

"Environmental Screening Levels" (ESLs) for concentrations of contaminants in soils and groundwater have been established by the Regional Water Quality Control Board (RWQCB). These levels are used to determine the relative risks to human health and the environment. Generally the presence of a chemical in soil or groundwater at concentrations below the corresponding ESL can be assumed to not pose a significant threat to human health or the environment. The ESLs for the compounds detected in groundwater are shown on Table 1.

The concentrations of detected VOCs and hydrocarbons in groundwater are summarized on Table 1. Concentrations of VOCs detected above the ESLs are shown on Figure 2.

Borings B1 through B3 were located as close as was possible to the northeastern perimeter of the Property to investigate potential off-site sources that could cause contamination in groundwater to migrate beneath the Property. VOCs were detected in groundwater at elevated concentrations. The only analyte detected in the soil samples was 1,1,1-TCA, which was detected in B1d2.5' at a concentration of 0.061 ppm. The highest concentration of any analyte in groundwater was 1,1,1-TCA at a concentration of 1,200 ppb in B1. The occurrence in groundwater (1,200 ppb) is significantly above the ESL of 200 ppb. The occurrence in soil at 2.5 feet (0.061 ppm) is below the residential and commercial ESL of 7.8 ppm.

The highest concentration of 1,1,1-TCA was found in B1 at the northeastern corner of the Property and the lowest concentration was found in B3, which was the farthest boring away from B1. The only occurrence of 1,1,1-TCA in soil was found in B1, which had the highest groundwater concentrations. **Because of the shallow occurrence of groundwater (approximately four feet below grade on the drilling date), it is possible that the 1,1,1-TCA in soil at B1 is from migration of contaminants in groundwater from an up-gradient source.**

During PIERS review of the two previous Phase I reports by AEI and ERAS, it was determined that, "Adjacent parcels to the north, northeast, east, and southeast are currently under remediation for the release of chlorinated solvents, petroleum hydrocarbons, polychlorinated biphenyls, volatile organic compounds and metals. The sites have been grouped together as a common source of historical releases that have resulted in a commingled plume. The adjacent sites are:

- Former Learner property at 768 – 46th Ave to the north
- Former AAA Equipment Company at 745 – 50th Avenue to the northeast
- PG&E at 4930 Coliseum Way to the east
- Former Superior Plaster Casting at 4800 Coliseum Way to the southeast
- Pacific Galvanizing at 715 – 46th Avenue, adjacent to the northwest across 46th Avenue, and
- East Bay Clarklift at 4701 Coliseum Way, adjacent to the southwest across Coliseum Way."

The available data reviewed by PIERS to date have not revealed an identified up-gradient source of the 1,1,1-TCA. To make that determination (if possible), additional file reviews, particularly of the up-gradient 768-46th Street site, should be conducted. If data indicating an up-gradient source cannot be found, additional delineation (additional soil borings) should be completed.

Borings B4 and B5 were located at and adjacent to the location of a former gasoline tank shown on historical Sanborn Maps, and soil and groundwater samples were collected. Very low concentrations of toluene below the ESLs were detected at 1.3 ppb and 0.70 ppb, respectively. Hydrocarbons and other VOCs were not detected in the soil samples. Based on these findings, the Property does not appear to have been significantly impacted by the former gasoline tank at this location.

Four shallow soil samples were completed along a former railroad spur and composited into one sample by the laboratory. The four-part composite soil sample yielded non-detectable results for VOCs and for PCBs. TPH as diesel and motor oil were detected at concentrations of 9.9 ppm and 84 ppm, respectively, below the ESL for heavy hydrocarbons in shallow soils (1,000 ppm for commercial use).

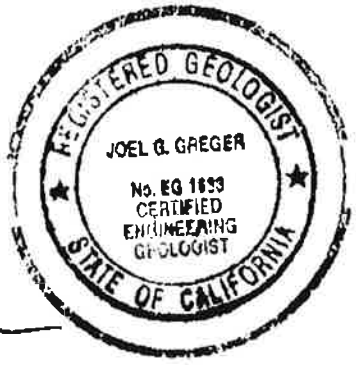
PIERS recommends that because contaminants in on-site soil and groundwater were identified during this investigation, this report should be submitted to the Alameda County Health Care Services Agency.

LIMITATIONS

The observations and conclusions presented in this report are professional opinions based on the scope of work outlined herein. This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. The opinions presented apply to site conditions existing at the time of our study and cannot apply to site conditions or changes of which we are not aware or have not had the opportunity to evaluate. This investigation was conducted solely to evaluate environmental conditions beneath the Property at specific locations. Subsurface conditions may vary away from the data points available. Additional work, including subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation. It must be recognized that any conclusions drawn from these data rely on the integrity of the information available at the time of investigation and that a full and complete determination of environmental contamination and risks cannot be made.

Should you have any questions regarding this report, please do not hesitate to call me at (510) 593-5382.

Sincerely,
PIERS Environmental Services, Inc.



Joel G. Greger
Senior Project Manager
CEG # EG1633, REA # 07079

Kay Pannell
Chief Operations Officer
REP #5800, REA-II #20236

Attachments: Figure 2
Table 1
Laboratory Analytical Data Sheets

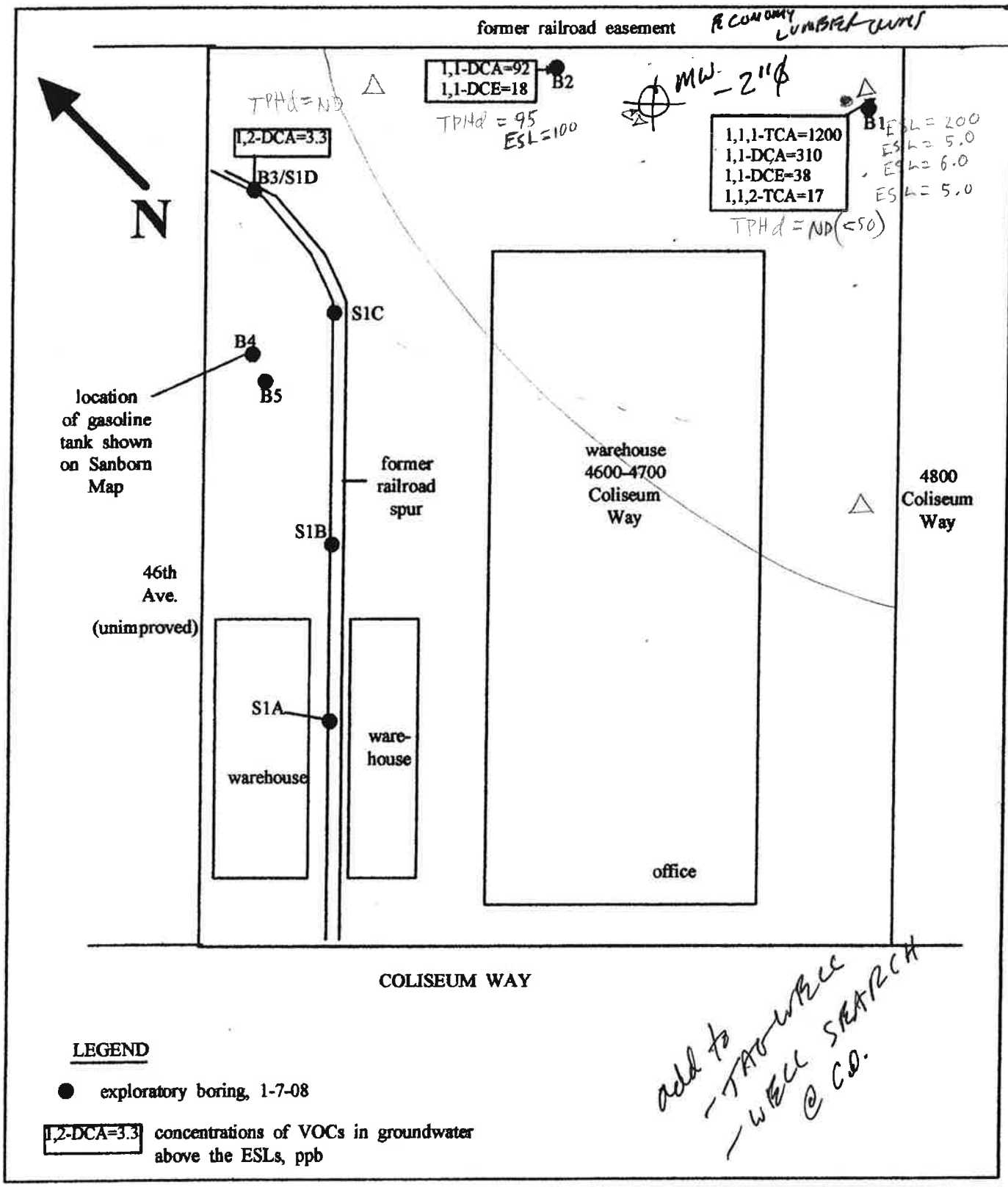


FIGURE 2
SITE PLAN - LOCATIONS OF EXPLORATORY BORINGS

4600-4700 COLISEUM WAY
OAKLAND, CA

JANUARY 2008
SCALE: 1" = 60'

PIERS ENVIRONMENTAL SERVICES, INC. 1330 BASCOM AVE. SUITE F SAN JOSE, CA 95128
PHONE: 408-559-1248 FAX: 408-559-1224 WEB: PIERSES.COM

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
4700 Coliseum Way, Oakland, CA
Samples collected on 1-7-08.

Sample No.	TPH-gas (ppb)	TPH-diesel (ppb)	TPH-motor oil	1,1-DCA (ppb)	1,1-DCE (ppb)	1,1,2-TCA (ppb)	1,1,1-TCA (ppb)	TCE (ppb)	1,2-DCA (ppb)	cis-1,2-DCE (ppb)	Toluene (ppb)	DIPE (ppb)
B1 water	NA	<50	<250	**310**	**38**	**17**	**1200***	<12	<12	<12	<12	<12
B2 water	NA	95	<250	**9.2**	**18**	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<0.5
B3 water	NA	<50	<250	1.5	<0.5	<0.5	<0.5	1.7	**3.3**	1.0	1.3	2.6
B4 water	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5
B5 water	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.70	<0.5
ESL	100/5000	100/2500	100/2500	5.2/100	6.0/6300	5.0/350	200/200	5.0/530	0.5/200	6.0/6200	40/400	

EXPLANATION:

ppb = parts per billion DCA = dichloroethane, DCE = dichloroethene, TCA = Trichloroethane, TCE = Trichloroethene, DIPE = Diisopropyl ether.
NA = not analyzed. TPH = Total Petroleum Hydrocarbons.
* 0.061 ppm of 1,1,1-TCA was detect ted in soil from B1 at 2.5'.
ESL - Environmental Screening Level - groundwater is/is not considered a resource, Tables A/B.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Piers Environmental 1330 S. Bascom Avenue, Ste. F San Jose, CA 95128	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
	Client Contact: Joel Greger	Date Reported: 01/14/08
	Client P.O.:	Date Completed: 01/14/08

WorkOrder: 0801147

January 14, 2008

Dear Joel:

Enclosed within are:

1) The results of the **8** analyzed samples from your project: **Coliseum Way,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC.
1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

0801147

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☒ PDF ☒ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Joel G[illegible] Bill To: PIERS
Company: PIERS Environmental
1330 S Bascom Ave, S.[illegible]
E-Mail: [illegible]
Tele: (510) [illegible] Fax: (510) [illegible]
Project #: Project Name: Coliseum Way
Project Location: ~~[illegible]~~ 7706 Coliseum Way, Oakland
Sampler Signature: [signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
B1 water		11.08	[illegible] AM	4	[illegible]	X					X	X		
B2 water		↓	2:51 PM			X					X	X		
B3 water			12:15 PM	2	1L	X					X	X		
B4 water			[illegible] AM	4	VL	X					X	X		
B5 water			10:51 AM	4	↓	X					X	X		
Comp B1A-D			9:24 AM	4	[illegible]		X				X			
B1 @ 2.5'			8:01 AM	1			X				X			
B2 @ 2.5'			8:11 AM	1			X				X			
B3 @ 4.5			9:40 AM	1			X				X			
B4 @ 14.5			10:12 AM	1			X				X			
B5 @ 13.5		↓	10:37 AM	1	↓		X				X			

Analysis Request

SAMPLE ID	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + motor oil [illegible]	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505 / 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: PCBs	Other	Other	Comments
B1 water		X									X									
B2 water		X									X									
B3 water		X									X									
B4 water	X										X									
B5 water	X										X									
Comp B1A-D		X									X						X			
B1 @ 2.5'		~~X~~									~~X~~									hold
B2 @ 2.5'		~~X~~									~~X~~									hold
B3 @ 4.5		~~X~~									~~X~~									hold
B4 @ 14.5	X										X									
B5 @ 13.5	X										X									

Comments: Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
[signature]	11/08	2:45 PM	[signature]
~~Relinquished By:~~ [signature]	11/8	5:15	Ml Vall
Relinquished By:	Date:	Time:	Received By:

ICE/t° 6.0°C
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

COMMENTS:

	VOAS	O&G	METALS	OTHER
PRESERVATION	✓		pH<2	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0801147 **ClientID: PESJ**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Joel Greger
Piers Environmental
1330 S. Bascom Avenue, Ste. F
San Jose, CA 95128

Email: piers@pierses.com
TEL: (408) 559-1248 FAX: (408) 559-1224
ProjectNo: Coliseum Way
PO:

Bill to:
Jennifer
Piers Environmental
1330 S. Bascum Avenue, Ste. F
San Jose, CA 95128
jennifer@pierses.com

Requested TAT: 5 days

Date Received: **01/07/2008**
Date Printed: **01/08/2008**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0801147-001	B1 Water	Water	1/7/2008 8:10:00	☐			B			A		A				
0801147-002	B2 Water	Water	1/7/2008 8:51:00	☐			B					A				
0801147-003	B3 Water	Water	1/7/2008 12:15:00	☐			B					A				
0801147-004	B4 Water	Water	1/7/2008 10:17:00	☐			B		A							
0801147-005	B5 Water	Water	1/7/2008 10:51:00	☐			B		A							
0801147-006	Comp S1A-D	Soil	1/7/2008 9:29:00	☐	A	A					A					
0801147-010	B4d9.5'	Soil	1/7/2008 10:02:00	☐		A		A								
0801147-011	B5d3.5'	Soil	1/7/2008 10:37:00	☐		A		A								

Test Legend:

1	8082A_PCB_S	2	8260B_S	3	8260B_W	4	G-MBTEX_S	5	G-MBTEX_W
6	PREDF REPORT	7	TPH(DMO)WSG_S	8	TPH(DMO)WSG_W	9		10	
11		12							

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Piers Environmental**
Date and Time Received: **1/7/2008 7:16:06 PM**

Project Name: **Coliseum Way**
Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0801147** Matrix Soil/Water
Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
1330 S. Bascom Avenue, Ste. F		Date Received: 01/07/08
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 01/07/08
	Client P.O.:	Date Analyzed 01/09/08

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550C Analytical Method: SW8082A Work Order: 0801147

					Reporting Limit for DF =1	
Lab ID	0801147-006A					
Client ID	Comp S1A-D					
Matrix	S					
DF	1				S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND				0.025	NA
Aroclor1221	ND				0.025	NA
Aroclor1232	ND				0.025	NA
Aroclor1242	ND				0.025	NA
Aroclor1248	ND				0.025	NA
Aroclor1254	ND				0.025	NA
Aroclor1260	ND				0.025	NA
PCBs, total	ND				0.025	NA
Surrogate Recoveries (%)						
%SS:	85					
Comments						

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

(h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~1 vol. % sediment; (j) sample diluted due to high organic content/matrix interference; (k) p,p,- is the same as 4,4,-; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid permanganate (EPA 3665) cleanup; (p) see attached narrative; q) reporting limit raised due to insufficient sample amount; (r) results are reported on a dry weight basis;

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/07/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-006A
Client ID	Comp S1A-D
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	92	%SS2:	101
%SS3:	103		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/07/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-010A
Client ID	B4d9.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	92	%SS2:	101
%SS3:	105		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/07/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-011A
Client ID	B5d3.5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	91	%SS2:	101
%SS3:	104		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/11/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/11/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-001B
Client ID	B1 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<250	25	10	Acrolein (Propenal)	ND<120	25	5.0
Acrylonitrile	ND<50	25	2.0	tert-Amyl methyl ether (TAME)	ND<12	25	0.5
Benzene	ND<12	25	0.5	Bromobenzene	ND<12	25	0.5
Bromochloromethane	ND<12	25	0.5	Bromodichloromethane	ND<12	25	0.5
Bromoform	ND<12	25	0.5	Bromomethane	ND<12	25	0.5
2-Butanone (MEK)	ND<50	25	2.0	t-Butyl alcohol (TBA)	ND<50	25	2.0
n-Butyl benzene	ND<12	25	0.5	sec-Butyl benzene	ND<12	25	0.5
tert-Butyl benzene	ND<12	25	0.5	Carbon Tetrachloride	ND<12	25	0.5
Carbon Disulfide	ND<12	25	0.5	Chlorobenzene	ND<12	25	0.5
Chloroethane	ND<12	25	0.5	2-Chloroethyl Vinyl Ether	ND<25	25	1.0
Chloroform	ND<12	25	0.5	Chloromethane	ND<12	25	0.5
2-Chlorotoluene	ND<12	25	0.5	4-Chlorotoluene	ND<12	25	0.5
Dibromochloromethane	ND<12	25	0.5	1,2-Dibromo-3-chloropropane	ND<5.0	25	0.2
1,2-Dibromoethane (EDB)	ND<12	25	0.5	Dibromomethane	ND<12	25	0.5
1,2-Dichlorobenzene	ND<12	25	0.5	1,3-Dichlorobenzene	ND<12	25	0.5
1,4-Dichlorobenzene	ND<12	25	0.5	Dichlorodifluoromethane	ND<12	25	0.5
1,1-Dichloroethane	310	25	0.5	1,2-Dichloroethane (1,2-DCA)	ND<12	25	0.5
1,1-Dichloroethene	38	25	0.5	cis-1,2-Dichloroethene	ND<12	25	0.5
trans-1,2-Dichloroethene	ND<12	25	0.5	1,2-Dichloropropane	ND<12	25	0.5
1,3-Dichloropropane	ND<12	25	0.5	2,2-Dichloropropane	ND<12	25	0.5
1,1-Dichloropropene	ND<12	25	0.5	cis-1,3-Dichloropropene	ND<12	25	0.5
trans-1,3-Dichloropropene	ND<12	25	0.5	Diisopropyl ether (DIPE)	ND<12	25	0.5
Ethylbenzene	ND<12	25	0.5	Ethyl tert-butyl ether (ETBE)	ND<12	25	0.5
Freon 113	ND<250	25	10	Hexachlorobutadiene	ND<12	25	0.5
Hexachloroethane	ND<12	25	0.5	2-Hexanone	ND<12	25	0.5
Isopropylbenzene	ND<12	25	0.5	4-Isopropyl toluene	ND<12	25	0.5
Methyl-t-butyl ether (MTBE)	ND<12	25	0.5	Methylene chloride	ND<12	25	0.5
4-Methyl-2-pentanone (MIBK)	ND<12	25	0.5	Naphthalene	ND<12	25	0.5
Nitrobenzene	ND<250	25	10	n-Propyl benzene	ND<12	25	0.5
Styrene	ND<12	25	0.5	1,1,1,2-Tetrachloroethane	ND<12	25	0.5
1,1,2,2-Tetrachloroethane	ND<12	25	0.5	Tetrachloroethene	ND<12	25	0.5
Toluene	ND<12	25	0.5	1,2,3-Trichlorobenzene	ND<12	25	0.5
1,2,4-Trichlorobenzene	ND<12	25	0.5	1,1,1-Trichloroethane	1200	25	0.5
1,1,2-Trichloroethane	17	25	0.5	Trichloroethene	ND<12	25	0.5
Trichlorofluoromethane	ND<12	25	0.5	1,2,3-Trichloropropane	ND<12	25	0.5
1,2,4-Trimethylbenzene	ND<12	25	0.5	1,3,5-Trimethylbenzene	ND<12	25	0.5
Vinyl Chloride	ND<12	25	0.5	Xylenes	ND<12	25	0.5

Surrogate Recoveries (%)

%SS1:	106	%SS2:	99
%SS3:	102		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/11/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/11/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-002B
Client ID	B2 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.2
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	9.2	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	18	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	1.8	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	107	%SS2:	99
%SS3:	102		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/10/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-003B
Client ID	B3 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.2
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	1.5	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	3.3	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	1.0	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	2.6	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	1.3	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	1.7	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	105	%SS2:	102
%SS3:	105		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/10/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-004B
Client ID	B4 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.2
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	1.3	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	106	%SS2:	99
%SS3:	104		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
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1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/10/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/10/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-005B
Client ID	B5 Water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Tetrachloride	ND	1.0	0.5
Carbon Disulfide	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.2
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	0.70	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	105	%SS2:	100
%SS3:	103		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; J) analyte detected below quantitation limits; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative; q) reported in ppm.

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Piers Environmental 1330 S. Bascom Avenue, Ste. F San Jose, CA 95128	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
	Client Contact: Joel Greger	Date Extracted: 01/07/08
	Client P.O.:	Date Analyzed 01/08/08-01/09/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0801147

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
010A	B4d9.5	S	ND	ND	ND	ND	ND	ND	1	91
011A	B5d3.5	S	ND	ND	ND	ND	ND	ND	1	85

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	Units
	W	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/08/08
San Jose, CA 95128	Client P.O.:	Date Analyzed: 01/08/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0801147

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
004A	B4 Water	W	ND,i	ND	ND	1.1	ND	ND	1	90
005A	B5 Water	W	ND,i	ND	ND	ND	ND	ND	1	96

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
1330 S. Bascom Avenue, Ste. F		Date Received: 01/07/08
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 01/07/08
	Client P.O.:	Date Analyzed 01/08/08

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C/3630C Analytical methods: SW8015C Work Order: 0801147

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0801147-006A	Comp S1A-D	S	9.9,g	84	5	93

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; r) results are reported on a dry weight basis

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
1330 S. Bascom Avenue, Ste. F		Date Received: 01/07/08
San Jose, CA 95128	Client Contact: Joel Greger	Date Extracted: 01/07/08
	Client P.O.:	Date Analyzed 01/08/08

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C Analytical methods: SW8015C Work Order: 0801147

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0801147-001A	B1 Water	W	ND,i	ND,i	1	102
0801147-002A	B2 Water	W	95,d,b,i	ND,i	1	100
0801147-003A	B3 Water	W	ND,i	ND,i	1	103

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to matrix interference; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; p) see attached narrative.

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QC SUMMARY REPORT FOR SW8082A

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8082A	Extraction SW3550C				BatchID: 33042				Spiked Sample ID: 0801144-030A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aroclor1260	ND	0.075	125	124	0.567	124	125	0.640	70 - 130	20	70 - 130	20
%SS:	124	0.050	116	115	0.143	112	109	2.83	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33042 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-006A	01/07/08 9:29 AM	01/07/08	01/09/08 8:26 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder 0801147

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 33045				Spiked Sample ID: 0801159-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	106	105	1.26	109	111	1.76	70 - 130	30	70 - 130	30
MTBE	ND	10	103	95.3	7.89	96.9	91.7	5.46	70 - 130	30	70 - 130	30
Benzene	ND	10	99.3	102	2.71	93.1	92.6	0.552	70 - 130	30	70 - 130	30
Toluene	ND	10	99.7	100	0.682	93.5	93	0.502	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	106	106	0	99.9	99	0.918	70 - 130	30	70 - 130	30
Xylenes	ND	30	117	120	2.82	110	110	0	70 - 130	30	70 - 130	30
%SS:	89	10	90	92	1.80	88	88	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33045 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-004A	01/07/08 10:17 AM	01/08/08	01/08/08 5:08 PM	0801147-005A	01/07/08 10:51 AM	01/08/08	01/08/08 4:34 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0801147

EPA Method SW8015C	Extraction SW3510C/3630C				BatchID: 33046				Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	93.9	81.9	13.7	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	114	111	2.39	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33046 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-001A	01/07/08 8:10 AM	01/07/08	01/08/08 3:03 PM	0801147-002A	01/07/08 8:51 AM	01/07/08	01/08/08 4:11 PM
0801147-003A	01/07/08 12:15 PM	01/07/08	01/08/08 5:18 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8015C	Extraction SW3550C/3630C				BatchID: 33048				Spiked Sample ID: 0801147-006A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	9.9	20	70.7	71	0.199	93.8	92	1.96	70 - 130	30	70 - 130	30
%SS:	93	50	98	98	0	114	110	4.21	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33048 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-006A	01/07/08 9:29 AM	01/07/08	01/08/08 6:57 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 33049				Spiked Sample ID: 0801147-011A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	96.9	84.9	13.1	88.5	97.9	10.1	70 - 130	30	70 - 130	30
MTBE	ND	0.10	90.7	92	1.38	91.7	91.7	0	70 - 130	30	70 - 130	30
Benzene	ND	0.10	97.7	97.4	0.250	105	101	3.40	70 - 130	30	70 - 130	30
Toluene	ND	0.10	85.5	84.6	1.06	93.3	91	2.48	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	98.9	97.5	1.39	103	102	1.51	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	91.3	91	0.366	95.3	95.3	0	70 - 130	30	70 - 130	30
%SS:	85	0.10	99	96	2.74	105	103	1.45	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33049 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-010A	01/07/08 10:02 AM	01/07/08	01/09/08 2:11 AM	0801147-011A	01/07/08 10:37 AM	01/07/08	01/08/08 7:33 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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Piers Environmental 1330 S. Bascom Avenue, Ste. F San Jose, CA 95128	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
	Client Contact: Joel Greger	Date Reported: 01/14/08
	Client P.O.:	Date Completed: 01/18/08

WorkOrder: 0801147

January 18, 2008

Dear Joel:

Enclosed within are:

1) The results of the **3** analyzed samples from your project: **Coliseum Way,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8260B	Extraction SW5030B				BatchID: 33044			Spiked Sample ID: 0801146-025A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	109	110	0.571	115	113	1.57	70 - 130	30	70 - 130	30
Benzene	ND	0.050	118	117	0.433	120	120	0	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	86.5	97.8	12.2	91.4	91.5	0.181	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	93	93.6	0.659	103	104	0.271	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	81.8	84.1	2.82	92.8	90	3.01	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	109	110	1.06	107	108	0.581	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	126	123	2.42	128	129	0.576	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	127	127	0	129	129	0	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	116	116	0	116	114	1.85	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	105	104	0.775	111	110	1.01	70 - 130	30	70 - 130	30
Toluene	ND	0.050	90.9	91.7	0.916	99.5	99.4	0.0736	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	81	82	1.23	84.9	85.9	1.25	70 - 130	30	70 - 130	30
%SS1:	92	0.050	93	92	1.35	98	96	1.38	70 - 130	30	70 - 130	30
%SS2:	101	0.050	92	93	0.836	99	99	0	70 - 130	30	70 - 130	30
%SS3:	100	0.050	99	100	0.574	100	101	0.631	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33044 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-006A	01/07/08 9:29 AM	01/07/08	01/10/08 4:06 AM	0801147-010A	01/07/08 10:02 AM	01/07/08	01/10/08 4:52 AM
0801147-011A	01/07/08 10:37 AM	01/07/08	01/10/08 5:38 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | WorkOrder 0801147

EPA Method SW8260B	Extraction SW5030B				BatchID: 33011				Spiked Sample ID: 0801172-006B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	103	98.4	5.00	115	117	1.71	70 - 130	30	70 - 130	30
Benzene	ND	10	116	113	2.07	121	123	1.56	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	84.5	90.1	6.41	89.1	92.8	4.03	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	101	90.1	11.0	101	103	1.16	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	88.6	80.6	9.42	87.9	88.3	0.464	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	127	125	2.03	110	111	1.29	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	128	129	0.125	126	127	0.223	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	123	126	2.00	129	129	0	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	109	110	0.843	117	120	2.20	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	117	121	3.41	109	111	1.65	70 - 130	30	70 - 130	30
Toluene	ND	10	96.4	85.7	11.2	96.3	98	1.71	70 - 130	30	70 - 130	30
Trichloroethene	8.1	10	84.6	82	1.58	85.6	86.1	0.543	70 - 130	30	70 - 130	30
%SS1:	103	10	104	106	2.08	93	91	2.17	70 - 130	30	70 - 130	30
%SS2:	100	10	95	90	4.74	97	96	1.12	70 - 130	30	70 - 130	30
%SS3:	99	10	91	88	4.13	100	101	0.500	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33011 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-001B	01/07/08 8:10 AM	01/11/08	01/11/08 11:32 AM	0801147-002B	01/07/08 8:51 AM	01/11/08	01/11/08 12:17 PM
0801147-003B	01/07/08 12:15 PM	01/10/08	01/10/08 3:50 AM	0801147-004B	01/07/08 10:17 AM	01/10/08	01/10/08 4:36 AM
0801147-005B	01/07/08 10:51 AM	01/10/08	01/10/08 5:21 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

QA/QC Officer

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0801147

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☒ PDF ☒ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Joel Greger Bill To: PIERS
Company: PIERS Environmental
1330 S Bascom Ave, Suite F
E-Mail: piers@pierses.com
Tele: (510) 393-5382 Fax: (510) 787-1457
Project #: Project Name: Coliseum Way
Project Location: 7100 Coliseum Way, Oakland
Sampler Signature: [signature]

SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	ICE	HCL	BTEX & TPH as Gas (602/8021 + 8015)/MTBE	TPH as Diesel (8015) + motor oil w/ SGC	EPA 524.2/624/8260 (VOCs)	Other: PCBs	Other: 8260 added 7/15/08 5d
B1 water		7-1-08	8:10AM	4	[illegible]	x		x	x		x	x		
B2 water		↓	12:51PM			x		x	x		x	x		
B3 water			12:15PM	2	[illegible]	x		x	x		x	x		
B4 water			11:41AM	4	[illegible]	x		x	x	x		x		
B5 water			10:51AM		↓	x		x	x	x		x		
Comp B1A-D			9:24AM	4	jars		x	x			x	x	x	
B1 @ 2.5'			8:01AM	1	↓		x	x			~~x~~	~~x~~		⊗
B2 @ 10.5'			8:41AM	1			x	x			~~x~~	~~x~~		⊗
B3 @ 14.5			9:40AM	1			x	x			~~x~~	~~x~~		⊗
B4 @ 14.5			10:02AM	1			x	x		x		x		
B5 @ 13.5		↓	1:37PM	1	↓		x	x		x		x		

Comments: Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
[signature]	7/1/08	12:45pm	[signature]
[signature]	7/1/08	5:45	M. Vall

ICE/t° 6.0°C
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

COMMENTS:

PRESERVATION: VOAS ✓ O&G METALS pH<2 OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 080114 A **ClientID: PESJ**

☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Joel Greger
Piers Environmental
1330 S. Bascom Avenue, Ste. F
San Jose, CA 95128

Email: piers@pierses.com
TEL: (408) 559-1248 FAX: (408) 559-1224
ProjectNo: Coliseum Way
PO:

Bill to:
Jennifer
Piers Environmental
1330 S. Bascum Avenue, Ste. F
San Jose, CA 95128
jennifer@pierses.com

Requested TAT: 5 days
Date Received: 01/07/2008
Date Add-On: 01/15/2008
Date Printed: 01/15/2008

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0801147-007	B1d2.5'	Soil	01/07/08 8:01:00	☐	A											
0801147-008	B2d0.5'	Soil	01/07/08 8:41:00	☐	A											
0801147-009	B3d4.5'	Soil	01/07/08 9:40:00	☐	A											

Test Legend:

1	8260B_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments: B1d2.5', B2d0.5',B3d4.5' off hold for VOCs 1/15/08 5d per J.G

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/15/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/15/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-007A
Client ID	B1d2.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	0.061	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	107	%SS2:	101
%SS3:	97		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/15/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/15/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-008A
Client ID	B2d0.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	105	%SS2:	101
%SS3:	97		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Telephone: 877-252-9262 Fax: 925-252-9269

Piers Environmental	Client Project ID: Coliseum Way	Date Sampled: 01/07/08
		Date Received: 01/07/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 01/15/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 01/15/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0801147

Lab ID	0801147-009A
Client ID	B3d4.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	104	%SS2:	101
%SS3:	96		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0801147

EPA Method SW8260B	Extraction SW5030B				BatchID: 33164				Spiked Sample ID: 0801317-004A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	103	105	1.82	116	115	0.723	70 - 130	30	70 - 130	30
Benzene	ND	0.050	102	104	1.93	117	117	0	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	90	90.2	0.279	100	95.4	4.82	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	93.6	95.4	1.93	104	103	0.563	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	95.2	96.6	1.48	103	103	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	99.5	102	2.19	110	111	0.568	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	121	123	1.90	127	128	1.12	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	116	119	2.07	127	128	1.00	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	107	108	1.48	120	119	0.766	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	108	109	1.40	117	120	1.99	70 - 130	30	70 - 130	30
Toluene	ND	0.050	89.7	91.8	2.26	101	99.4	1.40	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	76.9	78.6	2.14	88.1	87.8	0.302	70 - 130	30	70 - 130	30
%SS1:	105	0.050	103	101	1.72	103	103	0	70 - 130	30	70 - 130	30
%SS2:	98	0.050	94	94	0	93	93	0	70 - 130	30	70 - 130	30
%SS3:	96	0.050	106	106	0	107	107	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 33164 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0801147-007A	01/07/08 8:01 AM	01/15/08	01/15/08 4:36 PM	0801147-008A	01/07/08 8:41 AM	01/15/08	01/15/08 5:21 PM
0801147-009A	01/07/08 9:40 AM	01/15/08	01/15/08 6:05 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

APPENDIX B

PERTINENT DATA FROM ENVIRONMENTAL INVESTIGATIONS ON ADJACENT PROPERTIES

SUPERIOR PLASTER CASTINGS PROPERTY

TABLE 1

ANALYTICAL RESULTS FOR SOIL AND GROUNDWATER SAMPLES(a)

Sample No.	Benzene	Toluene	Xylene	Ethlybenzene	TPH(b) (gasoline)	TPH (diesel)
Soil Samples						
Soil Boring No. 1						
SB1-1-2.5	ND<3(c)	6	ND<3	ND<3	ND<1	ND<10
Soil Boring No. 2						
SB2-2-4.5	ND<3	ND<3	ND<3	ND<3	ND<1	ND<10
Soil Boring No. 3						
SB3-3-3.5	11	4	5	13	3	690
SB3-4-8.5	ND<3	ND<3	ND<3	ND<3	1	ND<10
Soil Boring No. 4						
SB4-5-3.5	ND<3	5	ND<3	ND<3	ND<1	ND<10
Groundwater Samples						
Soil Boring No. 1						
SB1-1-W	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NA(d)	NA
Soil Boring No. 2						
SB2-3-W	ND<0.3	ND<0.3	ND<0.3	0.3	NA	NA
Soil Boring No. 3						
SB3-5-W	ND<0.3	ND<0.3	ND<0.3	5	NA	NA
Soil Boring No. 4						
SB4-7-W	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NA	NA

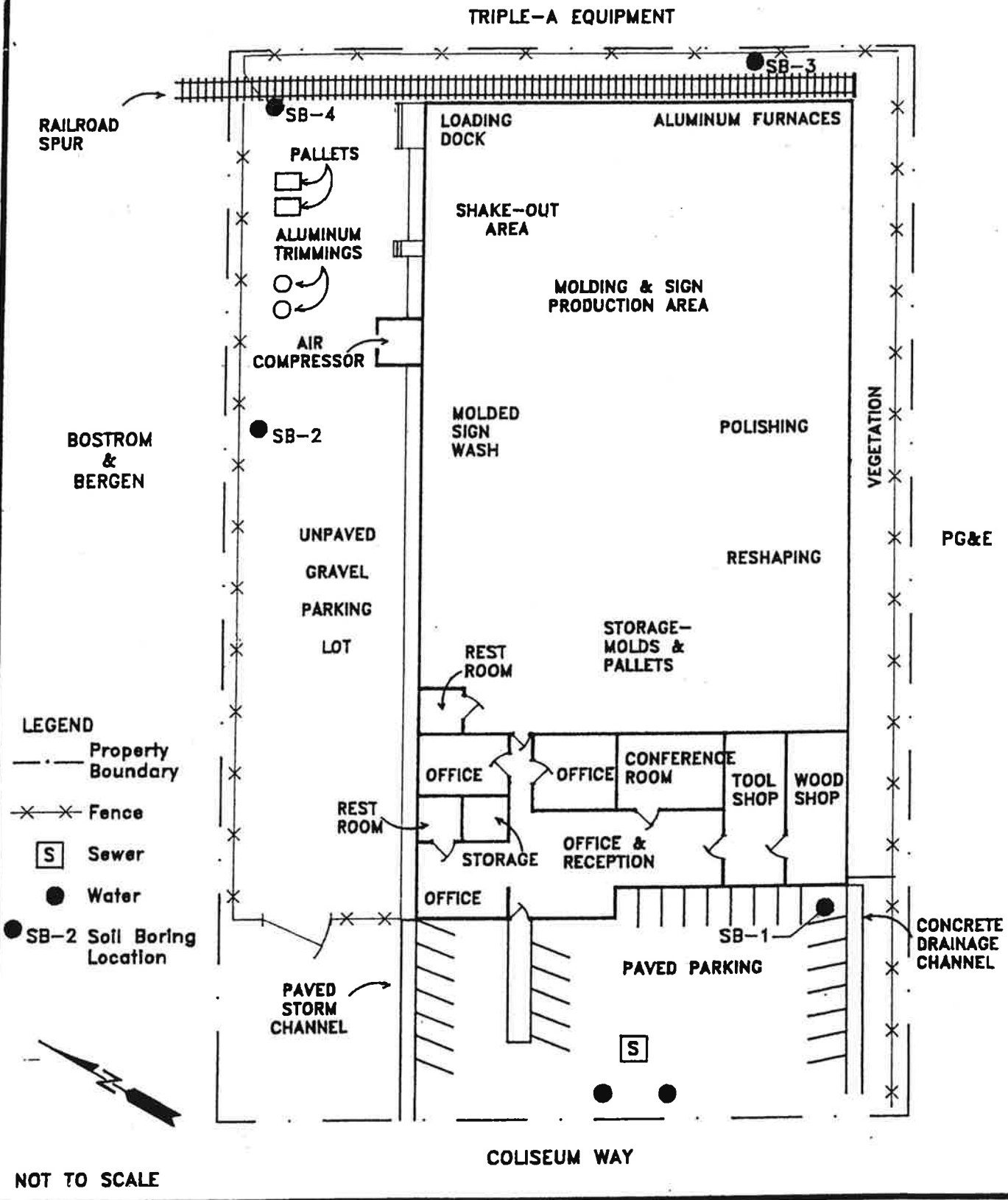
(a) Measured in parts per billion (ppb)
(b) TPH = Total Petroleum Hydrocarbons (TPH results are measured in parts per million [ppm])
(c) ND = Not Detected at Level Shown
(d) NA = No Analysis Taken

TABLE 2

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES(a)

Parameter	Sample Number				MCL
	SB1-2-W	SB2-4-W	SB3-6-W	SB4-8-W	(a)
Arsenic	0.035	0.054	0.027	0.073	0.050
Barium	1.4	1.6	1.2	3.1	5.000
Cadmium	<0.002(c)	<0.002	<0.002	<0.002	0.005
Chromium	0.49	0.65	0.31	0.88	0.100(b)
Lead	0.042	0.055	0.073	0.15	0.005(b)
Mercury	0.0024	0.0032	0.0020	0.0059	0.002(b)
Selenium	<0.003	<0.003	<0.003	<0.003	0.050(b)
Silver	<0.01	<0.01	<0.01	<0.01	0.050(b)

(a) MCL = Maximum Contaminant Level
(b) PMCL= Proposed Maximum Contaminant Level
(c) Not detected at level shown.



SOIL BORING LOCATION MAP
SUPERIOR PLASTER CASTINGS, INC.
OAKLAND, CALIFORNIA

SIMON-EEI Inc.

PROJECT NO:	FIGURE:
513-779.00.	2
DATE: MAY, 1991	

TABLE 1A

ANALYTICAL LABORATORY REPORT FOR SOIL SAMPLES

Sample Number	EPA Method 8015(a) Gasoline	Diesel
SB6-1-4.5	56	220
SB14-2-4.5	490	530
SB15-3-4.5	220	370
SB16-4-4.5	ND<10(b)	94

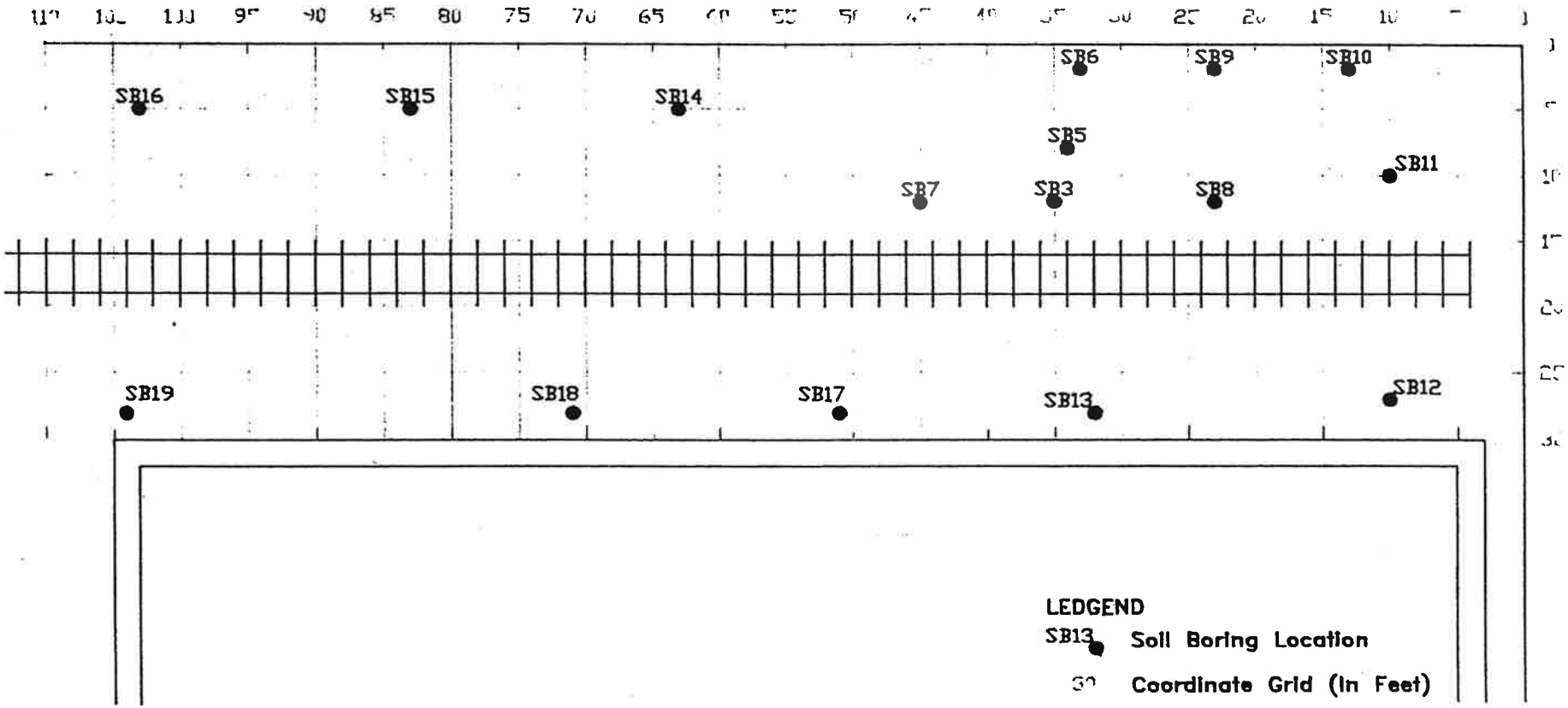
(a) Measured in parts per million (ppm)
(b) ND = Not Detected @ level shown

TABLE 1B

ANALYTICAL LABORATORY REPORT FOR SOIL SAMPLES

Sample Number	EPA 418.1(a) Total Petroleum Hydrocarbons
SB11-5-5.5	6200
SB12-6-5.5	2800
SB13-7-5.5	ND<50(b)
SB17-8-5.0	ND<50
SB18-9-5.5	2500
SB19-10-5.5	ND<50

(a) Measured in parts per million (ppm)
(b) ND = Not Detected @ level shown

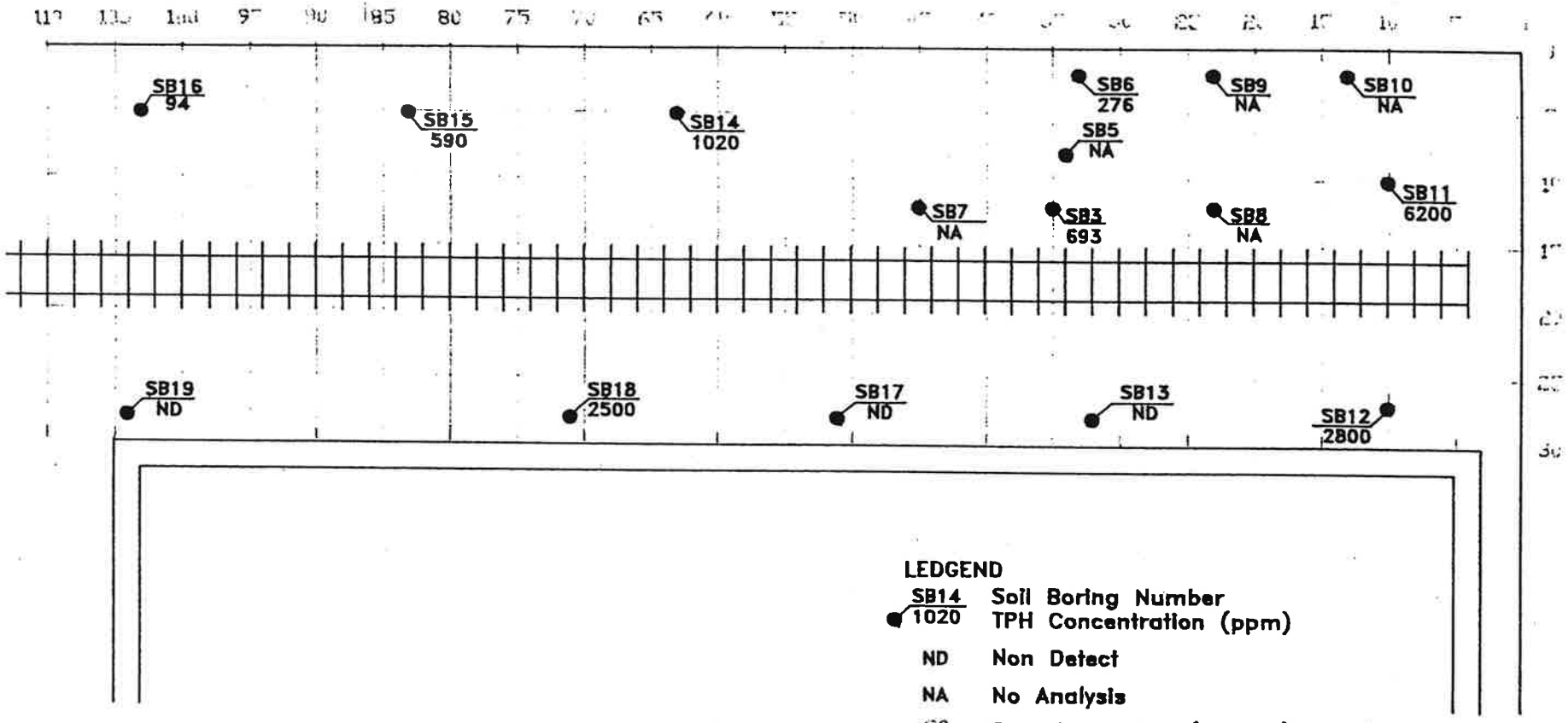


NOT TO SCALE

SOIL BORING LOCATION MAP
SUPERIOR PLASTER CASTINGS, INC.
OAKLAND, CALIFORNIA

SIMON-EEI Inc.

PROJECT NO:	FIGURE:
513-779.01	3
DATE: JUNE, 1991	



NOT TO SCALE

SOIL TOTAL PETROLEUM HYDROCARBONS CONCENTRATION MAP

SUPERIOR PLASTER CASTINGS, INC.

OAKLAND, CALIFORNIA

SIMON-EEI Inc.

PROJECT NO: 513-779.01	FIGURE: 4
DATE: JUNE, 1991	

integrity. All soil samples were collected in six-inch long brass liners and capped with aluminum, plastic caps, and tape. Immediately after sample collection, the soil samples were placed in a refrigerated ice chest. The chain of custody and the laboratory results are presented in Appendix A.

Test Results. Soil samples were analyzed by Sequoia Analytical using EPA-approved methods. Figure 1 shows the locations at which the samples were collected, while Table 1 presents the laboratory results. Samples TS3-1, TS3-2, and TS3-3 were all tested for the presence of lead and arsenic, as these heavy metals were reported in the previous Phase II assessment (Simon Environmental Engineering, 1991). The maximum detected concentration of lead in Earth Metrics three soil samples was 210 ppm in Sample TS3-2. The maximum concentration of arsenic detected in the three samples tested was 16 ppm. In comparison the California Total Threshold Limit Concentrations (TTLCs) are 1,000 ppm for lead and 500 ppm for arsenic.

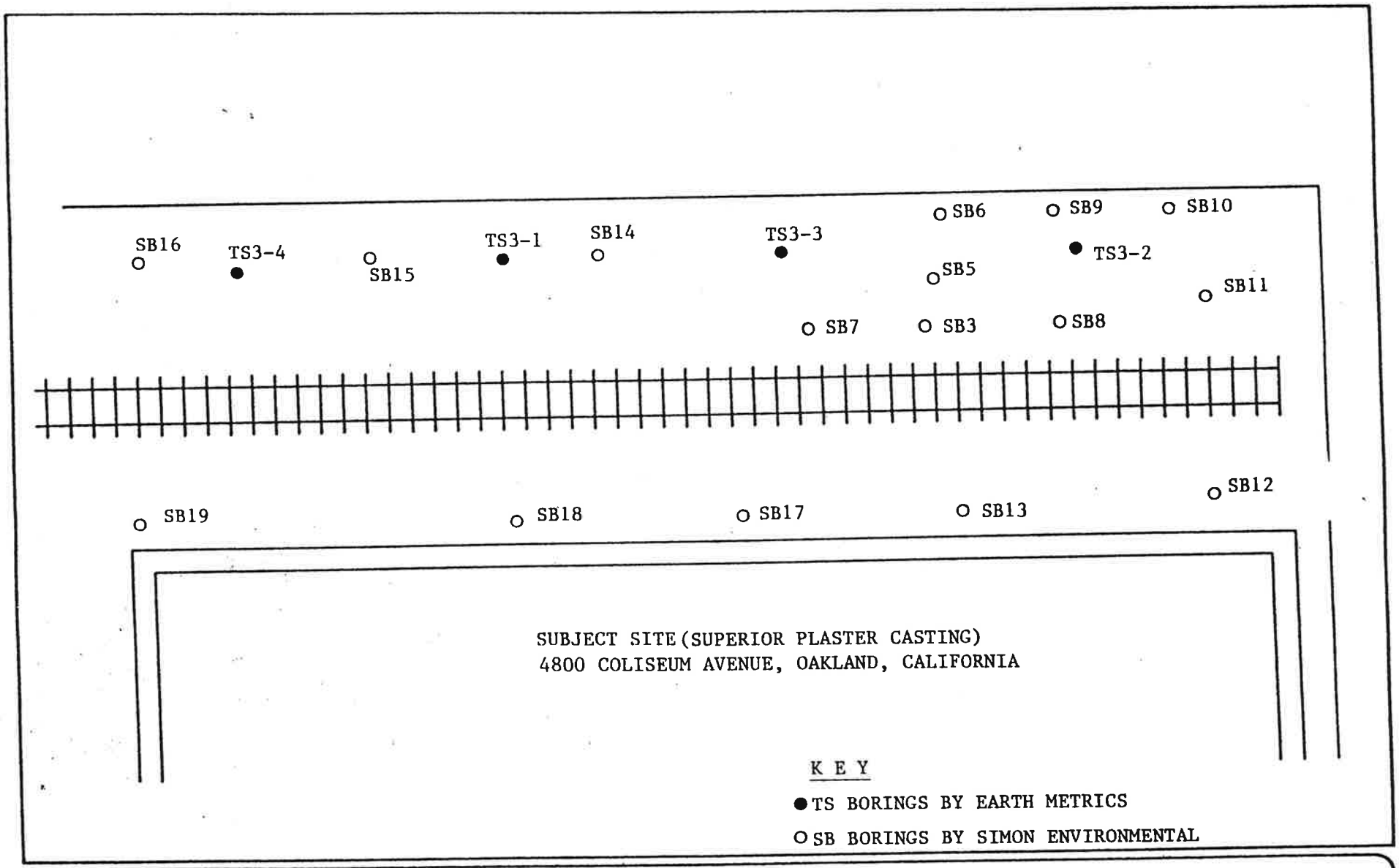
Soil sample TS3-2 was also tested for the presence of BTEX. Ethylbenzene was found at a concentration of 0.05 ppm and xylene was detected at a

TABLE 1. LABORATORY RESULTS OF SOIL SAMPLES COLLECTED AT 4800 COLISEUM AVENUE, OAKLAND

SAMPLE	TS3-1	TS3-2	TS3-3	TS3-4
Arsenic (ppm)	16	14	11	--
Lead (ppm)	140	210	78	--
Total Petroleum Oil and Grease (ppm) EPA 5520 E&F	--	--	--	29,000
Benzene (ppm) EPA 8020	--	ND (0.015)	--	--
Toluene (ppm) EPA 8020	--	ND (0.015)	--	--
Ethylbenzene (ppm) EPA 8020	--	0.05	--	--
Xylene (ppm) EPA 8020	--	0.12	--	--

ND: results below detection limit stated in parentheses.
--: sample not tested for this parameter
ppm: parts per million

Source: Earth Metrics, Sequoia Analytical, 1992.



earth metrics

N

SCALE
NOT TO SCALE

FIGURE 1. SOIL BORING LOCATION MAP

Table 1
Summary Soil Analytical Results
TPH as Gasoline, BTEX, Diesel, Oil and Grease, and HVOC

Sample ID	Approx. Depth, ft	TPH-g (a) EPA Method 8015, mg/kg (e)	BTEX (b) EPA Method 8020, mg/kg	TPH-d (c) EPA Method 8015, mg/kg	Oil and Grease EPA Method 5520EF, mg/kg	HVOC (d) EPA Method 8010, ug/kg (f)
WCC-1A	6	<0.5	Benzene <0.005 Toluene <0.005 Ethylbenzene <0.005 Xylenes <0.005	<10	40	1,3-Dichlorobenzene (2.0) 1,4-Dichlorobenzene(4.8)
	10.5	<0.5	Benzene <0.005 Toluene <0.005 Ethylbenzene <0.005 Xylenes 0.007	<10	47	None detected
WCC-1B	5	<0.5	Benzene <0.005 Toluene <0.005 Ethylbenzene <0.005 Xylenes <0.005	<10	Not Analyzed	None detected

(a) Total Petroleum Hydrocarbons as Gasoline
(b) Benzene, Toluene, Ethylbenzene, and Total Xylenes
(c) Total Petroleum Hydrocarbons as Diesel
(d) Halogenated Volatile Organic Compounds
(e) Concentrations in milligrams per kilogram (mg/kg)
(f) Concentrations in micrograms per kilogram (ug/kg)

Table 2
Summary Soil Analytical Results
RCRA Metals - Total Concentrations

		Metals, EPA 6000 & 7000, milligrams per kilogram (mg/kg)							
Sample ID	Depth, ft.	Silver (Ag)	Arsenic (As)	Barium (Ba)	Cadmium (Cd)	Total Chromium (Cr)	Mercury (Hg)	Lead (Pb)	Selenium (Se)
WCC-1A	6	<1.2	<5.0	160	<0.62	47.2	0.34	6.5	<2.5
	10.5	<1.2	6.3	176	<0.62	72.2	0.14	6.3	<2.5
WCC-1B	5	<1.2	6.2	221	<0.62	44.5	0.10	15.5	<2.5
WCC-2B	6.5	<1.2	4.3	62.5	<0.62	45.1	0.15	<5.0	<2.5
WCC-3B	5.5	<1.2	2.2	167	<0.62	31.8	<0.10	<5.0	<2.5
TTLC (a)		500	500	10,000	100	2,500 (Cr III [b])	20	1,000	100

(a) Total Threshold Limit Concentration

(b) Chromium III (most common isotope)

Table 3

Summary Water Analytical Results

TPH as Gasoline, BTEX, Diesel, Oil and Grease, HVOC, and RCRA Metals

Sample ID	TPH-g (a) EPA Method 8015, ug/L (e)	BTEX (b) EPA Method 8020, ug/L	TPH-d (c) EPA Method 8015, ug/L	Oil and Grease EPA Method 5520 , mg/L (f)	HVOC (d) EPA Method 601, ug/l	RCRA Metals EPA 6000 & 7000, ug/L
WCC-1A	4000 (g)	Xylenes (11)	7,300 (h)	12	Chlorobenzene (270) 1, 3-DCB (1,400; AL=130)(i) 1, 4-DCB (1,500; MCL=5)(j) 1, 2-DCB (290; AL=130)	Arsenic (24.1; MCL=50) Barium (226; MCL=1,000)
WCC-1A D	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Chlorobenzene (260) 1, 3-Dichlorobenzene (1,300) 1, 4-Dichlorobenzene (1,400) 1, 2-Dichlorobenzene (270)	Not Analyzed

(a) Total Petroleum Hydrocarbons as Gasoline

(b) Benzene, Toluene, Ethylbenzene, and Total Xylenes

(c) Total Petroleum Hydrocarbons as Diesel

(d) Halogenated Volatile Organic Compounds

(e) Concentrations reported in micrograms per liter (ug/L)

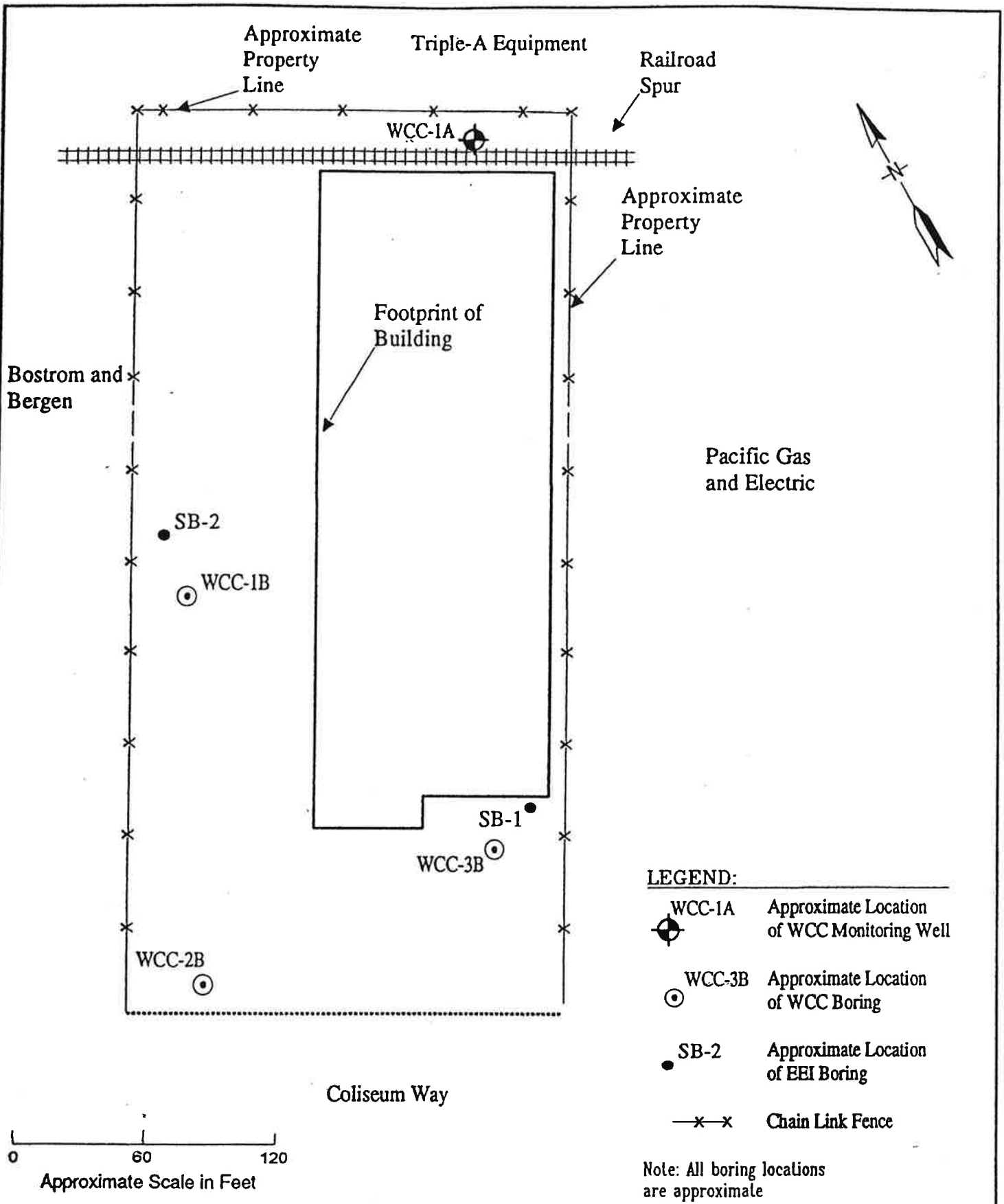
(f) Concentrations reported in milligrams per liter (mg/L)

(g) Laboratory reported that peaks reported as gasoline were primarily unidentified dichlorobenzene isomers. Laboratory could not identify specific isomers, because their instrument was not properly calibrated.

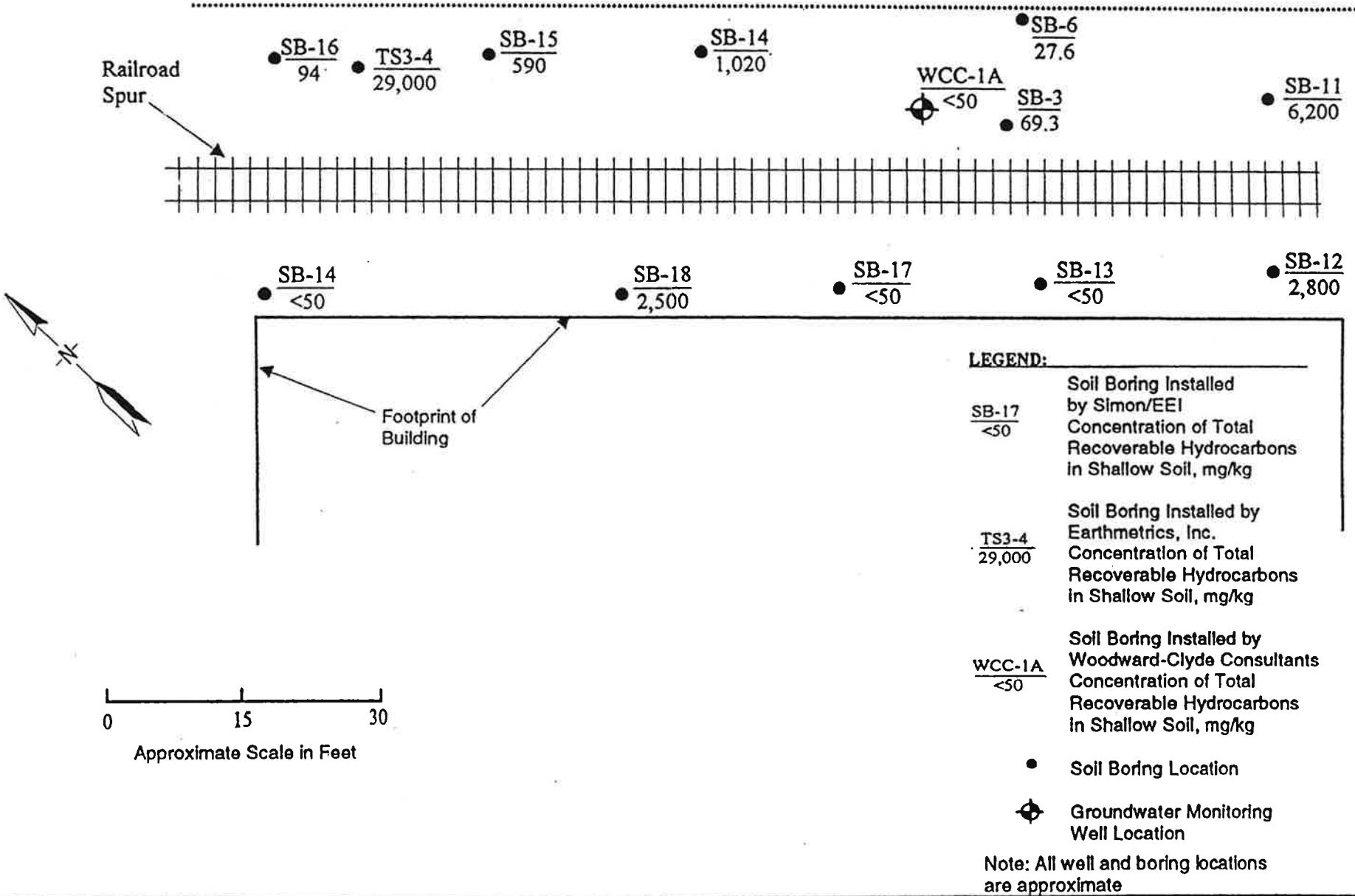
(h) Laboratory reported that peaks identified as diesel fuel were primarily a heavier petroleum prioduct, probably hydraulic or motor oil.

(i) AL indicates California Action Level

(j) MCL indicates California Maximum Contaminant Level



Project No. 92C-0480R 02/25/93	Superior Plaster Castings, Inc. 4800 Coliseum Way Oakland, California	SITE AND BORING LOCATION PLAN	Figure 2



Project No. 92C-0480R 02/26/93	Superior Plaster Castings, Inc. 4800 Coliseum Way Oakland, California	ENLARGED PLAN OF SOIL BORINGS	Figure 3
Woodward-Clyde Consultants			

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FOR ORGANIC CONSTITUENTS
METALCAST
OAKLAND, CALIFORNIA

Sample ID	Sample Date	TPH-G (mg/kg	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Detected HVOCs (EPA 8010)				TPH-M (mg/kg)	TPH-D (mg/kg)
								MCB (ug/kg)	o-DCB (ug/kg)	m-DCB (ug/kg)	p-DCB (ug/kg)		
ATC-1-4ft	10/08/98	1,000	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 5.0	ND 5.0	ND 5.0	ND 5.0	5,700	3,800
ATC-2-4ft	10/08/98	1.9	ND 0.0050	ND 0.0050	ND 0.0050	0.0082	ND 0.025	27	ND 5.0	50	130	45	11
ATC-3-3ft	10/08/98	160	0.056	ND 0.050	ND 0.050	0.12	ND 0.25	3,800	ND 5.0	19,000	33,000	29,000	13,000
ATC-4-4ft	10/08/98	170	ND 0.10	ND 0.10	ND 0.10	ND 0.10	ND 0.50	NA	NA	NA	NA	3,100	1,700
ATC-5-3.5ft	10/08/98	ND 1.0	ND 0.0050	ND 0.0050	ND 0.0050	ND 0.0050	ND 0.025	ND 5.0	ND 5.0	ND 5.0	ND 5.0	2,700	200
ATC-6-1ft	10/08/98	120	ND 0.050	0.22	0.18	0.78	ND 0.25	ND 5.0	ND 5.0	ND 5.0	ND 5.0	17,000	6,700
ATC-7-4ft	10/08/98	700	ND 0.25	ND 0.25	ND 0.25	ND 0.25	ND 1.2	ND 5.0	ND 5.0	ND 5.0	ND 5.0	23,000	11,000
ATC-8-4ft	10/08/98	250	ND 0.12	ND 0.12	ND 0.12	ND 0.12	ND 0.62	NA	NA	NA	NA	630	490
ATC-9-4ft	10/08/98	1,000	ND 0.50	ND 0.50	ND 0.50	ND 0.50	ND 2.5	ND 5.0	ND 5.0	ND 5.0	ND 5.0	8,600	7,200

Notes:

TPH-G denotes total petroleum hydrocarbons as gasoline
TPH-D denotes total petroleum hydrocarbons as diesel
TPH-M denotes total petroleum hydrocarbons as motor oil
MCB denotes chlorobenzene
o-DCB denotes 1,2-dichlorobenzene
m-DCB denotes 1,3-dichlorobenzene
p-DCB denotes 1,4-dichlorobenzene
MTBE denotes methyl tert-butyl ether
ug/kg denotes micrograms per kilogram
mg/kg denotes milligrams per kilogram
ND denotes not detected above listed detection limit
NA denotes not analyzed
1,1-Dichlorethane (2,400 ug/kg) was detected in soil sample ATC-3-3ft.

TABLE 2

SUMMARY OF SOIL SAMPLE ANAYLTICAL RESULTS FOR INORGANIC CONSTITUENTS METALCAST OAKLAND, CALIFORNIA

Sample ID	Sample Date	As (mg/kg)	Ag (mg/kg)	Ba (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Hg (mg/kg)	Pb (mg/kg)	Se (mg/kg)
TTLC		500	500	10,000	100	500	20	1000	100
ATC-1-4ft	10/08/98	6.6	ND 0.50	320	ND 0.50	50	0.073	13	ND 5.0
ATC-2-4ft	10/08/98	14	ND 0.50	270	0.68	36	0.12	150	ND 5.0
ATC-3-3ft	10/08/98	12	ND 0.50	1,000	0.65	30	0.16	250	ND 5.0
ATC-5-3.5ft	10/08/98	ND 5.0	ND 0.50	35	ND 0.50	15	ND 0.050	ND 5.0	ND 5.0
ATC-6-1ft	10/08/98	ND 5.0	ND 0.50	61	0.86	11	ND 0.050	13	ND 5.0
ATC-7-4ft	10/08/98	ND 5.0	ND 0.50	120	ND 0.50	22	0.055	35	ND 5.0
ATC-9-4ft	10/08/98	ND 5.0	ND 0.50	160	ND 0.50	35	0.054	7.4	ND 5.0

Notes:

TTLC denotes Total Threshold Limit Concentration

Metals symbols taken from the Periodic Table of Elements:

As = Arsenic, Ag = Silver, Ba = Barium, Cd = Cadmium, Cr = Chromium,

Hg = Mercury, Pb = Lead, Se = Selenium

mg/kg denotes milligrams per kilogram

ND denotes not detected above listed detection limit

TABLE 3

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS FOR ORGANIC CONSTITUENTS METALCAST OAKLAND, CALIFORNIA

Sample ID	Sample Date	TPH-G (ug/l)	TPH-D (ug/l)	TPH-M (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Total Xylenes (ug/l)	MTBE (ug/l)	Detected HVOCs (EPA 8010)			
										MCB (ug/l)	o-DCB (ug/l)	m-DCB (ug/l)	p-DCB (ug/l)
Primary MCLs		-	-	-	1	1000	680	1750	-	70	600	130*	5
ATC-1	10/08/98	1,400	19,000	18,000	5.3	ND 5.0	7.5	ND 5.0	ND 25	370	32	370	450
ATC-2	10/08/98	980	1,500	2,300	2.3	ND 2.5	1.4	1.4	ND 12	92	32	590	970
ATC-3	10/08/98	440	6,700	16,000	ND 2.5	ND 2.5	ND 2.5	ND 2.5	ND 12	ND 50	ND 50	120	250
ATC-4	10/08/98	950	1,400	1,200	ND 5.0	ND 5.0	ND 5.0	ND 5.0	ND 25	NA	NA	NA	NA
ATC-5	10/08/98	270	20,000	65,000	1.8	9.4	1.7	7.0	ND 25	16	3.3	27	42
ATC-7	10/08/98	1,900	2,200	ND 2,000	ND 5.0	ND 5.0	ND 5.0	ND 5.0	ND 25	210	54	730	1,000
ATC-8	10/08/98	360	15,000	14,000	ND 2.5	ND 2.5	3.5	11	ND 12	NA	NA	NA	NA
ATC-9	10/08/98	3,000	9,300	15,000	ND 10	ND 10	ND 10	ND 10	ND 50	33	190	440	380
WELL-1	10/08/98	2,300	1,700	1,600	4.3	ND 5.0	1.3	2.4	ND 25	220	56	900	1,500

Notes:
Primary MCLs (Maximum Contaminant Levels) from California Dept.of Health Services; if none exist, USEPA levels are listed
TPH-G denotes total petroleum hydrocarbons as gasoline
TPH-D denotes total petroleum hydrocarbons as diesel
TPH-M denotes total petroleum hydrocarbons as motor oil
MTBE denotes methyl tert-butyl ether
MCB denotes chlorobenzene
o-DCB denotes 1,2-dichlorobenzene
m-DCB denotes 1,3-dichlorobenzene
p-DCB denotes 1,4-dichlorobenzene
ug/l denotes micrograms per liter
NA denotes not analyzed
ND denotes not detected above listed detection limit
* State action level for m-DCB is 130 ug/l

TABLE 4

SUMMARY OF GROUNDWATER SAMPLE ANAYLTICAL RESULTS FOR INORGANIC CONSTITUENTS METALCAST OAKLAND, CALIFORNIA

Sample ID	Sample Date	As (mg/l)	Ag (mg/l)	Ba (mg/l)	Cd (mg/l)	Cr (mg/l)	Hg (mg/l)	Pb (mg/l)	Se (mg/l)
Primary MCL		0.050	0.050	1.000	0.010	0.050	0.002	0.050	0.010
ATC-1	10/08/98	ND 0.10	ND 0.010	0.23	ND 0.010	ND 0.010	ND 0.00020	ND 0.10	ND 0.10
ATC-2	10/08/98	ND 0.10	ND 0.010	0.23	ND 0.010	0.014	ND 0.00020	ND 0.10	ND 0.10
ATC-3	10/08/98	ND 0.10	ND 0.010	0.26	ND 0.010	0.010	ND 0.00020	ND 0.10	ND 0.10
ATC-5	10/08/98	ND 0.10	ND 0.010	0.25	ND 0.010	0.033	0.00041	ND 0.10	ND 0.10
ATC-7	10/08/98	ND 0.10	ND 0.010	0.19	ND 0.010	0.013	ND 0.00020	ND 0.10	ND 0.10
ATC-9	10/08/98	ND 0.10	ND 0.010	0.39	ND 0.010	ND 0.010	ND 0.00020	ND 0.10	ND 0.10
WELL-1	10/08/98	ND 0.10	ND 0.010	0.20	ND 0.010	ND 0.010	ND 0.00020	ND 0.10	ND 0.10

Notes:

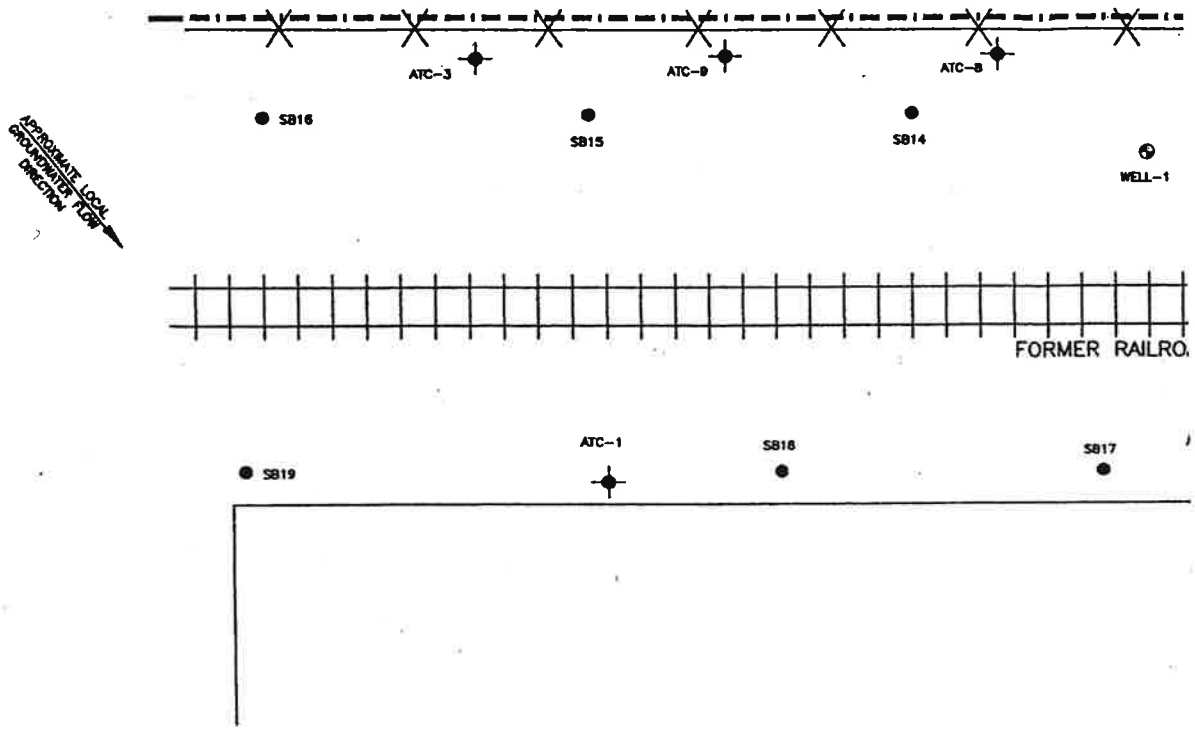
Primary MCLs (Maximum Contaminant Levels) from California Dept.of Health Services; if none exist, USEPA levels are listed

Metals symbols taken from the Periodic Table of Elements:

As = Arsenic, Ag = Silver, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Ni = Nickel, Pb = Lead, Se = Selenium

mg/l denotes milligrams per liter

ND denotes not detected above listed detection limit

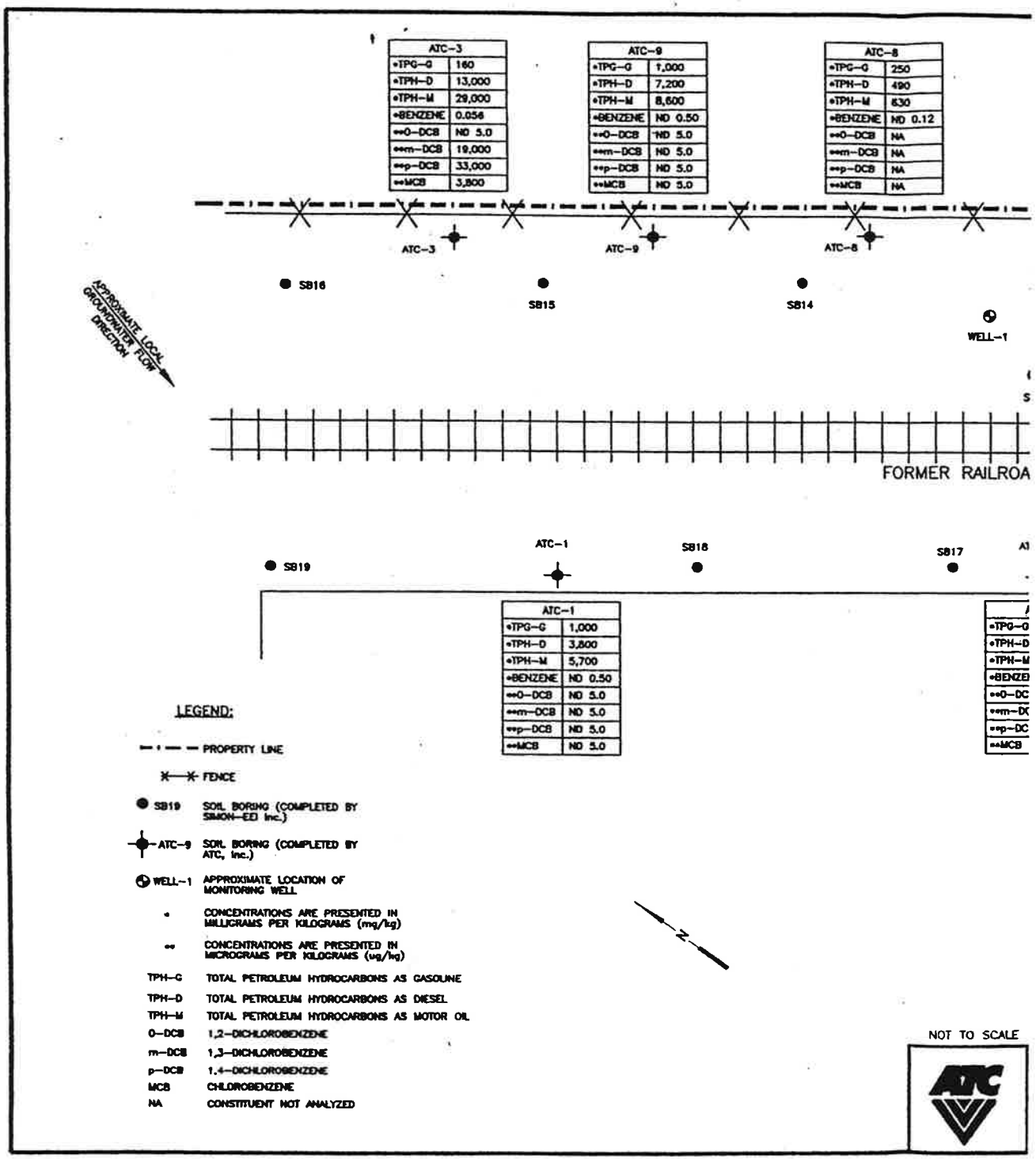


LEGEND:

- PROPERTY LINE
- FENCE
- SB19 SOIL BORING (COMPLETED BY SIMON-EEI Inc.)
- ATC-9 SOIL BORING (COMPLETED BY ATC, Inc.)
- WELL-1 APPROXIMATE LOCATION OF MONITORING WELL

N

NOT TO SCALE


ATC-3
•TPG-G 160
•TPH-D 13,000
•TPH-M 29,000
•BENZENE 0.056
••O-DCB ND 5.0
••m-DCB 19,000
••p-DCB 33,000
••MCB 3,800
ATC-9
•TPG-G 1,000
•TPH-D 7,200
•TPH-M 8,600
•BENZENE ND 0.50
••O-DCB ND 5.0
••m-DCB ND 5.0
••p-DCB ND 5.0
••MCB ND 5.0
ATC-8
•TPG-G 250
•TPH-D 490
•TPH-M 630
•BENZENE ND 0.12
••O-DCB NA
••m-DCB NA
••p-DCB NA
••MCB NA
ATC-3
ATC-9
ATC-8
SB16
SB15
SB14
WELL-1
APPROXIMATE LOCAL GROUNDWATER FLOW DIRECTION
FORMER RAILROA
SB19
ATC-1
SB18
SB17
ATC-1
•TPG-G 1,000
•TPH-D 3,800
•TPH-M 5,700
•BENZENE ND 0.50
••O-DCB ND 5.0
••m-DCB ND 5.0
••p-DCB ND 5.0
••MCB ND 5.0
LEGEND:
PROPERTY LINE
FENCE
SB19 SOIL BORING (COMPLETED BY SIMON-ED Inc.)
ATC-9 SOIL BORING (COMPLETED BY ATC, Inc.)
WELL-1 APPROXIMATE LOCATION OF MONITORING WELL
• CONCENTRATIONS ARE PRESENTED IN MILLIGRAMS PER KILOGRAMS (mg/kg)
•• CONCENTRATIONS ARE PRESENTED IN MICROGRAMS PER KILOGRAMS (ug/kg)
TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TPH-M TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
O-DCB 1,2-DICHLOROBENZENE
m-DCB 1,3-DICHLOROBENZENE
p-DCB 1,4-DICHLOROBENZENE
MCB CHLOROBENZENE
NA CONSTITUENT NOT ANALYZED
NOT TO SCALE

reported in μg/Kg.

Sample Number	Location	Chloro-benzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
E-1	Sidewall	<5	<5	12	10
E-2	Bottom	<5	27	160	75
E-3	Sidewall	<5	<5	<5	<5
E-4	Sidewall	<5	<5	<5	8.6
E-5	Sidewall	<5	<5	80	78
E-6	Bottom	<5	14	130	230
E-7	Sidewall	<5	<5	<5	<5

Note:
<5 Not detected at or above laboratory detection limit indicated

The four soil samples collected from the stockpiles were analyzed and found to contain 19 μg/Kg chlorobenzene, 19 μg/Kg 1,2-DCB, 70 μg/Kg 1,3-DCB and 110 μg/Kg 1,4-DCB. Additional analyses were requested on June 23, 2000 to characterize the soil for proper disposal.

DISCUSSION OF RESULTS

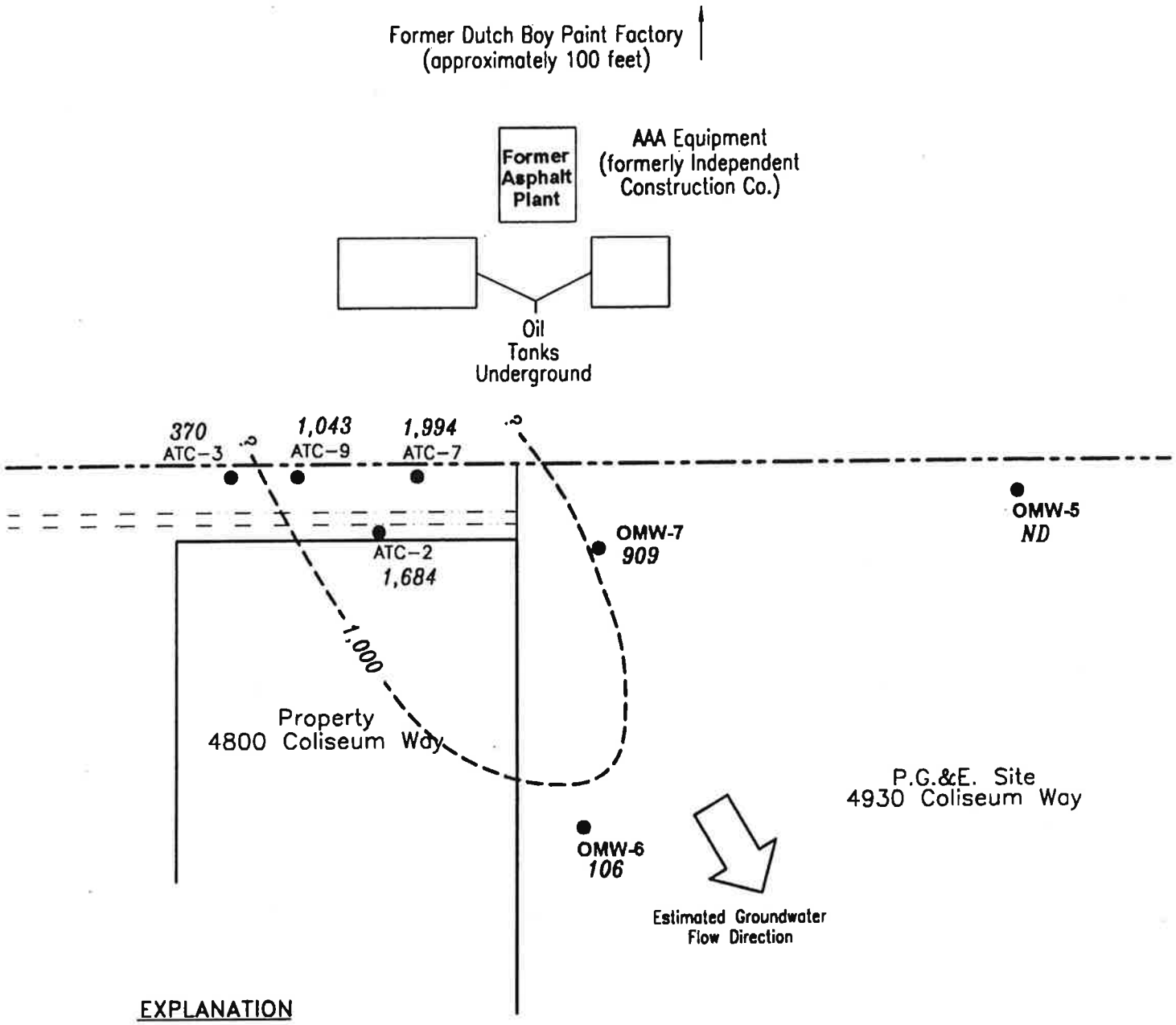
The soil analytical results indicate the elevated concentrations of CB and DCB were removed from the area of soil boring ATC-3. Sample E-2 collected 1.5 feet beneath the sample collected by ATC contained 262 μg/Kg total solvents compared to a previous concentration of 55,800 μg/Kg total solvents. Only low concentrations of solvents (maximum of 374 μg/Kg total solvents) were detected in the other confirmation samples.

The maximum concentration of total solvent in an excavation soil sample (374 μg/Kg) is roughly 100 times less than the total solvent concentration detected in soil from location ATC-3 in 1998, although the difference in depth is only 1.5 feet. Thus it appears that the clay underlying the tar-bearing fill has retarded the downward migration of the solvents. Furthermore, the dissolved solvents in the groundwater beneath the Property appear to have migrated from an up-gradient source to the north.

CONCLUSIONS

Based on the work previously performed (Phase 1 ESA) and the results of the soil excavation and sampling, ERAS concludes the following regarding the Property.

- No activities conducted on the Property appear to have contributed to the underlying solvent contamination



EXPLANATION

Base: Sanborn Fire Insurance Map, 1951

Total dissolved solvent concentrations from groundwater samples collected 10/08/98

Total dissolved solvent concentrations from groundwater samples collected 12/17/98

● Soil boring/monitoring well

106 Concentrations of total CB and DCB in groundwater samples (ugls)

N

0 40

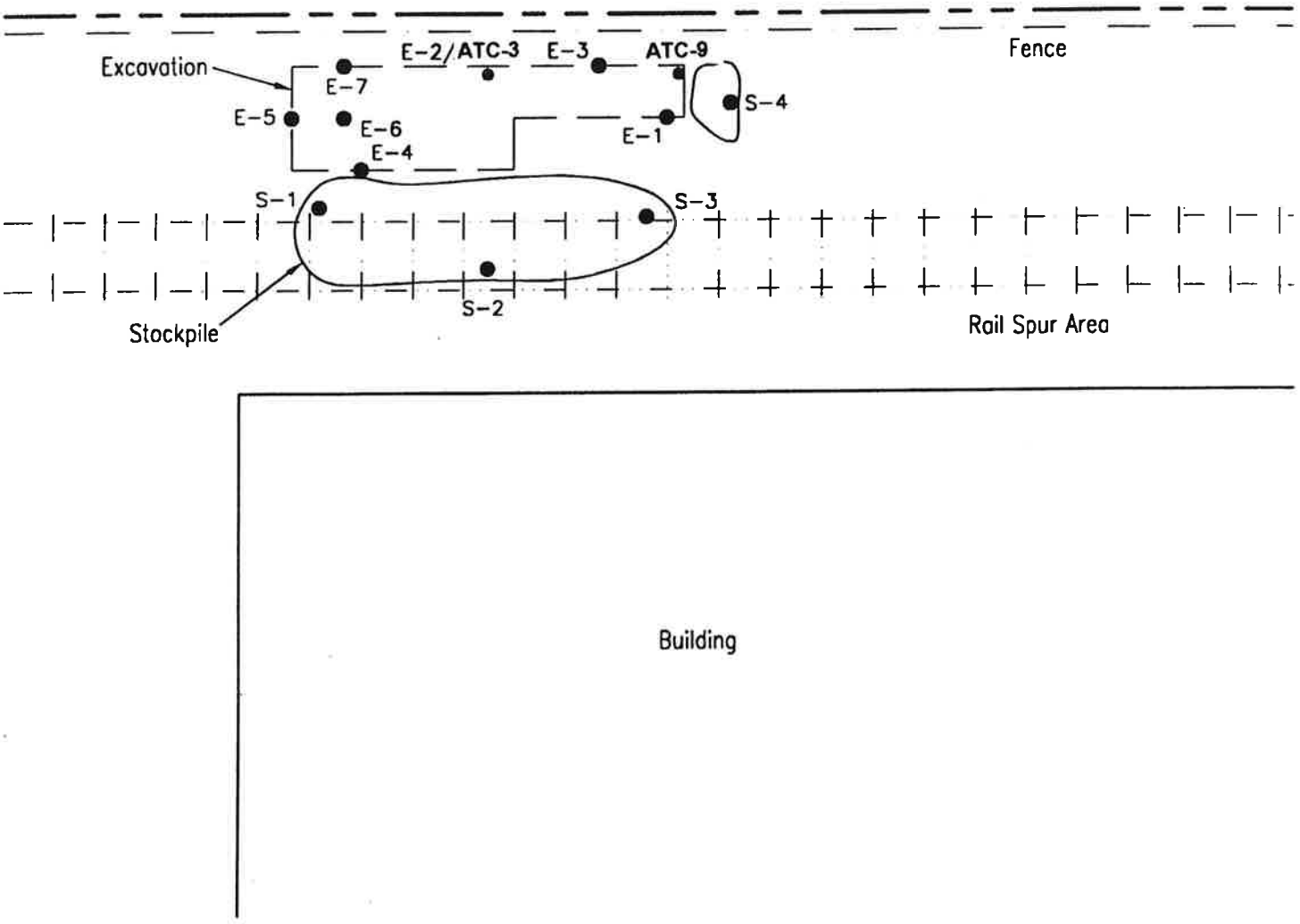
Scale in Feet

VICINITY MAP **FIGURE 2**

Project No. 00047A
4800 Coliseum Way
Oakland, California

June, 2000
Not to Scale

ERAS Environmental



EXPLANATION

E-1 ● **Soil sample** (ERAS Env.)

ATC-3 ● **Soil boring** (ATC)

E Excavation sample

S Stockpile sample

N

0 10

Scale in Feet

SAMPLE LOCATION MAP **FIGURE 3**

Project No. 00047A
4800 Coliseum Way
Oakland, California

June, 2000
Not to Scale

ERAS Environmental

PG&E PROPERTY

TABLE 1
Summary of Groundwater Elevation Data

Pacific Gas and Electric Company
Oakland General Construction Yard
4930 Coliseum Way, Oakland, CA

Well Number	Sample Date	TOC Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Groundwater Elevation (feet above MSL)
OW-1	11/6/2007	11.82	4.05	7.77
OW-2	11/6/2007	11.24	4.14	7.10
OW-4	11/6/2007	12.82	4.64	8.18
OW-5	11/6/2007	13.24	4.90	8.34
OW-6	11/6/2007	13.61	5.23	8.38
OW-7	11/6/2007	15.00	6.67	8.33
OW-8	11/6/2007	11.19	3.46	7.73

Notes:

TOC = top of casing
MSL = Mean Sea Level
bgs = below ground surface
NM = Not measured. Well was not found/un-accessible due to storage container.
TOC elevation data were referenced from Figure 4.2-Historical Groundwater Elevations, (Semi-Annual Groundwater Monitoring Report, September 2, 2005, CSS Environmental Services, Inc.).

ITSI Innovative Technical Solutions, Inc.

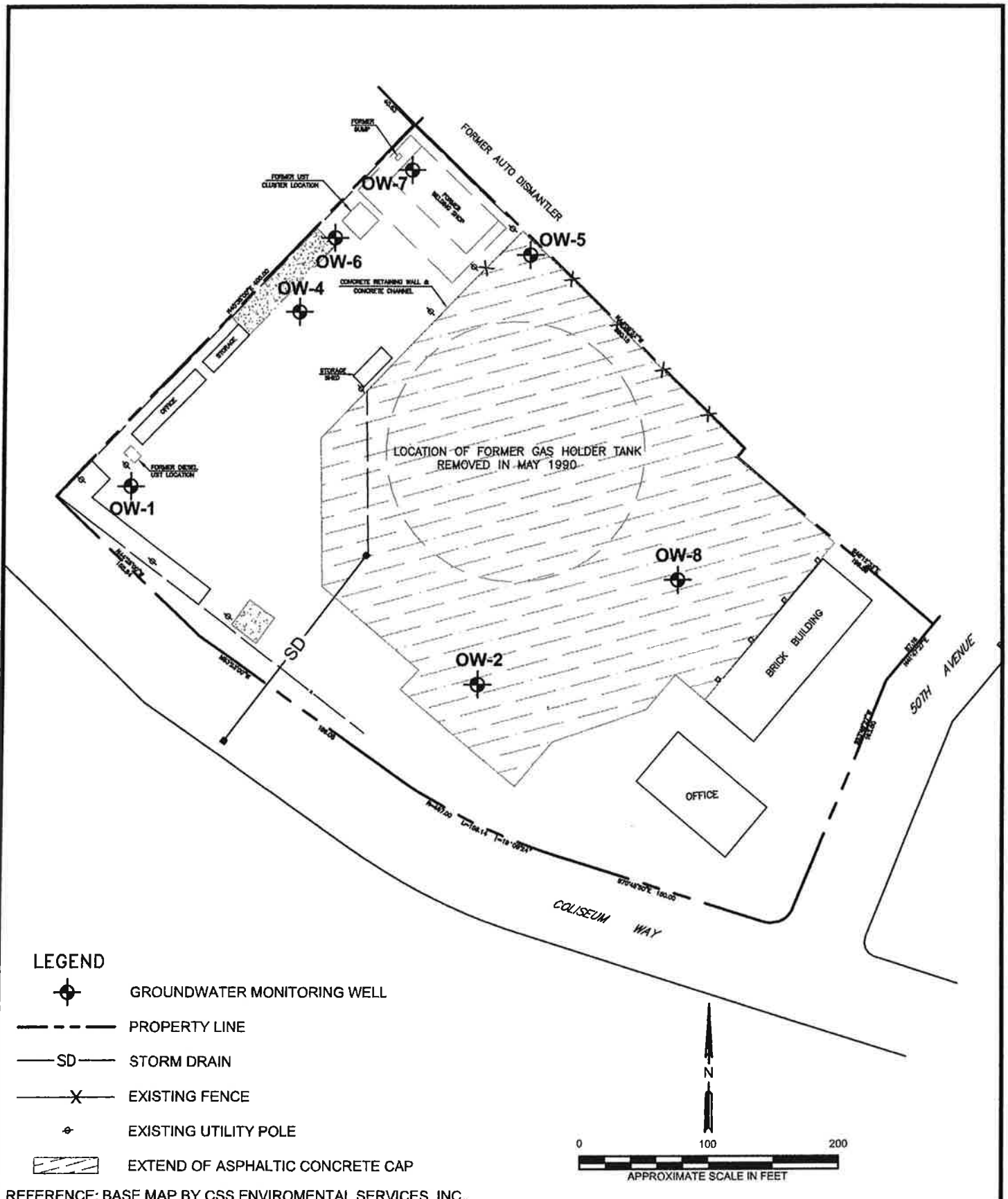
Table 2 Summary of Groundwater Analytical Results (November 6, 2007)
Pacific Gas and Electric Oakland General Construction Yard
Oakland, California

		Total Petroleum Hydrocarbons Method 8015M			Dissolved Lead Method 6010B	Volatile Organic Compounds-Method 8260B																			
Sample Name	Sample Date	TPHg µg/L	TPHd µg/L	TPHmo µg/L	µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	Isopropyl-benzene µg/L	Naph-thalene µg/L	MTBE µg/L	1,2,3-TCB µg/L	1,2,4-TCB µg/L	1,3,5-TMB µg/L	1,2-DCA µg/L	1,2-DCB µg/L	1,3-DCB µg/L	1,4-DCB µg/L	CB µg/L	1,1,1-TCA µg/L	1,1-DCA µg/L	1,1-DCE µg/L	VC µg/L	Other VOCs µg/L
OW-1	11/06/07	80	140/<50*	<100/<100*	<8	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	1.6	<0.5	<0.5	2.2	21	68	4.2	<0.5	5.1	6.0	<0.5	ND
OW-2	11/06/07	--	210/<50*	<100/<100*	<8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OW-4	11/06/07	<50	310/<50*	100/<100*	<8	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
OW-5	11/06/07	50	380/<50*	200/<100*	<8	6.8	<0.5	<0.5	<0.5	1.6	32	<0.5	<0.5	1.2	1.4	<0.5	<0.5	0.8	3.8	<0.5	<0.5	1.4	<0.5	<0.5	(1)
OW-6	11/06/07	<50	220/<50*	100/<100*	<8	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	8.1	28	3.2	<0.5	8.4	5.2	<0.5	ND
OW-7	11/06/07	250	400/<50*	200/<100*	<8	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	22	<0.5	0.9	12	56	200	40	<0.5	5.5	3.3	<0.5	ND
OW-8	11/06/07	--	280/<50*	100/<100*	<8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FIELD BLANK	11/06/07	--	--	--	<8	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND

Notes:

(1) =Sec-butyl Benzene detected at 1.1 µg/L and n-Propylbenzene detected at 0.7 µg/L
µg/L = Micrograms per liter.
< = Not detected at or above the practical quantitation limit.
-- = Not analyzed
ND = Not detected above laboratory reporting limits. See laboratory analytical report for individual reporting limits (Appendix C).
J = Estimated result. Result is less than the laboratory practical quantitation limit.
MTBE = Methyl tertiary-butyl ether
CB = Chlorobenzene
1,2-DCB = 1,2-Dichlorobenzene
1,3-DCB = 1,3-Dichlorobenzene
1,4-DCB = 1,4-Dichlorobenzene
1,2-DCA = 1,2-Dichloroethane
1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
1,2,3-TCB = 1,2,3-Trichlorobenzene
1,2,4-TCB = 1,2,4-Trichlorobenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene
VC = Vinyl Chloride
* = TPHd/TPHmo analyzed using silica gel cleanup

ITSI Innovative Technical Solutions, Inc.



LEGEND

- GROUNDWATER MONITORING WELL
- PROPERTY LINE
- SD — STORM DRAIN
- EXISTING FENCE
- EXISTING UTILITY POLE
- EXTEND OF ASPHALTIC CONCRETE CAP

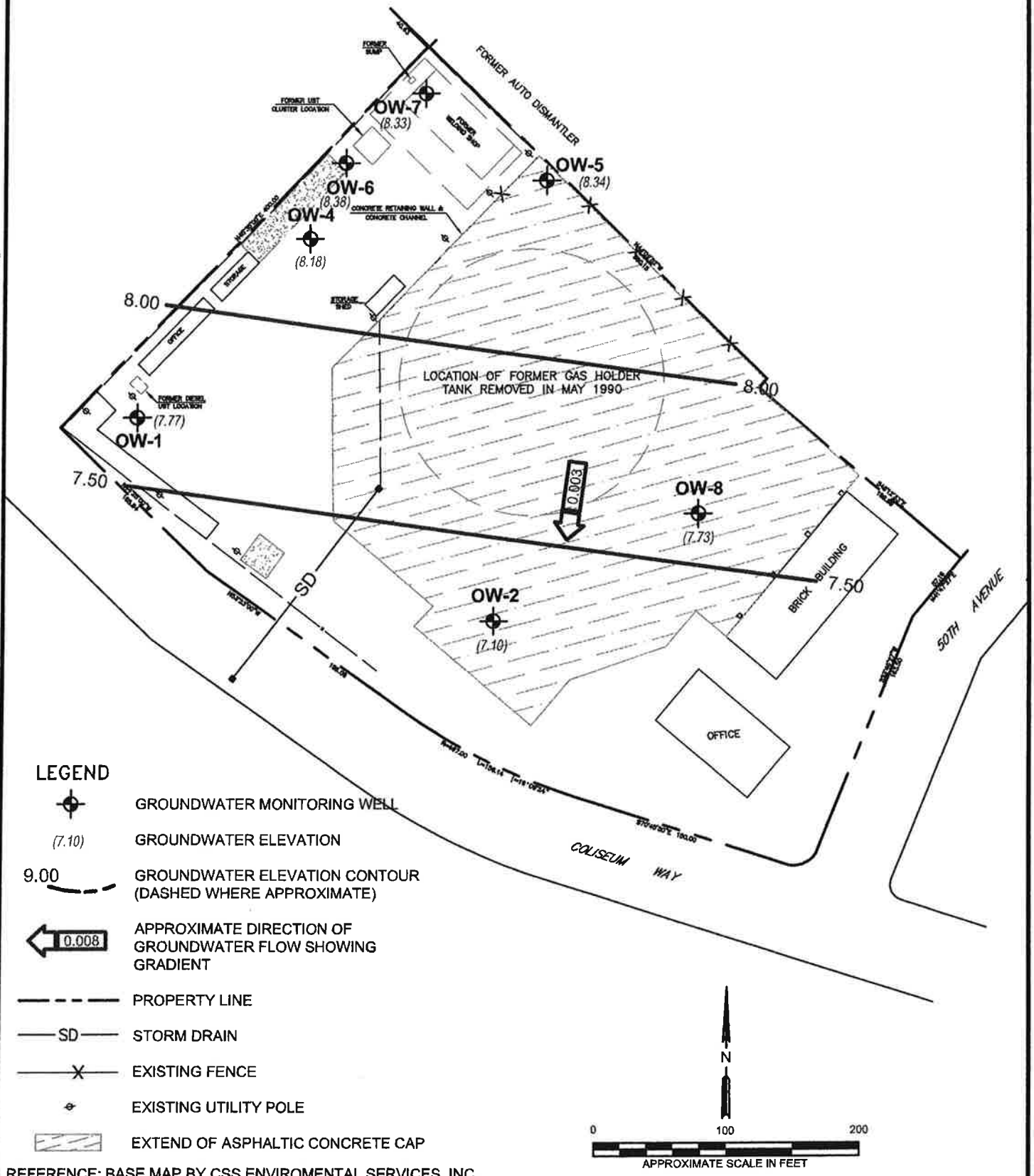
REFERENCE: BASE MAP BY CSS ENVIROMENTAL SERVICES, INC.
FIGURE 4.1 BY ES DATED 08/2005
JOB #6118; 01/1999

ITSI Innovative Technical Solutions, Inc.

Pacific Gas and Electric
Oakland General Construction Yard
Oakland, California

FIGURE 2
Site Plan

FILENAME: P:\07037 PG&E_Entrix\07037.0018 PGE-14 Oakland SC UST Program\10.0 CADD\400_CADD Current Drawings\07037.0018 OKLND SC Figure 2-3-4.dwg



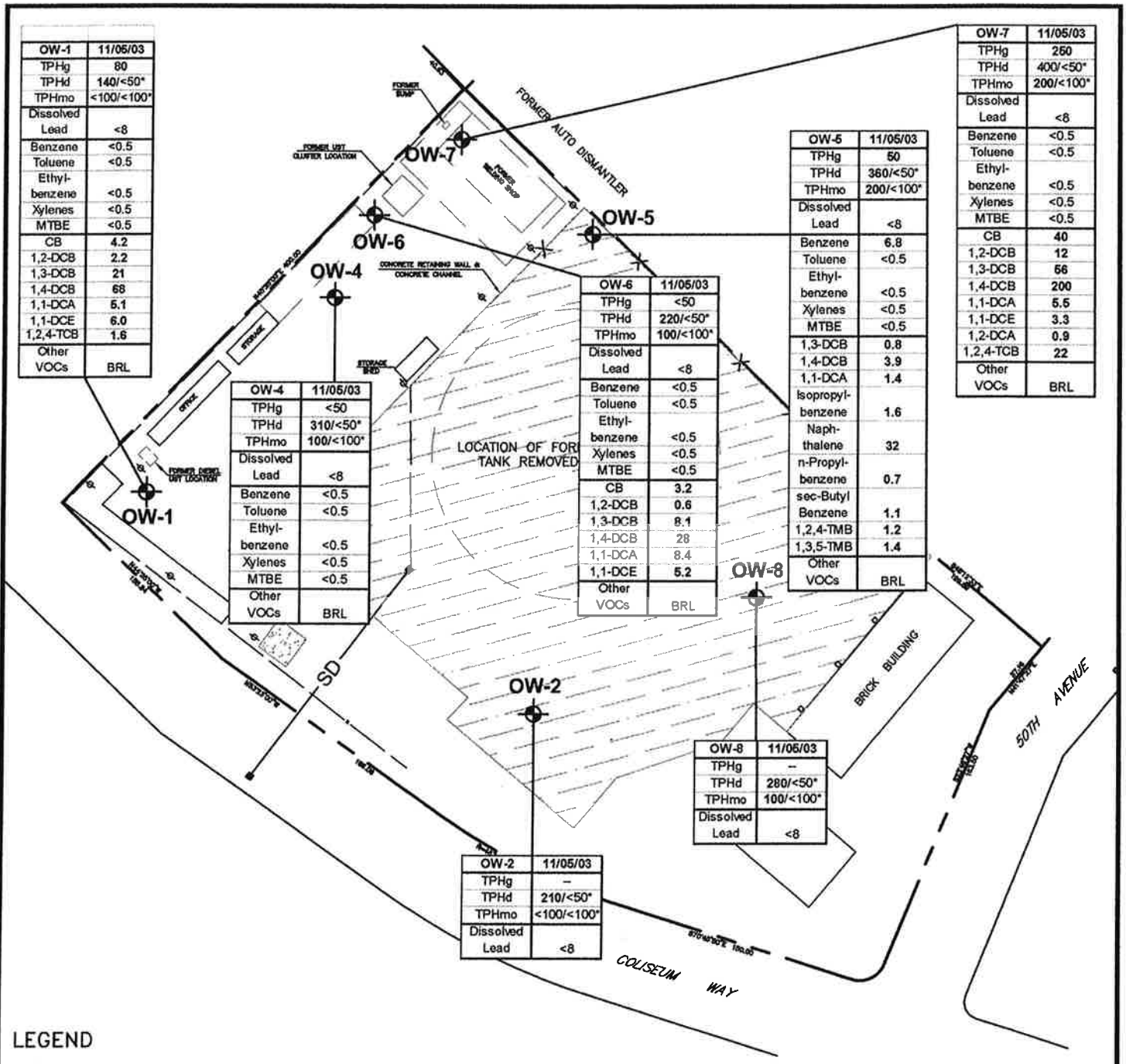
REFERENCE: BASE MAP BY CSS ENVIROMENTAL SERVICES, INC.
FIGURE 4.1 BY ES DATED 08/2005
JOB #6118; 01/1999

ITSI Innovative Technical Solutions, Inc.

Pacific Gas and Electric
Oakland General Construction Yard
Oakland, California

FIGURE 3
Groundwater Elevation Contours
(November 6, 2007)

FILENAME: C:_FUPE\100_PROJ\ITSI\07037 PG&E\07037.0018 PGE-14 Oakland SC UST Program\10.0 CADD\400_CADD Current Drawings\07037.0018 OKLND SC Figure 2-3-4.dwg



LEGEND

- OW-1 — MONITORING WELL
- PROPERTY LINE
- SD — STORM DRAIN
- EXISTING CHAIN LINK FENCE
- EXISTING UTILITY POLE
- EXTENT OF ASPHALTIC CONCRETE CAP
- * — SILICON GEL CLEANUP METHOD RESULT

TPHg	Total petroleum hydrocarbons as gasoline
TPHd	Total petroleum hydrocarbons as diesel
CB	Chlorobenzene
DCB	Dichlorobenzene
DCA	Dichloroethane
DCE	Dichloroethene
MTBE	Methyl tert-butyl ether
TCB	Trichlorobenzene
TMB	Trimethylbenzene
VOCs	Volatile organic compounds
BRL	Below laboratory reporting limits

N

0 100 200

APPROXIMATE SCALE IN FEET

REFERENCE: BASE MAP BY CSS ENVIROMENTAL SERVICES, INC.
FIGURE 4.1 BY ES DATED 08/2005
JOB #6118; 01/1999

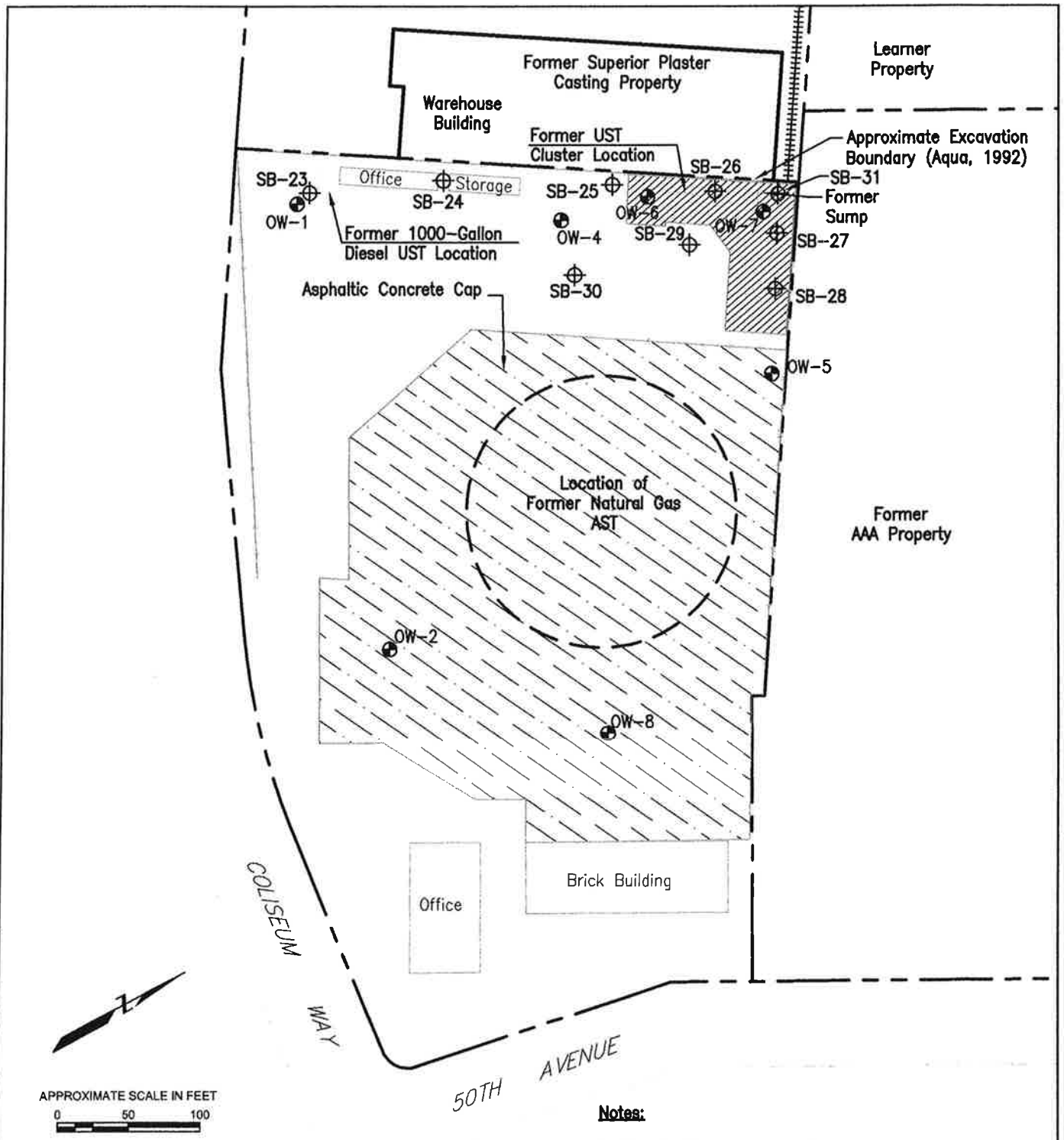
ALL RESULTS REPORTED IN MICROGRAMS/LITER (µg/l)

ITSI Innovative Technical Solutions, Inc.

Pacific Gas and Electric
Oakland General Construction Yard
Oakland, California

FIGURE 4
Groundwater Analytical Results
(November 6, 2007)

FILENAME: P:\07037 PG&E_Entrix\07037.0018 PGE-14 Oakland SC UST Program\10.0 CADD\400_CADD Current Drawings\07037.0018 OKLND SC Figure 2-3-4.dwg



Notes:

1. Well locations are approximate.
2. Basemap from CCS Environmental Services, Inc., 2005, Groundwater Monitoring Report, PG&E Oakland General Construction Yard, Oakland, California.

EXPLANATION

- Groundwater Monitoring Well
- Proposed Sampling Location
- Approximate Parcel Boundary
- Railroad Spur

ABBREVIATIONS

AST Aboveground Storage Tank
UST Underground Storage Tank

PROPOSED SAMPLING LOCATIONS
Pacific Gas & Electric Company
Oakland General Construction Yard
4930 Coliseum Way, Oakland, CA

By: JMS	Date: 11/16/07	Project No. 13045.007.A
Geomatrix		Figure 2

Plot Date: 11/16/07 - 12:57pm, Plotted by: amoglibery
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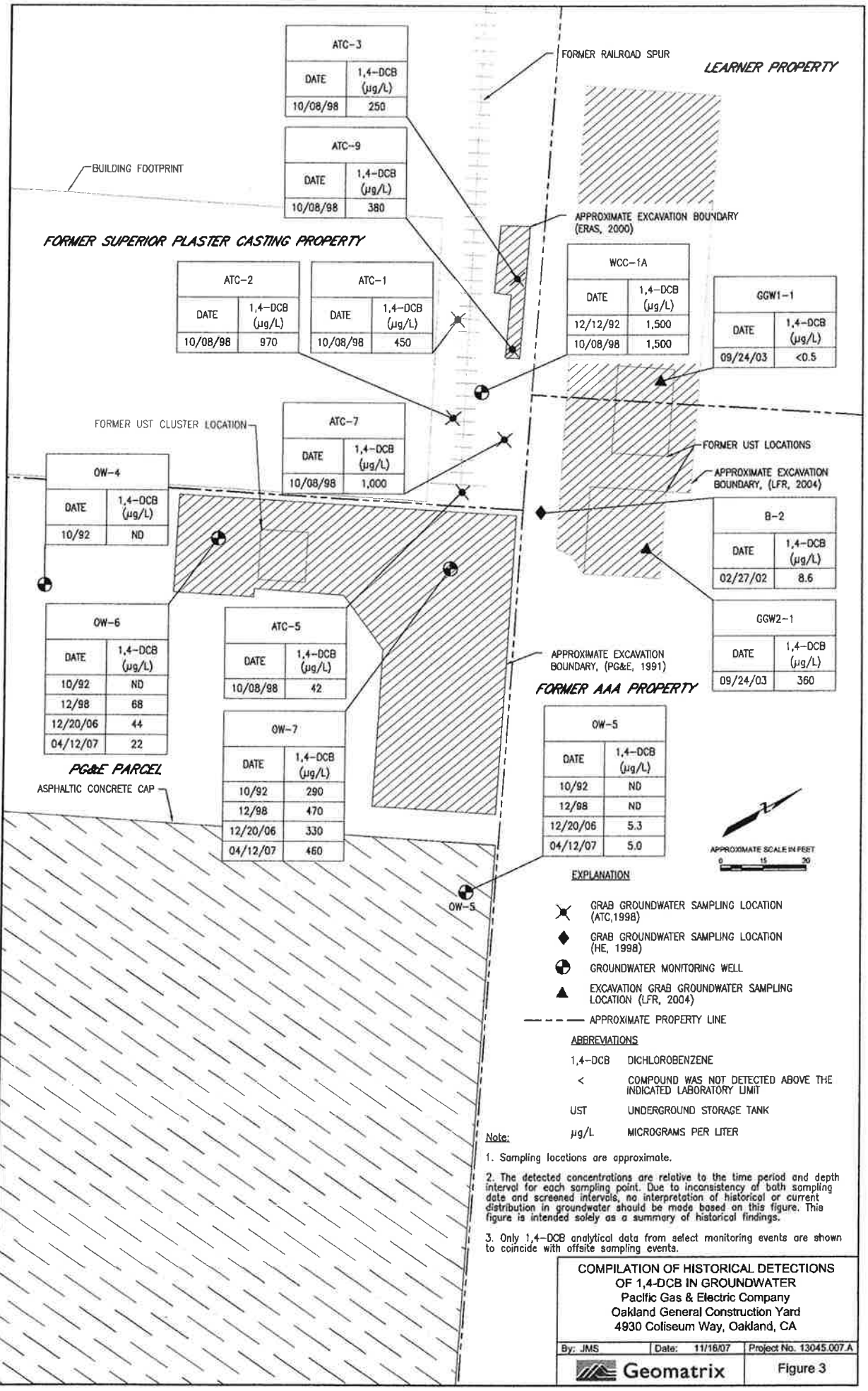
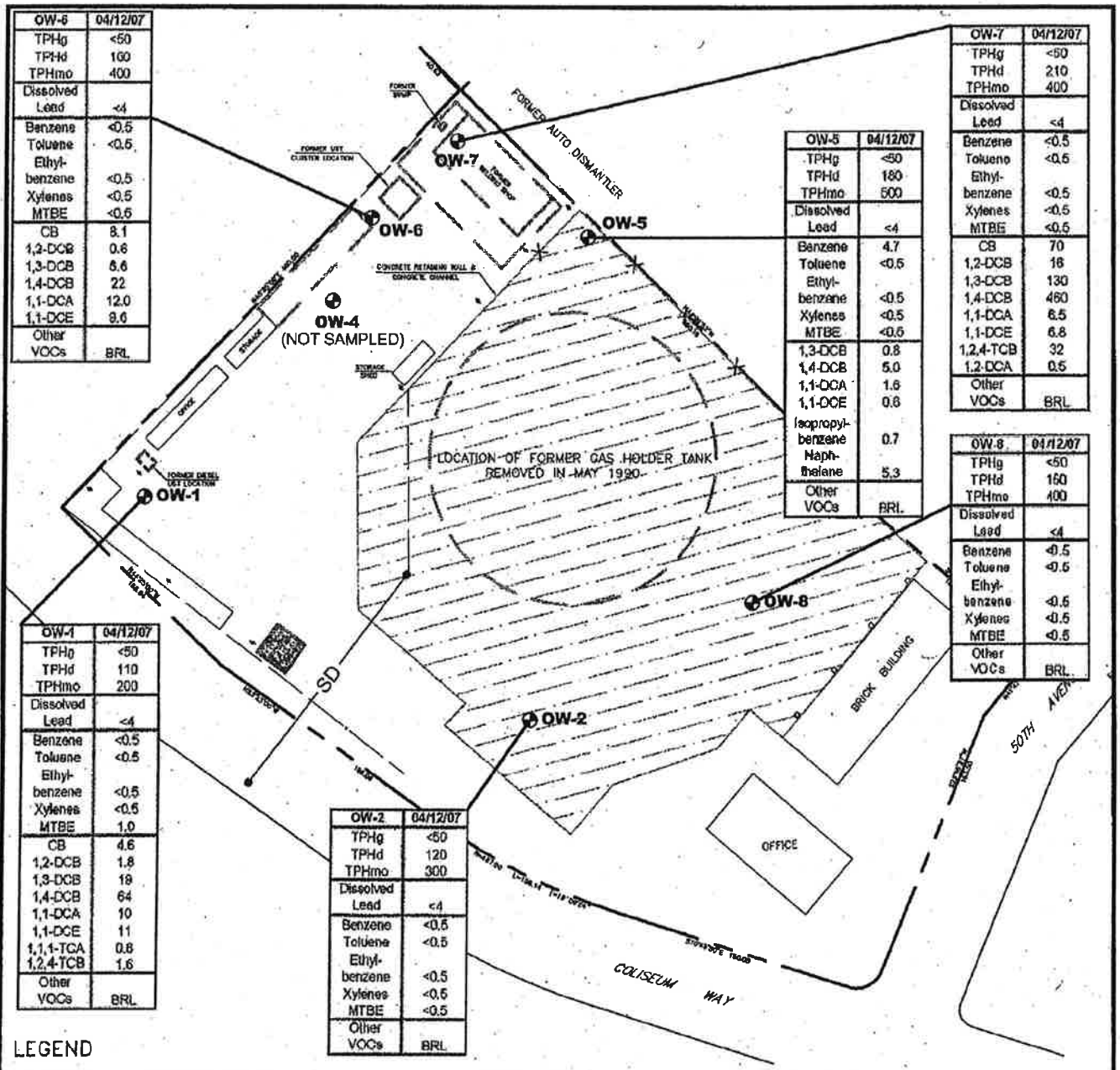

ATC-3
DATE | 1,4-DCB (µg/L)
10/08/98 | 250
ATC-9
DATE | 1,4-DCB (µg/L)
10/08/98 | 380
FORMER RAILROAD SPUR
LEARNER PROPERTY
BUILDING FOOTPRINT
APPROXIMATE EXCAVATION BOUNDARY (ERAS, 2000)
FORMER SUPERIOR PLASTER CASTING PROPERTY
ATC-2
DATE | 1,4-DCB (µg/L)
10/08/98 | 970
ATC-1
DATE | 1,4-DCB (µg/L)
10/08/98 | 450
WCC-1A
DATE | 1,4-DCB (µg/L)
12/12/92 | 1,500
10/08/98 | 1,500
GGW1-1
DATE | 1,4-DCB (µg/L)
09/24/03 | <0.5
FORMER UST CLUSTER LOCATION
ATC-7
DATE | 1,4-DCB (µg/L)
10/08/98 | 1,000
FORMER UST LOCATIONS
APPROXIMATE EXCAVATION BOUNDARY, (LFR, 2004)
OW-4
DATE | 1,4-DCB (µg/L)
10/92 | ND
B-2
DATE | 1,4-DCB (µg/L)
02/27/02 | 8.6
OW-6
DATE | 1,4-DCB (µg/L)
10/92 | ND
12/98 | 68
12/20/06 | 44
04/12/07 | 22
ATC-5
DATE | 1,4-DCB (µg/L)
10/08/98 | 42
GGW2-1
DATE | 1,4-DCB (µg/L)
09/24/03 | 360
APPROXIMATE EXCAVATION BOUNDARY, (PG&E, 1991)
FORMER AAA PROPERTY
OW-7
DATE | 1,4-DCB (µg/L)
10/92 | 290
12/98 | 470
12/20/06 | 330
04/12/07 | 460
OW-5
DATE | 1,4-DCB (µg/L)
10/92 | ND
12/98 | ND
12/20/06 | 5.3
04/12/07 | 5.0
PG&E PARCEL
ASPHALTIC CONCRETE CAP
OW-5
APPROXIMATE SCALE IN FEET
0 15 30
EXPLANATION
GRAB GROUNDWATER SAMPLING LOCATION (ATC,1998)
GRAB GROUNDWATER SAMPLING LOCATION (HE, 1998)
GROUNDWATER MONITORING WELL
EXCAVATION GRAB GROUNDWATER SAMPLING LOCATION (LFR, 2004)
APPROXIMATE PROPERTY LINE
ABBREVIATIONS
1,4-DCB DICHLOROBENZENE
< COMPOUND WAS NOT DETECTED ABOVE THE INDICATED LABORATORY LIMIT
UST UNDERGROUND STORAGE TANK
µg/L MICROGRAMS PER LITER
Note:
1. Sampling locations are approximate.
2. The detected concentrations are relative to the time period and depth interval for each sampling point. Due to inconsistency of both sampling date and screened intervals, no interpretation of historical or current distribution in groundwater should be made based on this figure. This figure is intended solely as a summary of historical findings.
3. Only 1,4-DCB analytical data from select monitoring events are shown to coincide with offsite sampling events.
COMPILATION OF HISTORICAL DETECTIONS OF 1,4-DCB IN GROUNDWATER
Pacific Gas & Electric Company
Oakland General Construction Yard
4930 Coliseum Way, Oakland, CA
By: JMS | Date: 11/16/07 | Project No. 13045.007.A
Geomatrix
Figure 3



REFERENCE: BASE MAP BY CSS ENVIROMENTAL SERVICES, INC.
FIGURE 4.1 BY ES DATED 08/2005
JOB #6118; 01/1999

ALL RESULTS REPORTED IN MICROGRAMS/LITER (µg/l)

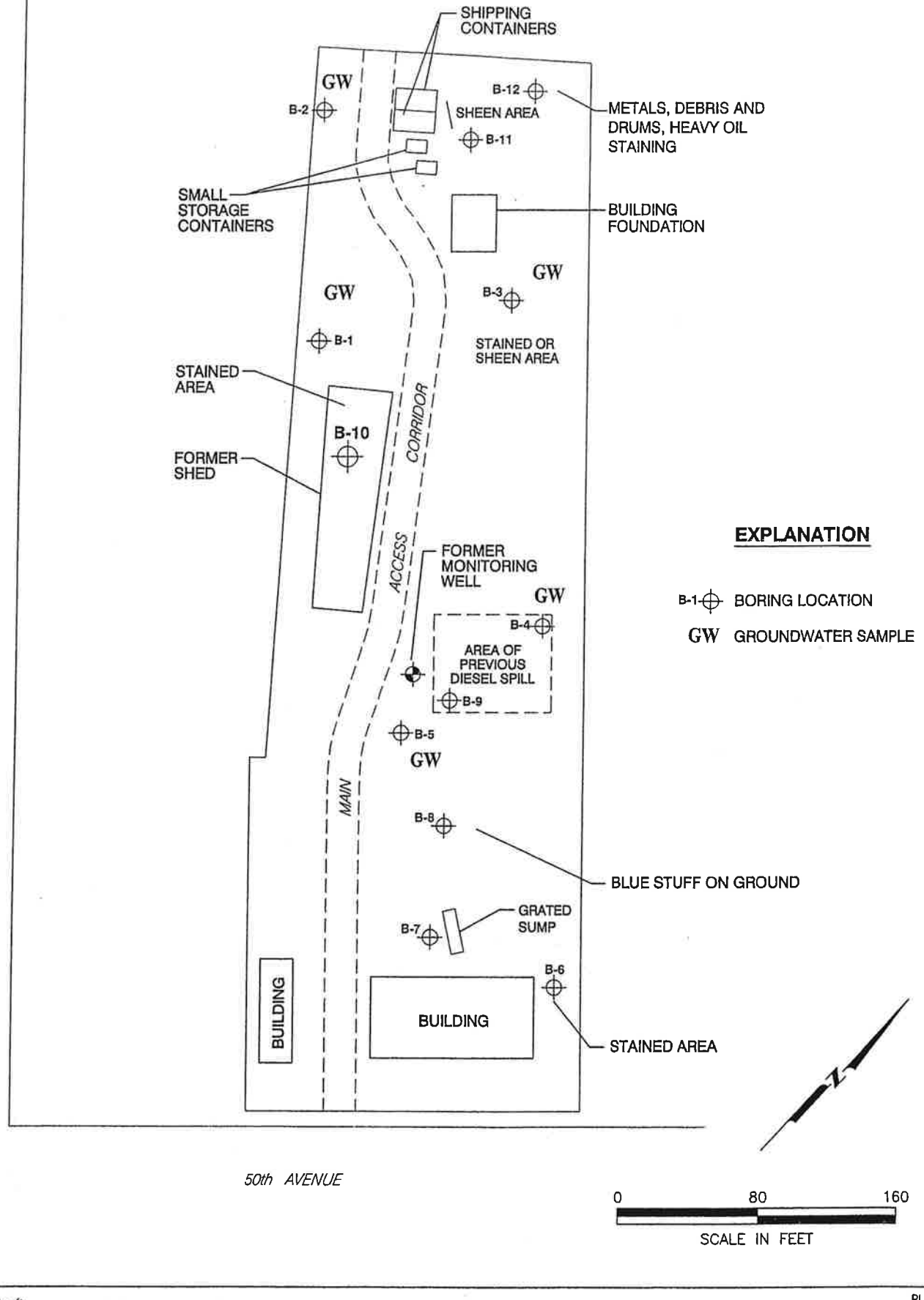
Innovative Technical Solutions, Inc.

Pacific Gas and Electric
Oakland General Construction Yard
Oakland, California

FIGURE 4
Groundwater Analytical Results
(April 12, 2007)

FILENAME: P:\07037 PG&E_Erinix\07037.0018 PG&E Oakland SC UST Program\10.0 CADD\400_CADD Current Drawings\07037.0018 OKLND SC Figure 2-3-4.dwg

FORMER AAA EQUIPMENT COMPANY



PLATE

1

Harding ESE
A MACTEC COMPANY

Site Location Map
740 50th Avenue
Oakland, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55368 1		3/02	

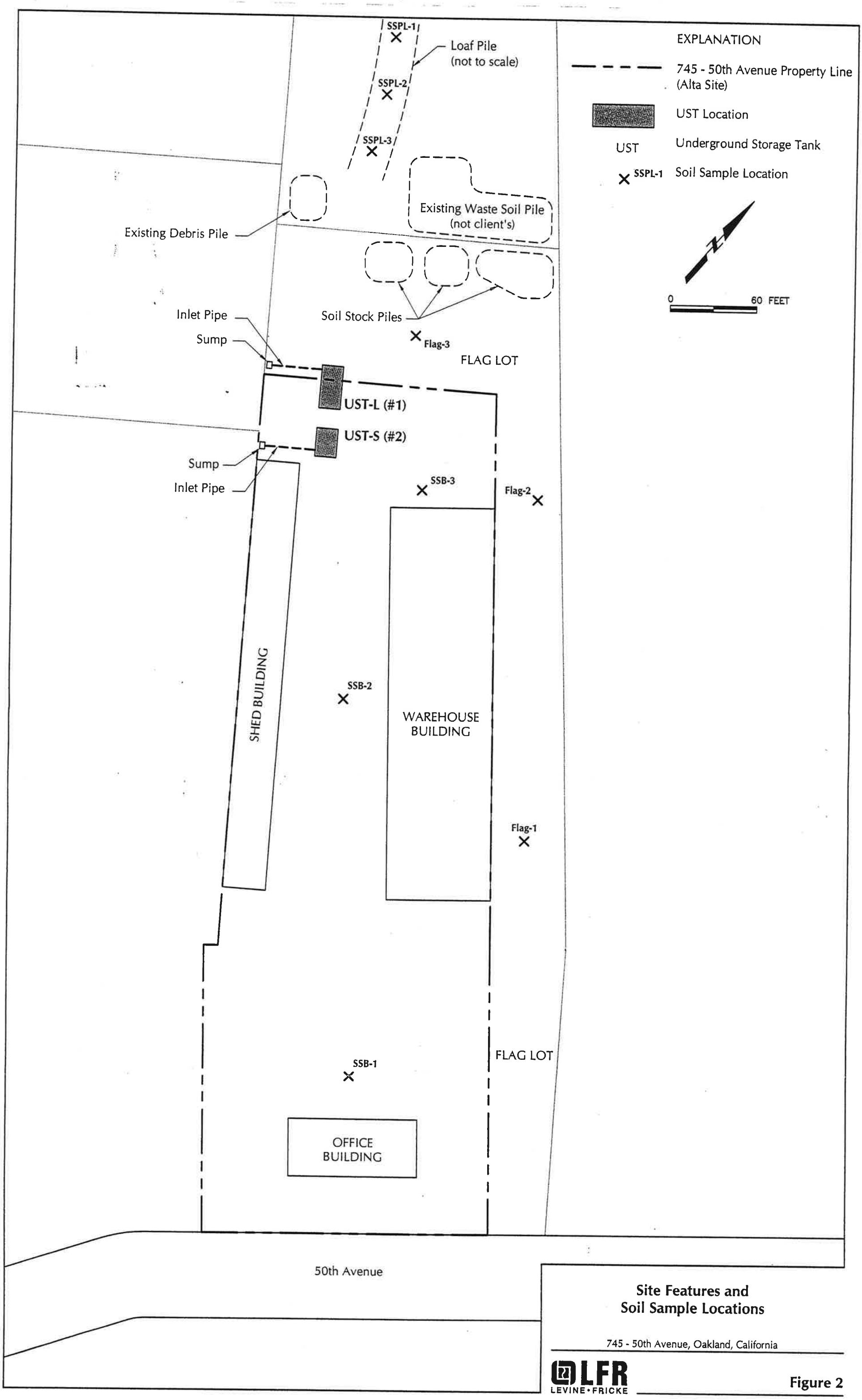
Table 1

Westside Building Materials
Oakland Facility Sampling Results
Sample date February 27, 2002

Boring & Depth	PID Reading ppm	TPHd 8015m mg/kg	TPH Oil 8015m mg/kg	PCE 8260B ug/kg	TCE 8260B ug/kg	Other 8260B ug/kg
B-1 @ 1'	8.0	31	74	ND	ND	ND
B-1 @ 9'	26.4	30	78	ND	ND	ND
B-2 @ 1'	21.2	520	730	ND	ND	ND
B-2 @ 5'	30.3	1,200	780	ND	ND	n-Butylbenzene 13, sec-Butylbenzene 7.8,2Hexanone 10, Isopropylbenzene 6.0, nPropylbenzene 9.5
B-3 @ 1'	5.0	740	680	ND	ND	ND
B-3 @ 4.5'	4.0	6	12	ND	ND	ND
B-4 @ 1'	3.6	12,000	18,000	ND	ND	Acetone 700, 2-Butanone 83, p-Isopropyltoluene 22, 4-Methyl-2-pentanone 21, Naphthalene 11, 1,3,5-Trimethylbenzene 5.9, 1,2,4-Trimethylbenzene
B-4 @ 6'	26.0	23	67	ND	ND	ND
B-5 @ 1'	6.0	700	1,800	ND	6	1,2,4-Trimethylbenzene 9.4, m,p-Xylene 7.2, 0-Xylene 22
B-5 @ 5.5'	116	43	13	ND	ND	ND
B-6 @ 1'	16.0	2,400	8,200	ND	ND	ND
B-6 @ 4'	NA	14	26	ND	ND	ND
B-7 @ 1'	6.0	480	790	ND	ND	Acetone 400, n-Butylbenzene 21, Ethylbenzene 11, 2-Hexanone 21, Isopropylbenzene 5.2, p-Isopropyltoluene 12, 4-Methyl-2-pentanone 12, Naphthalene 30, Toluene 19, 1,3,5-Trimethylbenzene 150, 1,2,4-Trimethylbenzene 320, m,p-Xylene 150, o-Xylene 120
B-7 @ 4'	NA	6	12	ND	ND	ND
B-8 @ 1'	10.0	630	1,000	ND	ND	n-Butylbenzene 9.3, sec-Butylbenzene 20, 2-Chlorotoluene 5.5, 4-Chlorotoluene 7.8, Ethylbenzene 8.8, 2-Hexanone 23, Isopropylbenzene 20, p-Isopropyltoluene 21, Naphthalene 12, n-Propylbenzene 19, 1,1,2,2-Tetrachloroethane 11, 1,1,2-Trichloroethane 13, 1,3,5-Trimethylbenzene 72, 1,2,4-Trimethylbenzene 160, m,p-Xylene 17, o-Xylene 14
B-8 @ 4'	NA	ND	10	ND	ND	Acetone 75, 2-Butanone 20
B-9 @ 1'	11.0	190	420	ND	ND	ND
B-9 @ 4'	NA	390	680	ND	ND	ND
B-10 @ 1'	5.0	ND	ND	ND	ND	ND
B-10 @ 4'	NA	6	ND	ND	ND	ND
B-11 @ 1'	19.0	14,000	7,700	ND	ND	ND
B-11 @ 4'	NA	1,900	1,500	ND	ND	ND
B-12 @ 1'	24.0	8,800	3,100	ND	ND	ND for 8260, 820 mg/kg Mercury
B-12 @ 4'	NA	44	56	ND	ND	ND
		ug/l	ug/l	ug/l	ug/l	ug/l
B-1-GW		1.3	0.5	ND	ND	Benzene 3.1, Isopropylbenzene 1.3, 1,3,5-Trimethylbenzene 4.2, 1,2,4-Trimethylbenzene 8.5, m,p-Xylene 1.6, Naphthalene 140
B-2-GW		15.0	13.0	ND	ND	Chlorobenzene 1.2, 1,3-Dichlorobenzene 3.7, 1,4-Dichlorobenzene 8.6, Naphthalene 1.6
B-3-GW		3.6	1.7	ND	ND	Acetone 240, Naphthalene 5.6
B-4-GW		2.7	3.8	ND	ND	Acetone 14
B-5-GW		3.1	1.6	ND	ND	Acetone 12, Isopropylbenzene 1.2

TABLE 2

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-7@1' (P203063-13) Soil Sampled: 02/27/02 14:15 Received: 03/01/02 12:21									
Mercury	**0.38**	0.018	mg/kg	1	2030108	03/07/02	03/07/02	EPA 7471A	
Antimony	ND	5.8	"	"	2030109	03/07/02	03/08/02	EPA 6010B	
Arsenic	ND	9.6	"	"	"	"	"	"	
Barium	**200**	0.96	"	"	"	"	"	"	
Beryllium	**0.11**	0.096	"	"	"	"	"	"	
Cadmium	**1.8**	0.96	"	"	"	"	"	"	
Chromium	**27**	0.96	"	"	"	"	"	"	
Cobalt	**6.0**	0.67	"	"	"	"	"	"	
Copper	**26**	0.96	"	"	"	"	"	"	
Lead	**65**	7.2	"	"	"	"	"	"	
Molybdenum	**2.2**	1.9	"	"	"	"	"	"	
Nickel	**37**	2.9	"	"	"	"	"	"	
Selenium	ND	9.6	"	"	"	"	"	"	
Silver	ND	0.67	"	"	"	"	"	"	
Thallium	ND	9.6	"	"	"	"	"	"	
Vanadium	**16**	0.96	"	"	"	"	"	"	
Zinc	**120**	1.9	"	"	"	"	"	"	
B-8@1' (P203063-15) Soil Sampled: 02/27/02 14:45 Received: 03/01/02 12:21									
Mercury	**0.096**	0.019	mg/kg	1	2030108	03/07/02	03/07/02	EPA 7471A	
Antimony	ND	5.9	"	"	2030109	03/07/02	03/08/02	EPA 6010B	
Arsenic	ND	9.8	"	"	"	"	"	"	
Barium	**330**	0.98	"	"	"	"	"	"	
Beryllium	**0.32**	0.098	"	"	"	"	"	"	
Cadmium	ND	0.98	"	"	"	"	"	"	
Chromium	**48**	0.98	"	"	"	"	"	"	
Cobalt	**8.1**	0.69	"	"	"	"	"	"	
Copper	**18**	0.98	"	"	"	"	"	"	
Lead	**51**	7.4	"	"	"	"	"	"	
Molybdenum	ND	2.0	"	"	"	"	"	"	
Nickel	**52**	2.9	"	"	"	"	"	"	
Selenium	ND	9.8	"	"	"	"	"	"	
Silver	ND	0.69	"	"	"	"	"	"	
Thallium	ND	9.8	"	"	"	"	"	"	
Vanadium	**31**	0.98	"	"	"	"	"	"	
Zinc	**110**	2.0	"	"	"	"	"	"	
B-12@1' (P203063-23) Soil Sampled: 02/28/02 09:10 Received: 03/01/02 12:21									
Mercury	**820**	0.039	mg/kg	2	2030108	03/07/02	03/07/02	EPA 7471A	
Antimony	ND	5.5	"	1	2030109	03/07/02	03/08/02	EPA 6010B	
Arsenic	ND	9.1	"	"	"	"	"	"	
Barium	**48**	0.91	"	"	"	"	"	"	
Beryllium	ND	0.091	"	"	"	"	"	"	
Cadmium	**3.9**	0.91	"	"	"	"	"	"	
Chromium	**81**	0.91	"	"	"	"	"	"	
Cobalt	**21**	0.64	"	"	"	"	"	"	
Copper	**120**	0.91	"	"	"	"	"	"	
Lead	**140**	6.8	"	"	"	"	"	"	
Molybdenum	ND	1.8	"	"	"	"	"	"	
Nickel	**54**	2.7	"	"	"	"	"	"	
Selenium	ND	9.1	"	"	"	"	"	"	
Silver	ND	0.64	"	"	"	"	"	"	
Thallium	ND	9.1	"	"	"	"	"	"	
Vanadium	**26**	0.91	"	"	"	"	"	"	
Zinc	290	1.8	"	"	"	"	"	"	



I:\Design\001\09173\00\dwg\09173 Site Features-R4.dwg, 04/30/2004 11:59:59 AM, 11x17

Site Features and Soil Sample Locations

745 - 50th Avenue, Oakland, California

LFR LEVINE • FRICKE

Figure 2

Table 1
Detected TPHd, TPHmo, TPHg, BTEX, and MTBE in Soil
Westside/Alta Building Materials Site
(Former AAA Equipment Company Site)
745 50th Avenue, Oakland, California
Expressed in milligrams per kilogram (mg/kg) unless otherwise noted

Field ID	Date Sampled	TPHd	TPHmo	TPHg	B	T	E	X	MTBE
ESLs Table B		*5,800***		*400*	*0.38*	*9.3*	*13*	*1.5*	*5.6*
Loaf Stockpile/Backfill Material									
SSPL-1	2-Sep-03	**430 H Y**	**1,300**	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02
SSPL-2	2-Sep-03	**3,500 H Y**	**2,900 L**	< 1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
SSPL-3	2-Sep-03	**340 H Y**	**950**	**1.2 H Y**	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.02
Soil Background									
Flag-1-0.5	4-Sep-03	**77 H Y**	**430**	< 1.1	< 0.0055	< 0.0055	< 0.0055	< 0.0055	< 0.022
Flag-2-0.5	4-Sep-03	**510 H Y**	**1,400**	< 1.1	< 0.0054	< 0.0054	< 0.0054	< 0.0054	< 0.022
Flag-3-0.5	4-Sep-03	**180 H Y**	**650**	< 1.0	< 0.0052	< 0.0052	< 0.0052	< 0.0052	< 0.021
SSB-1-0.5	18-Sep-03	**190 H Y**	**800**	---	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
SSB-2-0.5	18-Sep-03	**470 H Y**	**2,000**	---	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048
SSB-3-1.5	18-Sep-03	**280 H**	**260 L**	---	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Data entered by VCH. Proofed by LPL. QA/QC by JBP.

Notes:

Values in **bold** detected above laboratory analytical detection limits.

TPHd = Total petroleum hydrocarbons as diesel; samples analyzed using EPA Method 8015B
TPHmo = Total petroleum hydrocarbons as motor oil; samples analyzed using EPA Method 8015B
TPHg = Total petroleum hydrocarbons as gasoline; samples analyzed using EPA Method 8015B
B = Benzene; samples analyzed using EPA Method 8021B
T = Toluene; samples analyzed using EPA Method 8021B
E = Ethylbenzene; samples analyzed using EPA Method 8021B
X = Total xylenes; samples analyzed using EPA Method 8021B
MTBE = Methyl tertiary-butyl ether; samples analyzed using EPA Method 8021B
ESLs = Environmental Screening Levels

< = Not detected above laboratory analytical detection limits
--- = Not analyzed
** = TPHd/TPHmo as residual fuels, Table B-2

H = Heavier hydrocarbons contributed to the quantitation
Y = Sample exhibits chromatographic pattern which does not resemble standard
L = Lighter hydrocarbons contributed to the quantitation

Table 2
Detected PNAs and PCBs in Soil
Westside/Alta Building Materials Site
(Former AAA Equipment Company Site)
745 50th Avenue, Oakland, California

Expressed in milligrams per kilogram (mg/kg)

Field ID	Date Sampled	PNAs															PCBs (1)	
		Naph-thalene	Ace-naphthyl-ene	Ace-naphth-ene	Fluorene	Phen-anthrene	Anthra-cene	Fluor-anthene	Pyrene	Benzo(a) anthracene	Chrysene	Benzo(b) fluor-anthene	Benzo(k) fluor-anthene	Benzo(a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Aroclor-1254	Aroclor-1260
ESLs Table B		***4.8***	***13***	***19***	***8.9***	***11***	***2.8***	***40***	***85***	***1.3***	***13***	***1.3***	***1.3***	***0.13***	***1.3***	***0.38***	***27***	***0.74***	***0.74***
Loaf Stockpile/Backfill Material																			
SSPL-1	2-Sep-03	< 0.25	< 0.25	**0.26**	< 0.25	**2**	**0.49**	**3.8**	**5.6**	**2.2**	**2.7**	**1.7**	**1.9**	**1.9**	**0.66**	< 0.25	**0.75**	**1.3**	**1.5**
SSPL-2	2-Sep-03	< 0.5	< 0.5	**1.3**	**1.3**	**11**	**3.4**	**12**	**13**	**5.9**	**6.3**	**4.1**	**4.5**	**4.2**	**1.2**	< 0.5	**1.3**	**3.5**	**6.3**
SSPL-3	2-Sep-03	< 0.25	< 0.25	< 0.25	< 0.25	**0.68**	**0.27**	**1.4**	**2.2**	**0.92**	**1.2**	**1.3**	**1**	**0.99**	**0.37**	< 0.25	**0.51**	**1.3**	**1.1**
Soil Background																			
Flag-1-0.5	4-Sep-03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.18**	**0.15**
Flag-2-0.5	4-Sep-03	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	**0.93**	< 0.25	**0.31**	**0.79**	**0.28**	**0.4**	< 0.25	< 0.25	**0.27**	**0.1**	**0.19**
Flag-3-0.5	4-Sep-03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.65**	**0.83**	< 0.5	**0.52**	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.29**	**0.42**
SSB-1-0.5	18-Sep-03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.7**	< 0.5	< 0.5	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.24	**10**
SSB-2-0.5	18-Sep-03	< 0.5	< 0.5	< 0.5	< 0.5	**0.83**	< 0.5	**1.3**	**1.9**	**0.71**	**1.1**	**0.55**	**0.83**	**0.83**	< 0.5	< 0.5	< 0.5	< 0.06	**2.1**
SSB-3-1.5	18-Sep-03	< 0.25	< 0.25	< 0.25	< 0.25	**0.3**	< 0.25	< 0.25	**0.4**	< 0.25	**0.3**	**0.74**	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.012	< 0.012

Data entered by VCH. Proofed by LPL. QA/QC by JBP.

Notes:

(1) = See Laboratory Data Sheets Appendix for full list of analytes included in these analyses.

Values in **bold** detected above laboratory analytical detection limits.

PNAs = Polynuclear aromatics; samples analyzed using EPA Method 8270C
PCBs = Polychlorinated biphenyls; samples analyzed using EPA Method 8082
H = Heavier hydrocarbons contributed to the quantitation
Y = Sample exhibits chromatographic pattern which does not resemble standard

ESLs = Environmental Screening Levels

--- = Not analyzed
< = Not detected above laboratory analytical detection limits

Table 3
Detected Metals in Soil
Westside/Alta Building Materials Site
(Former AAA Equipment Company Site)
745 50th Avenue, Oakland, California

Expressed in milligrams per kilogram (mg/kg)

Field ID	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
ESLs Table B		*40*	*5.5*	*1,500*	*8*	*7.4*	*58*	*80*	*230*	*750*	*10*	*40*	*150*	*10*	*40*	*13*	*200*	*600*
Loaf Stockpile/Backfill Material																		
SSPL-1	2-Sep-03	<2.9	4	340	0.16	4.1	21	6.1	51	120	0.39	1	33	0.27	<0.24	4.1	19	290
SSPL-2	2-Sep-03	<2.9	4.4	280	0.18	6.2	28	8.2	74	180	0.43	1.1	47	0.34	0.26	5.8	24	510
SSPL-2	12-Sep-03	---	---	---	---	---	---	---	---	11.0**	---	---	---	---	---	---	---	---
SSPL-3	2-Sep-03	<2.8	5.2	230	0.21	4.9	48	8.5	40	94	0.26	1.1	50	0.31	<0.23	5.7	30	190
Soil Background																		
Flag-1-0.5	4-Sep-03	< 0.29	3.5	380	0.15	< 0.24	14	4.1	24	88	0.34	< 0.96	21	0.53	< 0.24	3.2	16	120
Flag-2-0.5	4-Sep-03	< 0.28	9.8	200	0.21	< 0.23	24	7.8	16	100	0.19	< 0.94	34	0.5	< 0.23	3.3	19	63
Flag-3-0.5	4-Sep-03	< 0.28	3.0	190	0.13	< 0.24	27	6.7	30	59	0.16	< 0.94	40	0.73	< 0.24	3.9	20	110
SSB-1-0.5	18-Sep-03	< 2.4	17	1,000	0.28	1.8	38	8.1	61	340	0.45	1.3	52	< 0.20	0.52	0.59	27	530
SSB-2-0.5	18-Sep-03	< 2.5	5.6	330	0.18	2.2	43	7.2	240	240	0.49	1.7	39	< 0.21	0.26	0.79	24	260
SSB-3-1.5	18-Sep-03	< 2.6	2.4	140	0.29	0.25	26	4.6	12	14	0.079	< 0.86	25	< 0.22	< 0.22	0.23	17	21

Data entered by VCH. Proofed by LPL. QA/QC by JBP.

Notes:

Values in **bold** detected above laboratory analytical detection limits.

--- = Not analyzed

< = Not detected above laboratory analytical detection limits

ESLs = Environmental Screening Levels

Table 4
Detected VOCs in Soil[(1)]
Westside/Alta Building Materials Site
(Former AAA Equipment Company Site)
745 50th Avenue, Oakland, California
Expressed in milligrams per kilogram (mg/kg) unless otherwise noted

Field ID	Date Sampled	Acetone	Methylene Chloride	2-Butanone	Chloro-benzene	Iso-propyl-benzene	Propyl-benzene	1,3,5-Tri-methyl-benzene	1,2,4-Tri-methyl-benzene	sec-Butyl-benzene	para-Iso-propyl Toluene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	n-Butyl-benzene	1,2-Dichloro-benzene
ESLs Table B		*0.50*	*1.5*	*NV*	*1.5*	*NV*	*NV*	*NV*	*NV*	*NV*	*NV*	*7.4*	*0.13*	*NV*	*1.6*
Loaf Stockpile/Backfill Material															
SSPL-1	09/02/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SSPL-2	09/02/03	< 0.02	< 0.02	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
SSPL-3	09/02/03	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Soil Background															
Flag-1-0.5	09/04/03	< 0.02	< 0.02	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
Flag-2-0.5	09/04/03	< 0.018	< 0.018	< 0.0091	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
Flag-3-0.5	09/04/03	< 0.018	< 0.018	< 0.0091	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
SSB-1-0.5	09/18/03	< 0.02	< 0.02	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
SSB-2-0.5	09/18/03	< 0.019	< 0.019	< 0.0096	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048
SSB-3-1.5	09/18/03	**0.021**	< 0.02	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

Data entered by VCH. Proofed by LPL. QA/QC by JBP.

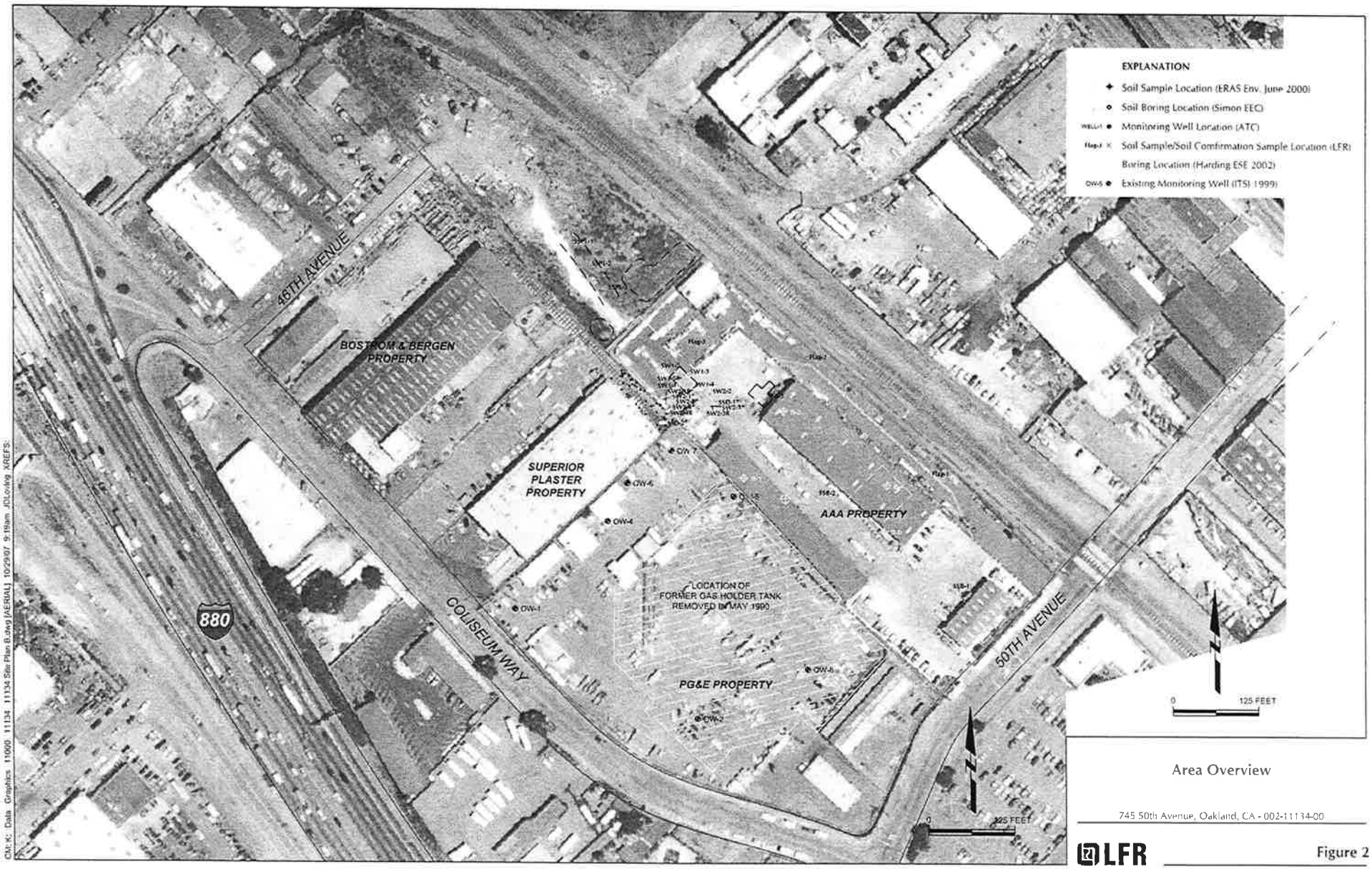
Notes:

(1) = See Laboratory Data Sheets Appendix for full list of analytes included in these analyses.

Values in **bold** detected above laboratory analytical detection limits.

VOCs = Volatile organic compounds; samples analyzed using EPA Method 8260B
ESLs = Environmental Screening Levels

--- = Not analyzed
< = Not detected above laboratory analytical detection limits
NV = No ESL value for this compound



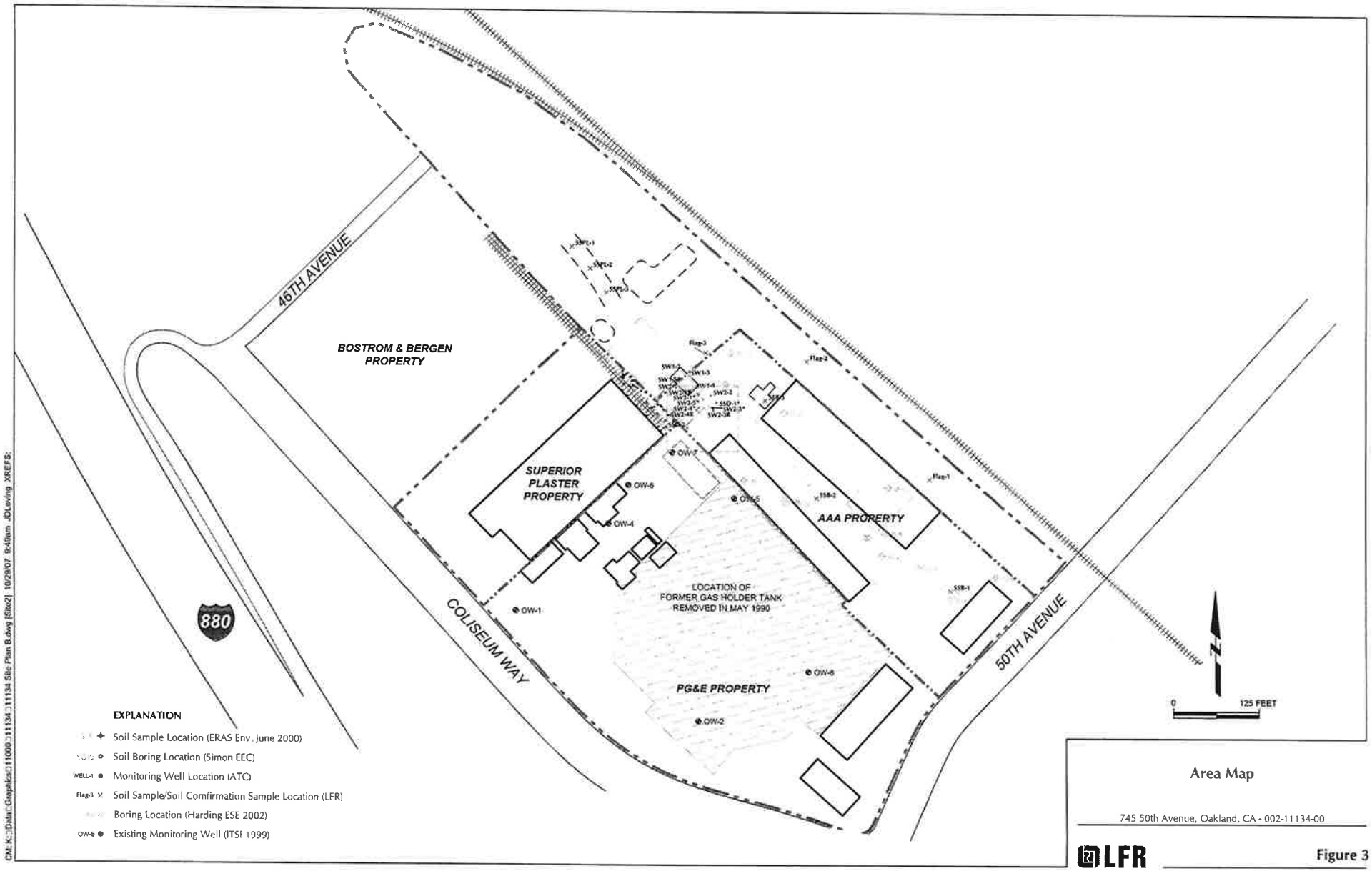
Area Overview

745 50th Avenue, Oakland, CA - 002-11134-00

LFR

Figure 2

CM: K:_Data Graphics 11000_11134_11134 Site Plan B.dwg [AERIAL] 10/29/07 9:19am JDLovig XREFS:



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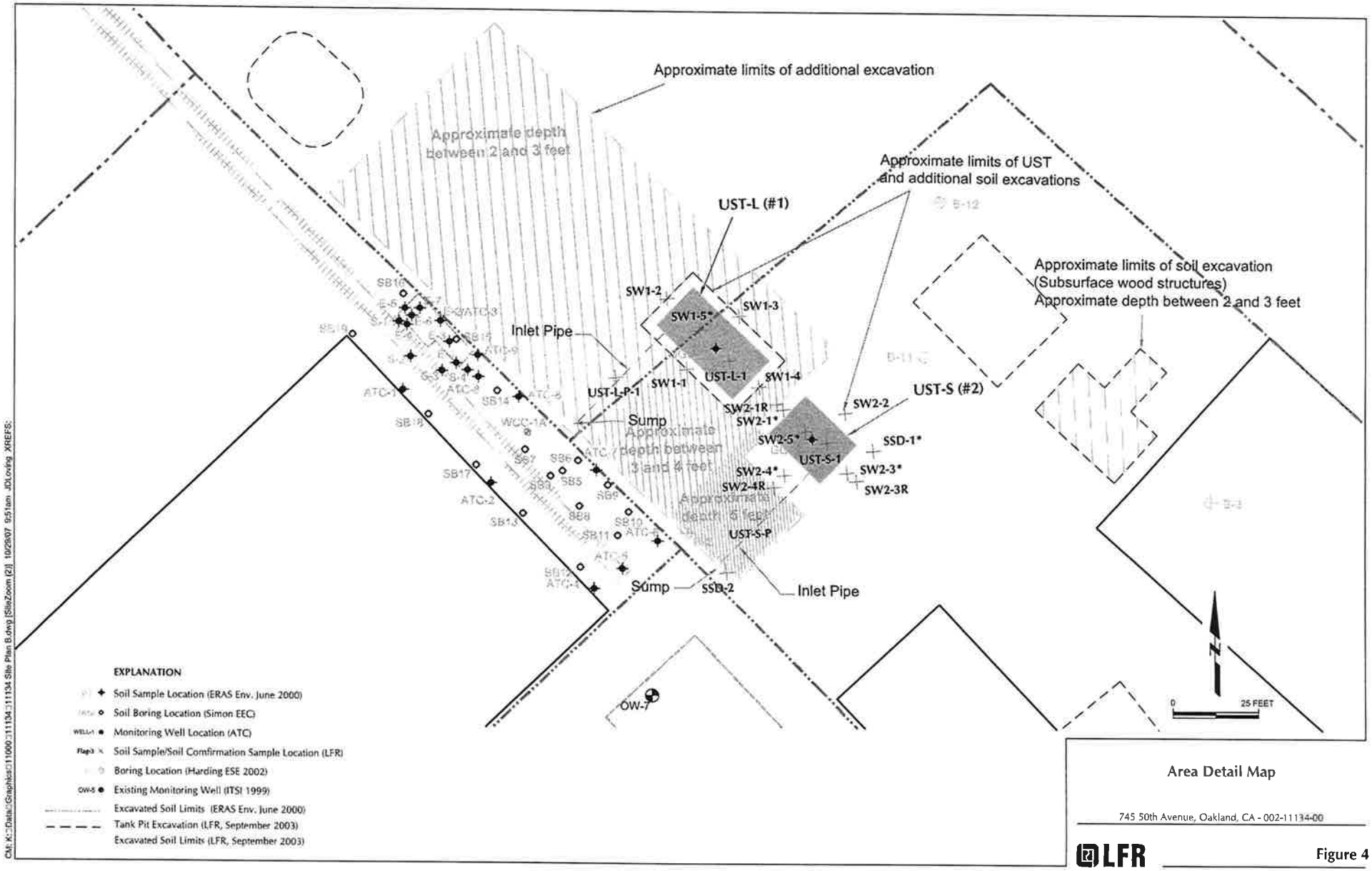
Area Map

745 50th Avenue, Oakland, CA - 002-11134-00

LFR

Figure 3



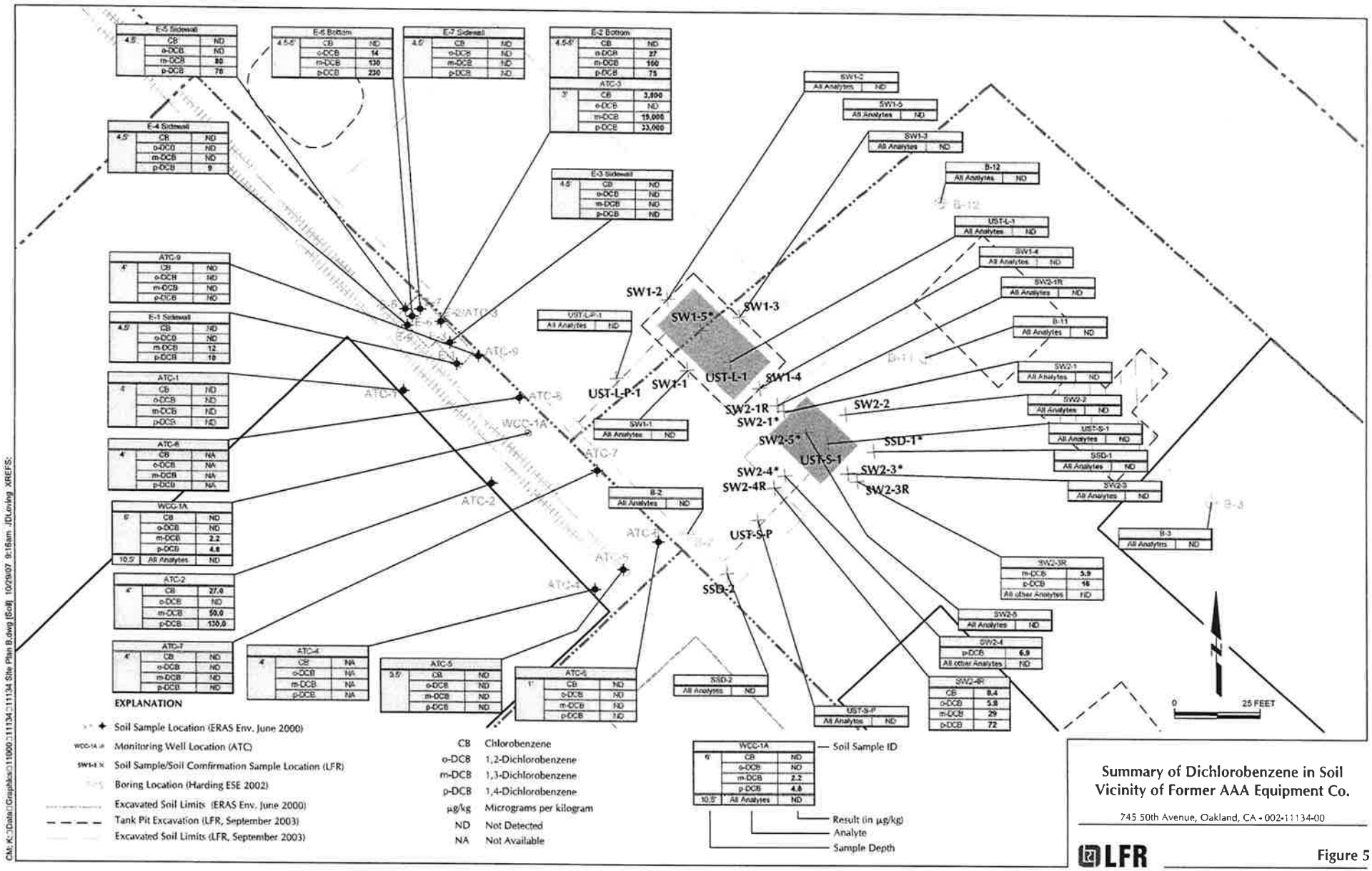
CM; K:\Data\Graphics\11000\111134\111134 Site Plan B.dwg [SiteZoom (2)] 10/29/07 9:51am JDLoving XREFS:

Area Detail Map

745 50th Avenue, Oakland, CA - 002-11134-00

LFR

Figure 4

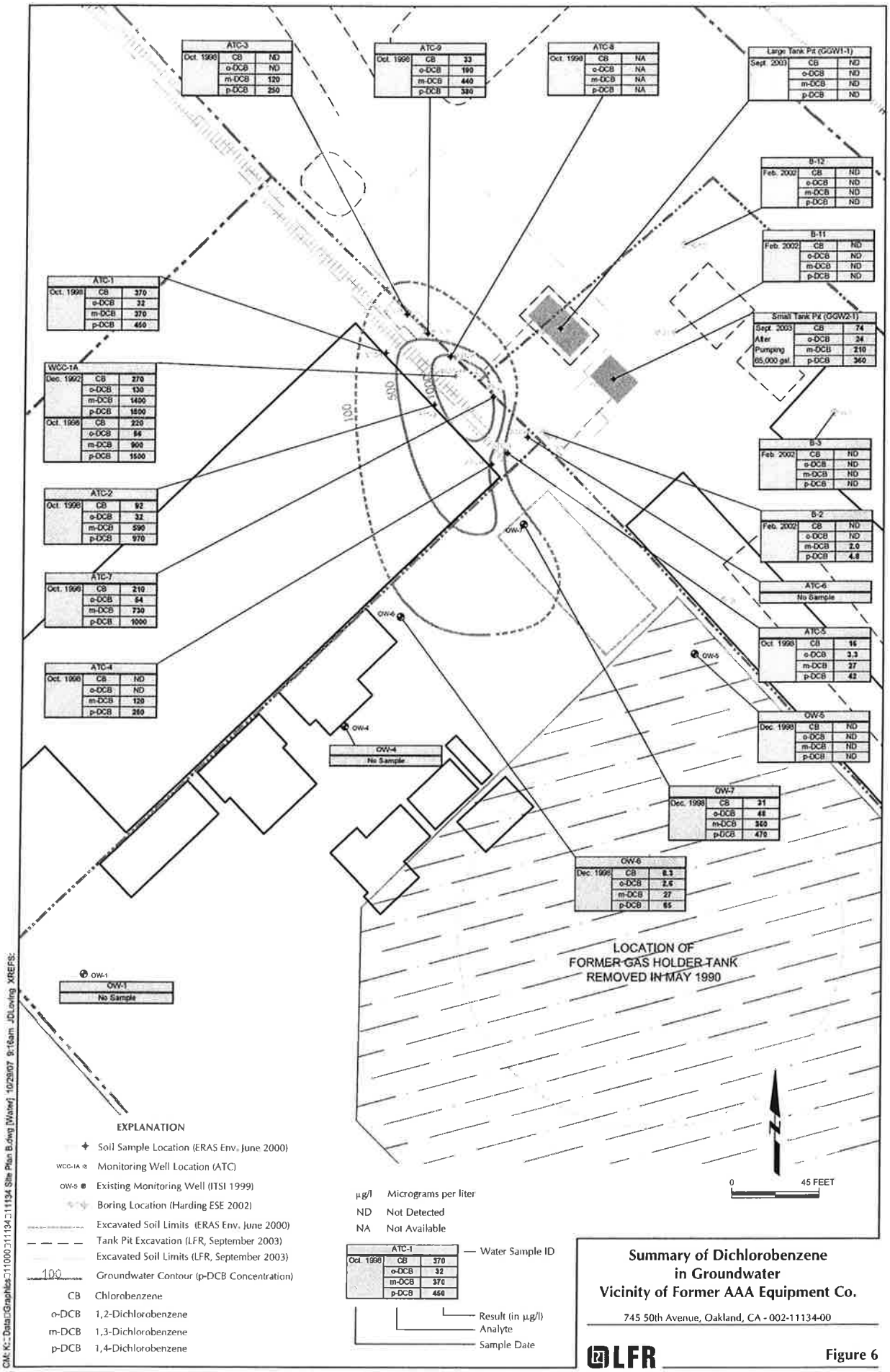


Summary of Dichlorobenzene in Soil Vicinity of Former AAA Equipment Co.

745 50th Avenue, Oakland, CA • 002-11134-00

LFR

Figure 5



Summary of Dichlorobenzene in Groundwater
Vicinity of Former AAA Equipment Co.

745 50th Avenue, Oakland, CA - 002-11134-00

LFR

Figure 6

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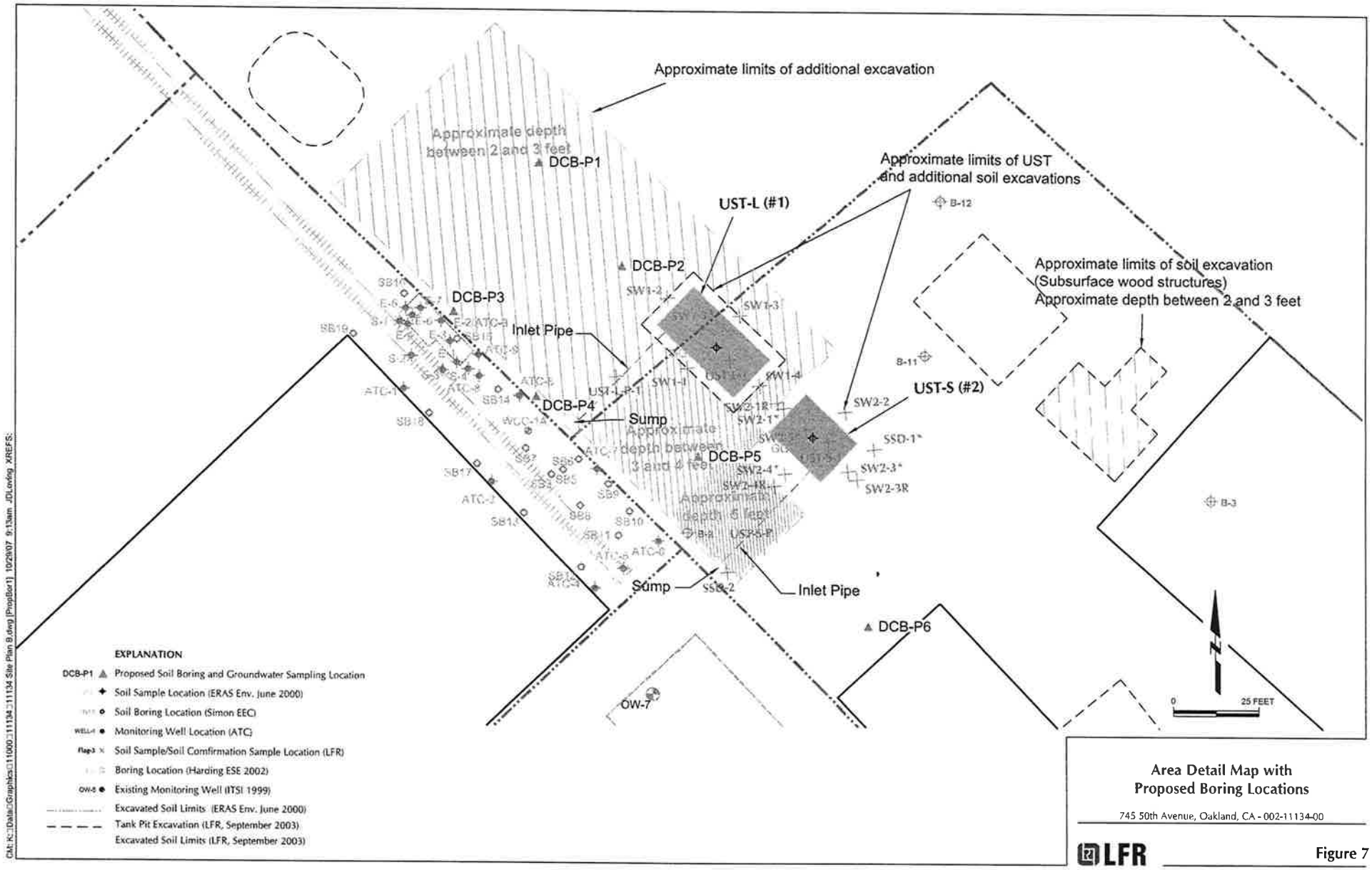

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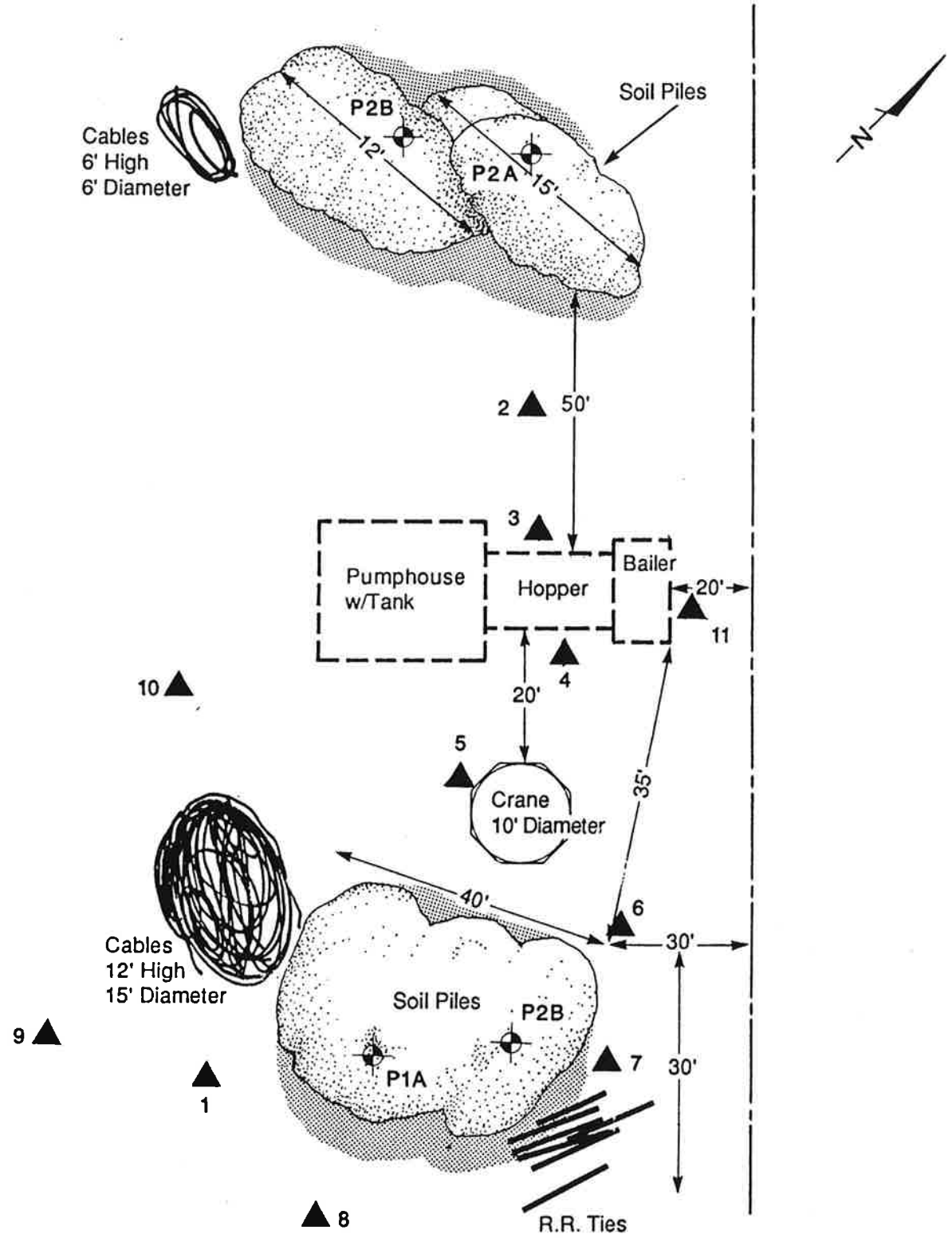
Area Detail Map with Proposed Boring Locations

745 50th Avenue, Oakland, CA - 002-11134-00

LFR

Figure 7

LEARNER INVESTMENT COMPANY PROPERTY



KEY:

Property Boundary

7 ▲ Soil Sampling Location and Designation

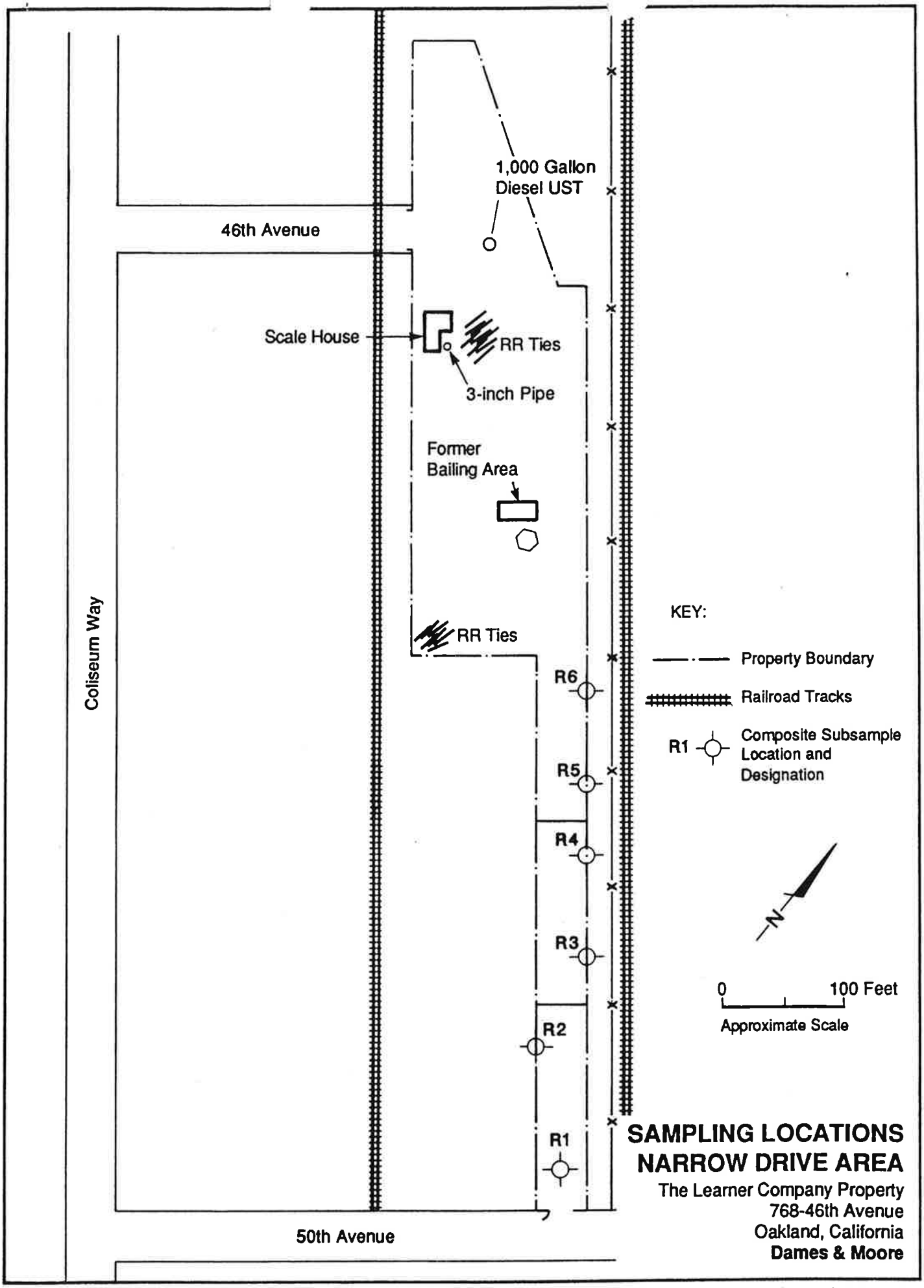
P1A ⊕ Composite Subsample Location and Designation

Not to scale

SAMPLING LOCATIONS
FORMER BAILER AREA
AND SOIL PILES

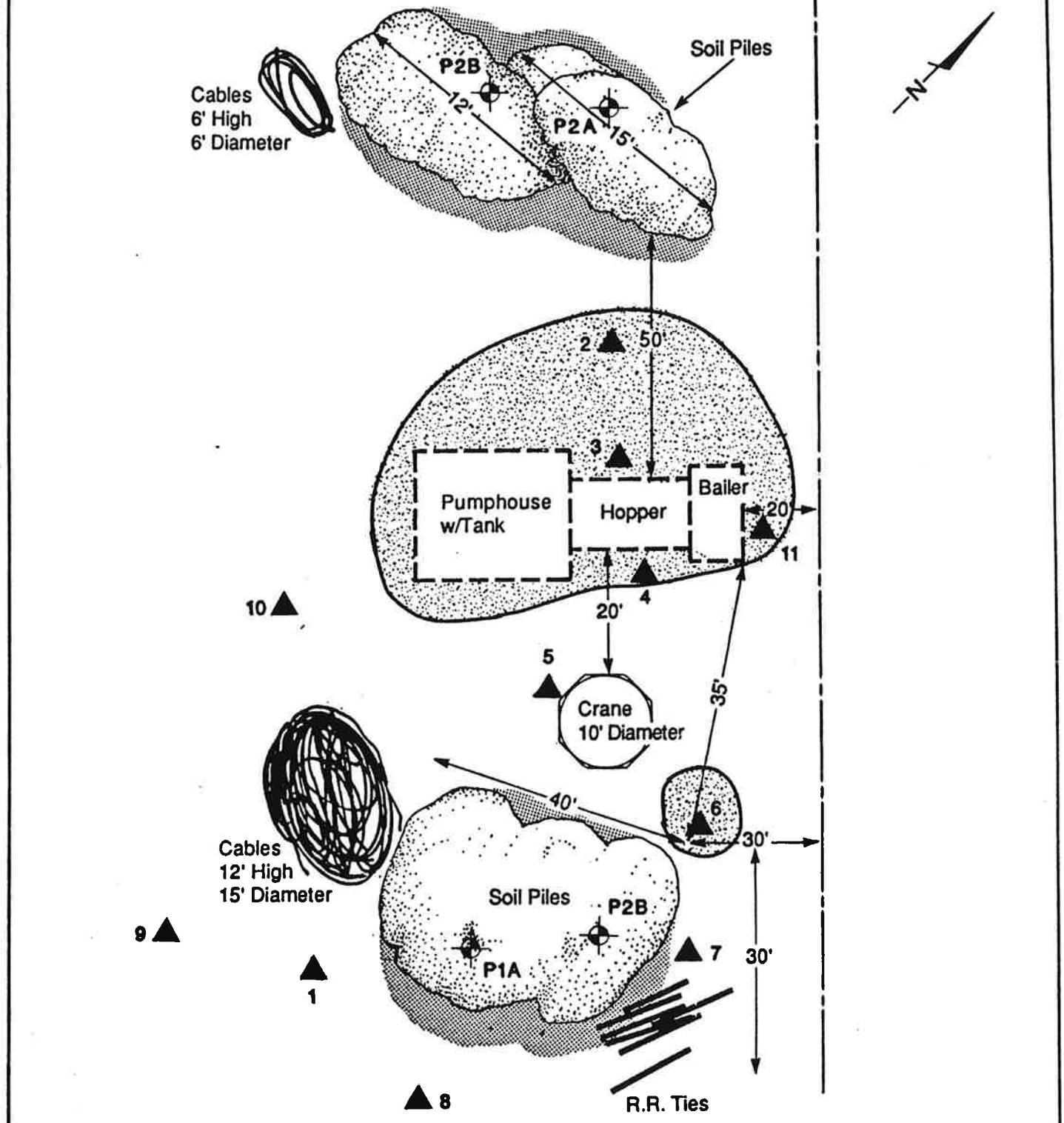
The Learner Company Property
768-46th Avenue
Oakland, California
Dames & Moore

FIGURE 3



SAMPLING LOCATIONS
NARROW DRIVE AREA
The Learner Company Property
768-46th Avenue
Oakland, California
Dames & Moore

FIGURE 4



KEY:

Property Boundary

Proposed Area of Excavation (3 Ft. Deep)

7 Soil Sampling Location and Designation

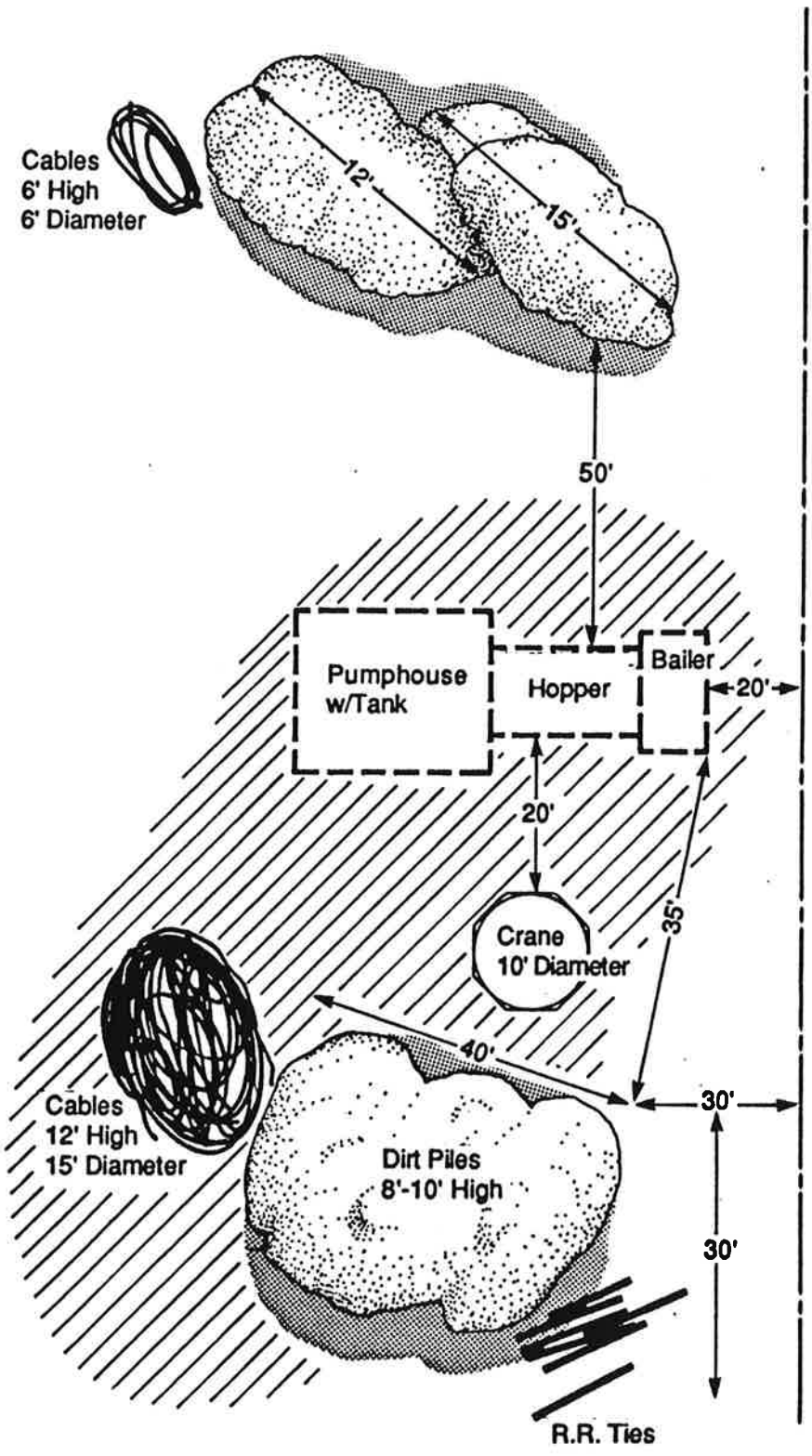
P1A Composite Subsample Location and Designation

Not to scale

PROPOSED EXTENT OF SOIL EXCAVATION

The Learner Company Property
768-46th Avenue
Oakland, California
Dames & Moore

FIGURE 5



KEY

Property boundary

Approximate stained area

Not to scale

FORMER BAILING AREA

The Learner Company Property
768-46th Avenue
Oakland, California

Dames & Moore

PLATE 3

TABLE 2
SURFACE SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY
LEARNER COMPANY
OAKLAND, CALIFORNIA

	B-02	B-03	B-04	B-05	B-06	B-07				
Date Sampled	06/22/89	06/22/89	06/22/89	06/22/89	06/22/89	06/22/89				
Sample ID #	35142	35141	35140	35139	35138	35137				
Laboratory ID #	47854-01	47854-02	47854-03	47854-08	47854-10	47854-09				
Analyzing Lab	Enseco	Enseco	Enseco	Enseco	Enseco	Enseco				
Sample Locations	Drive	Drive	Drive	N. Pile	N. Pile	Bailing Area				
Petroleum Hydrocarbons	Results	Results	Results	Results	Results	Results	TTLC	STLC	Limit	Units
TPH by IR	28000	3500	7700	5400	22000	1800	NA	NA	*	mg/Kg
Metals Analysis										
Cadmium	4.7	19	8.7	30	43	ND	100	1.0	0.5	mg/Kg
Chromium	39	218	44	75	178	ND	500	5.0	1	mg/Kg
Lead	322	5150	624	1940	1810	218	1000	5.0	5	mg/Kg
Nickel	44	698	61	149	265	ND	2000	20	4	mg/Kg
Zinc	849	3900	1530	6600	8820	531	5000	250	1	mg/Kg
Other Analysis										
Cyanide Reactive	ND	ND	ND	ND	ND	ND			0.1	mg/Kg
Sulfide Reactive	ND	ND	ND	ND	ND	ND			0.5	mg/Kg
pH	6.5	7.4	7.5	7.6	7.6	8.9			0.01	
Ignitability	ND	ND	ND	ND	ND	ND			140.	^{o}F
Bioassay	>750	>750	>750	>750	>750	>750				mg/L

Notes:

ND - Not detected above laboratory reporting limit.
* - The detection limit was raised due to high level of analyte present in the sample.
TTLC - Toxic Threshold Limit & Concentration, mg/kg.
STLC - Soluble Threshold Limit Concentration, mg/l.

1ET90-3

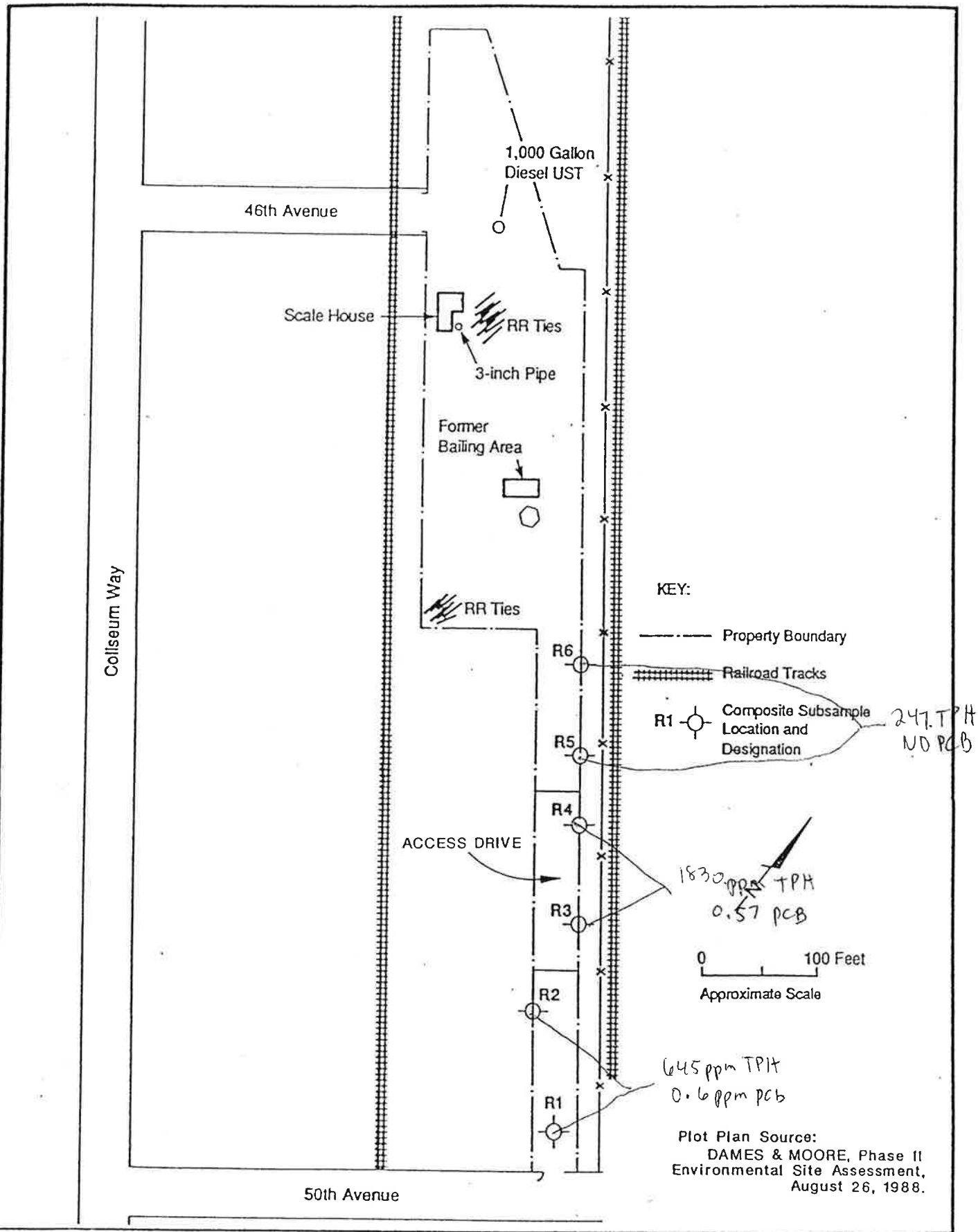
TABLE 2 (continued)
SURFACE SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY
LEARNER COMPANY
OAKLAND, CALIFORNIA

not sure where to plot these data

	B-08	B-09	B-10	B-11	B-12	Composite				
Date Sampled	06/22/89	06/22/89	06/22/89	06/22/89	06/22/89	06/22/89				
Sample ID #	35136	35147	35146	35145	35144	35135				
Laboratory ID #	47854-11	47854-07	47854-06	47854-05	47854-04	47854-12				
Analyzing Lab	Enseco	Enseco	Enseco	Enseco	Enseco	Enseco				
Sample Locations	Bailing Area	Bailing Area	Bailing Area	S. Pile	S. Pile	Bench Test Soil				
Petroleum Hydrocarbons	Results	Results	Results	Results	Results	Results	TTLC	STLC	Limit	Units
TPH by IR	780	1200	740	28000	25000	11000	NA	NA	*	mg/Kg
Metals Analysis										
Cadmium	3.8	9.7	16	42	16		100	1.0	0.5	mg/Kg
Chromium	50	60	88	131	238		500	5.0	1	mg/Kg
Lead (Total, Soluable)	209, 9.6	433	551	5230, 83.5	1210,102	998, 127	1000	5.0	5	mg/Kg,mg/L
Nickel	54	69	203	181	129		2000	20.0	4	mg/Kg
Zinc (Total, Soluable)	779, 68.4	1760	2500	8180, 379	2090, 240	3830, 448	5000	250.0	1	mg/Kg, mg/l
Other Analysis										
CyanideND	ND	ND	ND	ND					0.1	mg/Kg
Sulfide ND	ND	ND	ND	ND					0.5	mg/Kg
pH	8.0	7.6	7.2	7.1	7.4				0.01	
IgnitabilityND	ND	ND	ND	ND					140	^{o}F
Bioassay>750	>750	>750	>750	>750						mg/L

Notes:
ND - Not detected above laboratory reporting limit.
* - The detection limit was raised due to high level of analyte present in the sample.
TTLC - Toxic Threshold Limit & Concentration, mg/kg.
STLC - Soluble Threshold Limit Concentration, mg/l.

1ET90-3

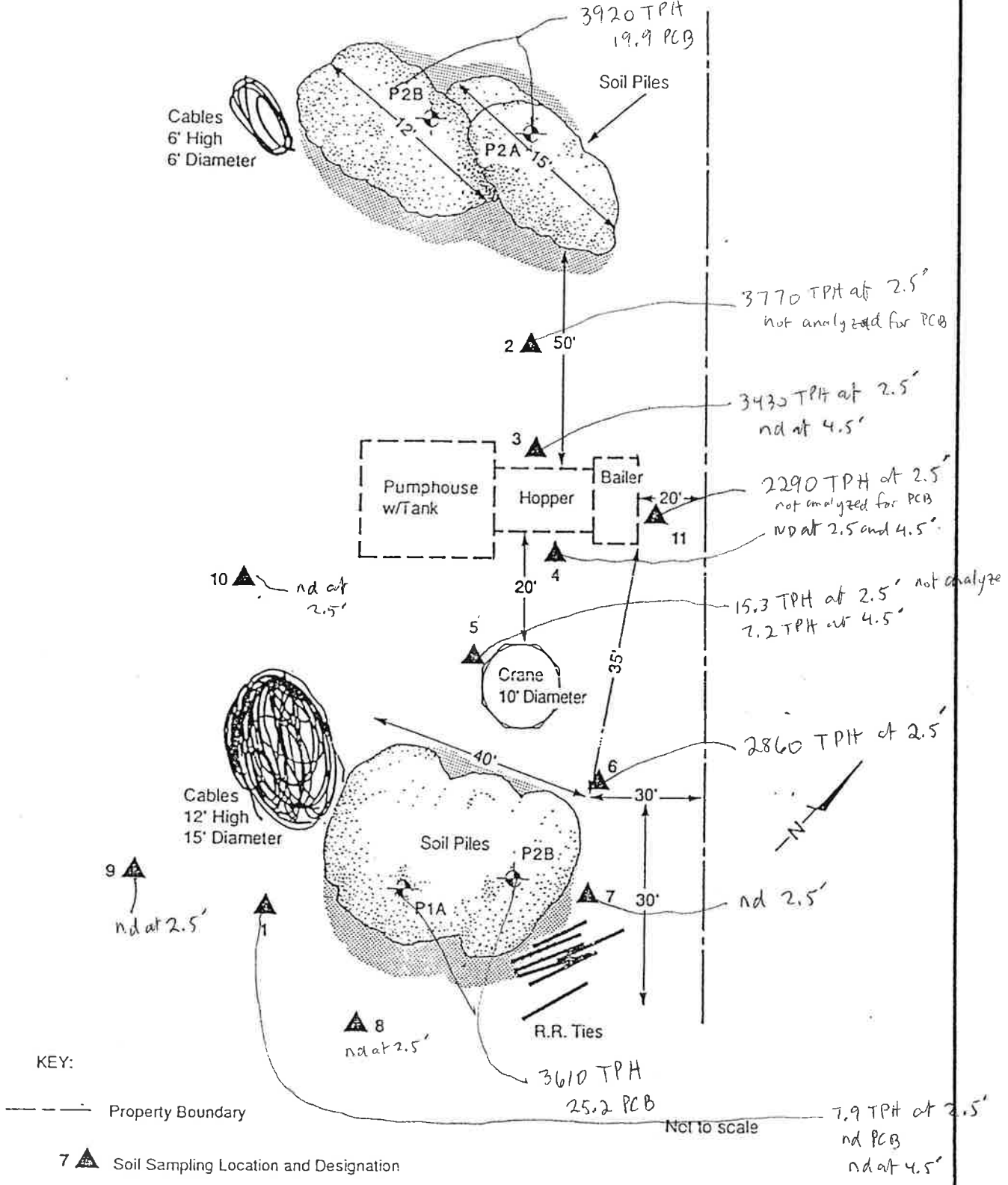


KLEINFELDER

PROJECT NO. 24-214100-B00

SAMPLING LOCATION MAP
ACCESS DRIVE
LEARNER COMPANY
OAKLAND, CALIFORNIA

PLATE
2



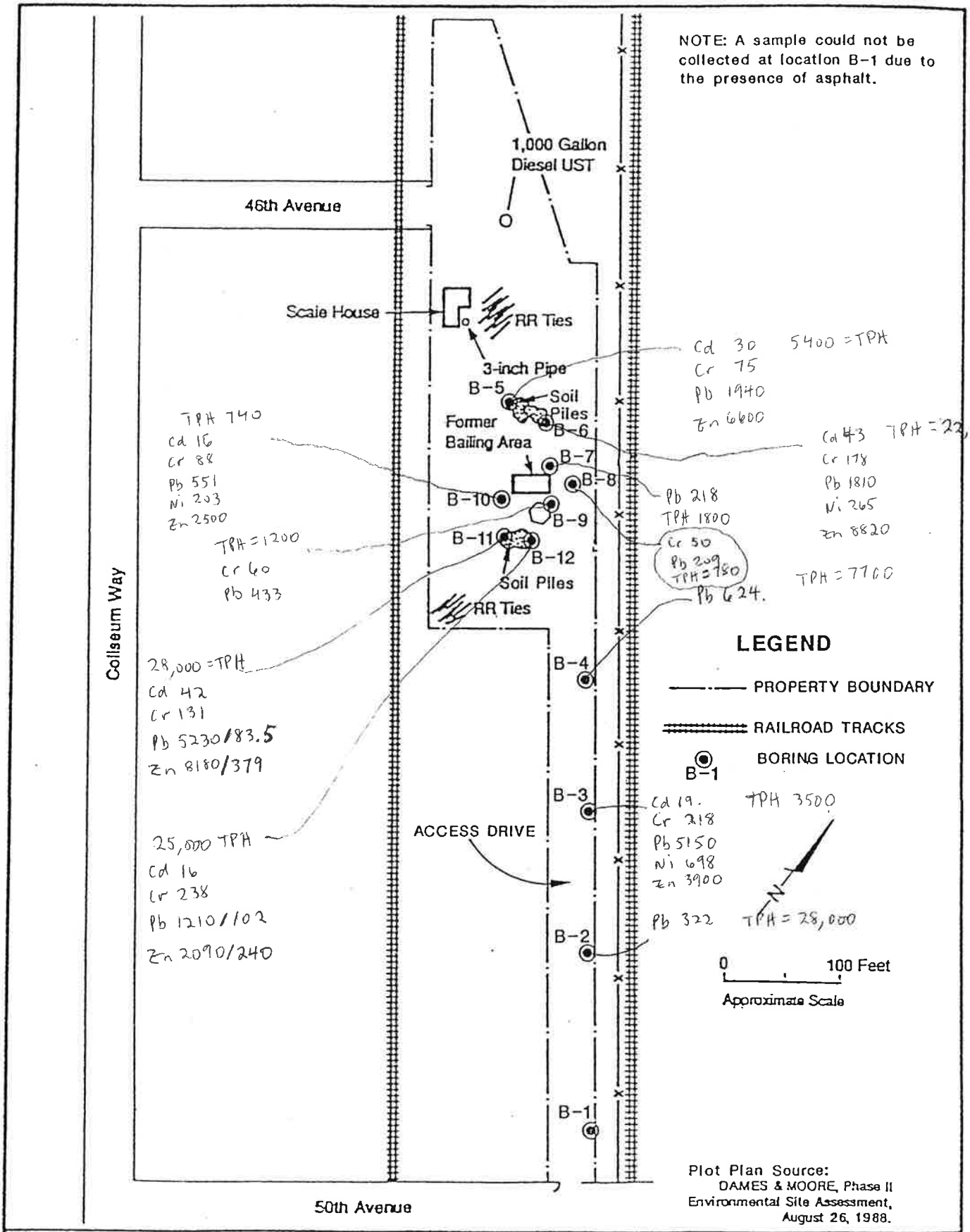
Plot Plan Source:
DAMES & MOORE, Phase II
Environmental Site Assessment,
August 26, 1988.

KLEINFELDER

PROJECT NO. 24-214100-B00

SAMPLING LOCATION MAP
FORMER BAILER AREA & SOIL PILES
LEARNER COMPANY
OAKLAND, CALIFORNIA

PLATE
3



KLEINFELDER

PROJECT NO. 24-214100-B00

SOIL SAMPLE LOCATION MAP

LEARNER COMPANY
OAKLAND, CALIFORNIA

PLATE 4

Table 1
Total Petroleum Hydrocarbons and Benzene, Toluene, Ethylbenzene, and Xylenes in Soil Samples Collected at the Learner Property 768 46th Avenue, Oakland, California

Concentrations in micrograms per kilogram (unless otherwise noted)

Sample ID	Date	TPHd (mg/kg)	TPHg (mg/kg)	TPHmo (mg/kg)	Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes
LP-1-4.0	04/07/2008	210Y	<0.96	650	NA	NA	NA	NA	NA
LP-1-4FT	04/02/2008	NA	NA	NA	<4.5	<4.5	<4.5	<4.5	<4.5
LP-2-1FT	04/04/2008	130Y	NA	670	<3.9	<3.9	<3.9	<3.9	<3.9
LP-2-5FT	04/04/2008	370Y	NA	1,000	<4.3	<4.3	<4.3	<4.3	<4.3
LP-4-2FT	04/04/2008	190Y	NA	2,600	<5.0	<5.0	<5.0	<5.0	<5.0
LP-4-4FT	04/04/2008	7.5	NA	51	<4.1	<4.1	<4.1	<4.1	<4.1
LP-5-2FT	04/04/2008	40Y	NA	110	<3.4	<3.4	<3.4	<3.4	<3.4
LP-5-4FT	04/04/2008	11	NA	99	<4.0	<4.0	<4.0	<4.0	<4.0
LP-6-2FT	04/04/2008	160Y	NA	760	<4.7	<4.7	<4.7	<4.7	<4.7
LP-6-4FT	04/04/2008	41Y	NA	110	<4.7	<4.7	<4.7	<4.7	<4.7
LP-7-2FT	04/04/2008	120Y	NA	400	<5.0	<5.0	<5.0	<5.0	<5.0
LP-7-4FT	04/04/2008	<0.99	NA	<5.0	<3.9	<3.9	<3.9	<3.9	<3.9
LP-8-2FT	04/04/2008	160Y	NA	450	<5.7	<5.7	<5.7	<5.7	<5.7
LP-8-4FT	04/04/2008	340Y	NA	730	<4.0	<4.0	<4.0	<4.0	<4.0
LP-9-1FT	04/04/2008	920Y	NA	2,300	<3.7	<3.7	<3.7	<3.7	<3.7
LP-9-4FT	04/04/2008	230Y	NA	1,100	<4.2	<4.2	<4.2	<4.2	<4.2
LP-10-2FT	04/04/2008	170Y	NA	440	<4.8	<4.8	<4.8	<4.8	<4.8
LP-10-4FT	04/04/2008	160Y	NA	440	<4.8	<4.8	<4.8	<4.8	<4.8
LP-11-2FT	04/04/2008	350Y	NA	1,500	<5.2	<5.2	<5.2	<5.2	<5.2
LP-11-4FT	04/04/2008	100Y	NA	660	<4.0	<4.0	<4.0	<4.0	<4.0
LP-13-2FT	04/04/2008	4.9Y	NA	48	<4.5	<4.5	<4.5	<4.5	<4.5
LP-13-4FT	04/04/2008	<1.0	NA	<5.0	<4.0	<4.0	<4.0	<4.0	<4.0
LP-15-1FT	04/04/2008	360Y	NA	1,500	<4.0	<4.0	<4.0	<4.0	<4.0

Table 1
Total Petroleum Hydrocarbons and Benzene, Toluene, Ethylbenzene, and Xylenes in Soil Samples Collected at the Learner Property 768 46th Avenue, Oakland, California

Concentrations in micrograms per kilogram (unless otherwise noted)

Sample ID	Date	TPHd (mg/kg)	TPHg (mg/kg)	TPHmo (mg/kg)	Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes
LP-15-5FT	04/04/2008	330Y	NA	1,300	<4.0	<4.0	<4.0	<4.0	<4.0
REGULATORY CONCENTRATIONS (RWQCB ESLs)									
Shallow soil where groundwater is not considered a source of drinking water - commercial land use		150	450	2,500	260	29,000	33,000	100,000	100,000

Notes:

(Y) the chromatographic pattern for TPHd and TPHg analyses did not resemble the laboratory standard for either TPHd or TPHg.
TPHd = total petroleum hydrocarbons as diesel
TPHg = total petroleum hydrocarbons as gasoline
TPHmo = total petroleum hydrocarbons as motor oil
NA = parameter not analyzed
mg/kg = milligrams per kilogram
Samples analyzed by: Curtis & Tompkins, Ltd.
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board (RWQCB), November 2007.

Table 2
Volatile Organic Compounds in Soil Samples
Collected at the Learner Property
768 46th Avenue, Oakland, California

Concentrations in micrograms per kilogram (unless otherwise noted)

Sample ID	Date	1,2-Dichlorobenzene	2-Butanone	Acetone	Methylene Chloride	sec-Butylbenzene
LP-1-4FT	04/02/2008	<4.5	<9.1	27	<18	<4.5
LP-2-1FT	04/04/2008	<3.9	<7.8	<16	<16	<3.9
LP-2-5FT	04/04/2008	<4.3	<8.6	<17	<17	<4.3
LP-4-2FT	04/04/2008	<5.0	<10	<20	<20	<5.0
LP-4-4FT	04/04/2008	<4.1	<8.2	<16	<16	<4.1
LP-5-2FT	04/04/2008	<3.4	<6.8	<14	<14	<3.4
LP-5-4FT	04/04/2008	<4.0	8.3	29	<16	<4.0
LP-6-2FT	04/04/2008	<4.7	<9.4	<19	78	<4.7
LP-6-4FT	04/04/2008	<4.7	<9.4	<19	19	<4.7
LP-7-2FT	04/04/2008	<5.0	<10	<20	<20	<5.0
LP-7-4FT	04/04/2008	<3.9	<7.8	<16	<16	<3.9
LP-8-2FT	04/04/2008	<5.7	<11	<23	<23	<5.7
LP-8-4FT	04/04/2008	<4.0	<7.9	<16	<16	<4.0
LP-9-1FT	04/04/2008	<3.7	<7.5	<15	<15	<3.7
LP-9-4FT	04/04/2008	<4.2	<8.5	<17	<17	<4.2
LP-10-2FT	04/04/2008	<4.8	<9.6	<19	<19	<4.8
LP-10-4FT	04/04/2008	<4.8	<9.6	<19	<19	<4.8
LP-11-2FT	04/04/2008	<5.2	<10	<21	<21	<5.2
LP-11-4FT	04/04/2008	<4.0	<7.9	<16	<16	<4.0
LP-13-2FT	04/04/2008	<4.5	<8.9	<18	<18	<4.5
LP-13-4FT	04/04/2008	<4.0	<7.9	<16	<16	<4.0
LP-15-1FT	04/04/2008	<4.0	<7.9	<16	<16	<4.0

Table 2
Volatile Organic Compounds in Soil Samples
Collected at the Learner Property
768 46th Avenue, Oakland, California

Concentrations in micrograms per kilogram (unless otherwise noted)

Sample ID	Date	1,2-Dichlorobenzene	2-Butanone	Acetone	Methylene Chloride	sec-Butylbenzene
LP-15-5FT	04/04/2008	8.6	<7.9	<16	<16	5.8
REGULATORY CONCENTRATIONS (RWQCB ESLs)						
Shallow soil where groundwater is not considered a source of drinking water - commercial land use		2,600	NE	17,000	16,000	NE

Notes:

NE = none established
Samples analyzed by: Curtis & Tompkins, Ltd.
Volatile organic compounds not reported in this summary table were not detected above the analytical reporting limits.
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board (RWQCB), November 2007.

Table 3
Polychlorinated Biphenyls in Soil Samples
Collected at the Learner Property
768 46th Avenue, Oakland, California

Concentrations in micrograms per kilogram (unless otherwise noted)

Sample ID	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
LP-2-1FT	04/04/2008	<42	<84	<42	<42	800	1,300	490
LP-2-5FT	04/04/2008	<17	<33	<17	650	<17	280	62
LP-4-2FT	04/04/2008	<12	<24	<12	<12	160	220	160
LP-4-4FT	04/04/2008	<12	<24	<12	<12	<12	<12	<12
LP-5-2FT	04/04/2008	<83	<170	<83	<83	<83	340	1,300
LP-5-4FT	04/04/2008	<12	<24	<12	<12	<12	<12	16
LP-6-2FT	04/04/2008	<42	<83	<42	<42	1,700	3,700	1,700
LP-6-4FT	04/04/2008	<12	<24	<12	<12	<12	<12	22
LP-7-2FT	04/04/2008	<12	<24	<12	<12	<12	310	250
LP-7-4FT	04/04/2008	<12	<24	<12	<12	<12	<12	<12
LP-8-2FT	04/04/2008	<17	<33	<17	<17	350	970	910
LP-8-4FT	04/04/2008	<170	<330	<170	<170	4,200	6,800	2,400
LP-9-1FT	04/04/2008	<12	<24	<12	<12	<12	<12	<12
LP-9-4FT	04/04/2008	<12	<24	<12	<12	<12	14	<12
LP-10-2FT	04/04/2008	<25	<50	<25	<25	<25	720	1,600
LP-10-4FT	04/04/2008	<42	<83	<42	<42	<42	1,100	2,900
LP-11-2FT	04/04/2008	<25	<50	<25	<25	<25	670	740
LP-11-4FT	04/04/2008	<83	<170	<83	<83	470	1,800	690
LP-13-2FT	04/04/2008	<12	<24	<12	<12	<12	27	34
LP-13-4FT	04/04/2008	<12	<24	<12	<12	<12	<12	<12
LP-15-1FT	04/04/2008	<12	<24	<12	<12	<12	12	13

Table 3
Polychlorinated Biphenyls in Soil Samples
Collected at the Learner Property
768 46th Avenue, Oakland, California

Concentrations in micrograms per kilogram (unless otherwise noted)

Sample ID	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
LP-15-5FT	04/04/2008	<17	<33	<17	<17	400	500	290
REGULATORY CONCENTRATIONS (RWQCB ESLs)								
Shallow soil where groundwater is not considered a source of drinking water - commercial land use		300	300	300	300	300	300	300

Notes:

Samples analyzed by: Curtis & Tompkins, Ltd.
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board (RWQCB), November 2007.

Table 4
Metals in Soil Samples Collected at the Learner Property
768 46th Avenue, Oakland, California

Concentrations in milligrams per kilogram (unless otherwise noted)

Sample ID	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
LP-1-4.0	04/07/2008	<0.50	4.9	320	0.27	1.9	36	8.5	48	130	0.53	43	<0.50	<0.25	<0.50	32	750	0.46
LP-2-1FT	04/04/2008	7.1	13	660	0.20	14	75	19	370	1,000	6.9	110	<0.50	2.1	<0.50	27	4,200	1.8
LP-2-5FT	04/04/2008	0.65	5.2	130	0.41	1.0	55	7.0	32	66	0.86	52	<0.50	<0.25	<0.50	32	220	0.21
LP-4-2FT	04/04/2008	17	6.3	540	0.14	2.3	39	8.7	100	1,000	1.7	52	2.7	<0.25	<0.50	35	760	0.32
LP-4-4FT	04/04/2008	<0.50	1.8	680	0.14	0.40	25	5.8	49	110	<0.25	15	0.90	<0.25	<0.50	24	130	0.13
LP-5-2FT	04/04/2008	<0.50	4.0	150	0.22	0.26	34	5.5	15	19	0.72	33	<0.50	0.33	<0.50	29	64	0.041
LP-5-4FT	04/04/2008	<0.50	13	250	0.34	0.28	42	18	12	63	0.55	40	2.8	<0.25	<0.50	33	43	0.15
LP-6-2FT	04/04/2008	3.0	12	690	0.23	10	60	13	610	910	8.1	86	3.5	1.1	<0.50	29	2,800	1.7
LP-6-4FT	04/04/2008	<0.50	8.3	670	0.33	0.29	43	10	19	83	0.30	59	<0.50	<0.25	<0.50	31	93	0.15
LP-7-2FT	04/04/2008	<0.50	4.8	220	0.17	1.9	44	10	55	160	1.7	47	2.5	<0.25	<0.50	33	620	1.6
LP-7-4FT	04/04/2008	<0.50	6.9	150	0.33	0.39	37	9.7	14	58	1.1	48	1.8	<0.25	<0.50	30	47	0.15
LP-8-2FT	04/04/2008	<0.50	11	290	0.22	1.1	45	9.7	44	180	1.2	48	1.7	<0.25	<0.50	29	250	0.36
LP-8-4FT	04/04/2008	26	38	990	<0.10	36	180	27	1,400	2,700	32	190	8.5	3.8	<0.50	27	10,000	7.0
LP-9-1FT	04/04/2008	22	20	860	<0.10	29	100	21	520	2,700	19	280	6.4	1.6	<0.50	21	8,000	2.7
LP-9-4FT	04/04/2008	<0.50	4.8	100	0.37	<0.25	48	9.2	21	7.7	0.89	81	<0.50	<0.25	<0.50	40	56	0.29
LP-10-2FT	04/04/2008	<0.50	7.7	270	0.24	1.2	38	8.8	50	170	1.2	52	2.4	<0.25	<0.50	27	320	0.26
LP-10-4FT	04/04/2008	<0.50	6.1	210	0.23	0.65	48	8.6	33	66	1.2	44	1.7	<0.25	<0.50	28	160	0.17
LP-11-2FT	04/04/2008	<0.50	4.7	260	0.17	0.98	37	9.4	51	120	0.84	45	1.2	<0.25	<0.50	29	270	0.31
LP-11-4FT	04/04/2008	3.4	6.8	450	0.22	4.8	47	12	140	310	4.2	75	<2.5	0.32	<0.50	27	1,800	0.69
LP-13-2FT	04/04/2008	<0.50	4.3	260	0.29	0.35	38	7.1	37	54	0.35	32	1.3	<0.25	<0.50	25	110	0.52
LP-13-4FT	04/04/2008	<0.50	5.6	190	0.36	<0.25	44	11	15	53	0.26	58	0.51	<0.25	<0.50	32	41	0.99
LP-15-1FT	04/04/2008	<0.50	5.7	170	0.37	0.30	38	9.8	15	33	1.1	43	1.8	<0.25	<0.50	32	56	0.071
LP-15-5FT	04/04/2008	4.4	18	350	0.24	11	100	22	500	720	9.6	130	7.7	1.1	<0.50	34	3,000	1.8
REGULATORY CONCENTRATIONS (RWQCB ESLs)																		
Shallow soil where groundwater is not considered a source of drinking water - commercial land use		40	1.5	1500	8.0	7.4	750	80	230	750	40	150	10	40	15	190	600	10
Background concentrations in soil from Lawrence Berkeley National Laboratory Study - 2002		NE	19.1	323.6	1.0	2.7	99.6	22.2	69.4	16.1	7.4	119.8	5.6	1.8	7.6	74.3	106.1	0.4

Notes:

NE = none established
Samples analyzed by: Curtis & Tompkins, Ltd.
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board (RWQCB), November 2007

Table 5
Total Petroleum Hydrocarbons and Benzene, Toluene, Ethylbenzene, and Xylenes in Groundwater Samples Collected at the Learner Property 768 46th Avenue, Oakland, California

Concentrations in micrograms per liter (unless otherwise noted)

Sample ID	Date	TPHd (mg/kg)	TPHg (mg/kg)	TPHmo (mg/kg)	Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylenes
LP-1	04/02/2008	160Y	NA	680	<0.5	<0.5	<0.5	<0.5	<0.5
LP-2	04/04/2008	2,500	NA	3,000	<0.5	<0.5	<0.5	<0.5	<0.5
LP-6	04/04/2008	51Y	NA	<300	<0.5	<0.5	<0.5	<0.5	<0.5
LP-13	04/04/2008	<50	NA	680	<0.5	<0.5	<0.5	<0.5	<0.5
REGULATORY CONCENTRATIONS (RWQCB ESLs)									
Where groundwater is not considered a source of drinking water - commercial land use		2,500	5,000	2,500	540	400	300	5,300	5,300

Notes:

(Y) the chromatographic pattern for TPHd and TPHg analyses did not resemble the laboratory standard for either TPHd or TPHg.
TPHd = total petroleum hydrocarbons as diesel
TPHg = total petroleum hydrocarbons as gasoline
TPHmo = total petroleum hydrocarbons as motor oil
NA = parameter not analyzed
mg/kg = milligrams per kilogram
Samples analyzed by: Curtis & Tompkins, Ltd.
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board (RWQCB), November 2007.

Table 6
Volatile Organic Compounds in Groundwater Samples
Collected at the Learner Property
768 46th Avenue, Oakland, California

Concentrations in micrograms per liter (unless otherwise noted)

Sample ID	Date	1,1-DCA	1,2,4-TCB	1,2-DCB	1,2-DCA	BDCM	CB	cis-1,2-DCE	n-BB	sec-Butylbenzene	tert Butylbenzene
LP-1	04/02/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP-2	04/04/2008	<0.5	0.7	1.6	<0.5	<0.5	0.9	<0.5	2.3	3.3	1.4
LP-6	04/04/2008	2.9	<0.5	<0.5	2.4	0.7	<0.5	2.4	<0.5	<0.5	<0.5
LP-13	04/04/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
REGULATORY CONCENTRATIONS (RWQCB ESLs)											
Where groundwater is not considered a source of drinking water - commercial land use		1,000	2,500	100	200	NE	500	62,000	NE	NE	NE

Notes:

NE = none established
1,1-DCA =1,1-Dichloroethane
1,2,4-TCB = 1,2,4-Trichlorobenzene
1,2-DCB =1,2-Dichlorobenzene
1,2 DCA =1,2-Dichloroethane
BDCM =Bromodichloromethane
CB = Chlorobenzene
cis-1,2-DCE = cis-1,2-Dichloroethene
n-BB = n-Butylbenzene
Samples analyzed by: Curtis & Tompkins, Ltd.
Volatile organic compounds not reported in this summary table were not detected above the analytical reporting limits.
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board (RWQCB), November 2007.

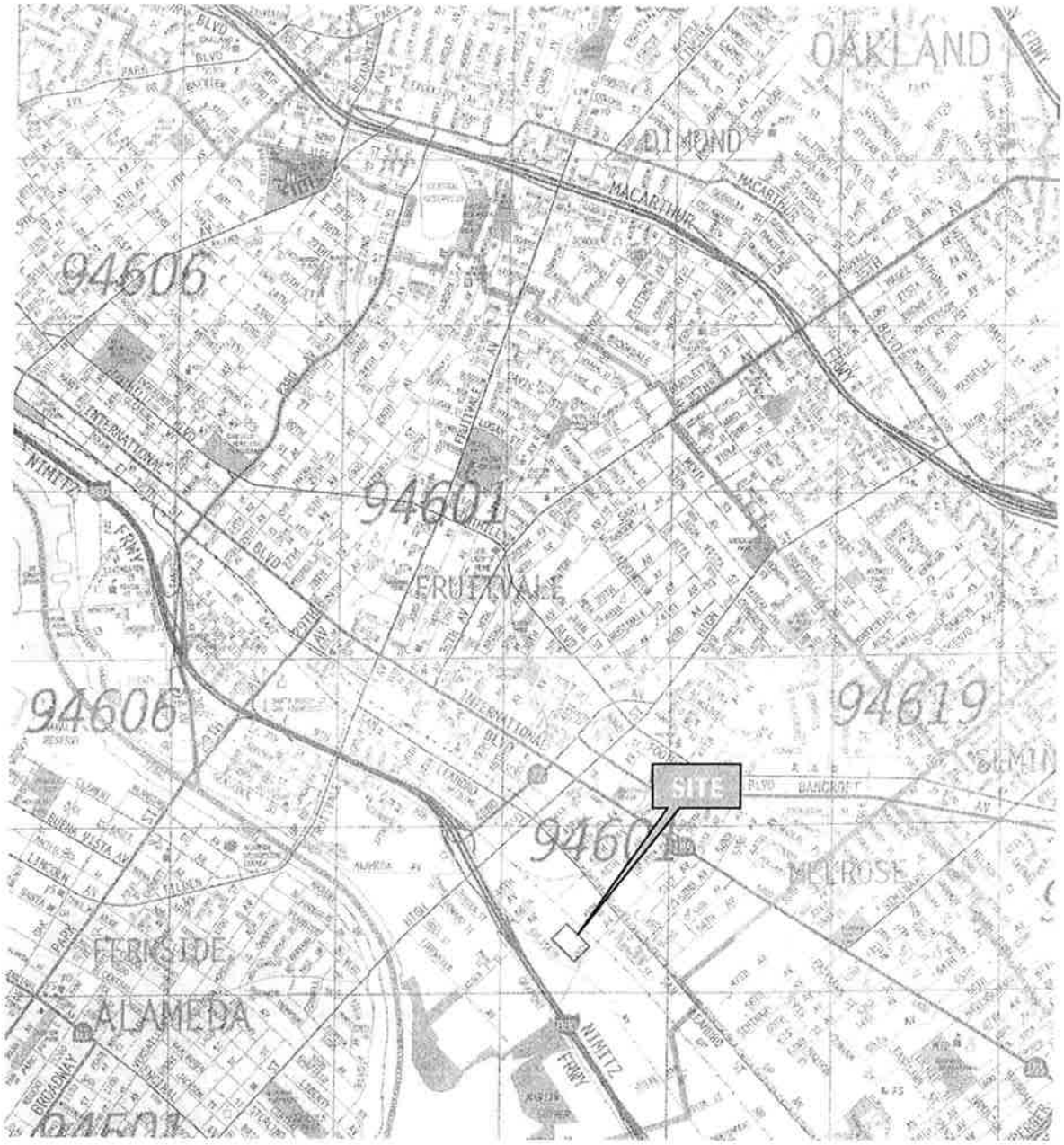
Table 7
Metals in Groundwater Samples Collected at the Learner Property
768 46th Avenue, Oakland, California

Concentrations in micrograms per liter (unless otherwise noted)

Sample ID	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
LP-1	04/02/2008	<10	<5.0	60	<2.0	<5.0	<5.0	<5.0	<5.0	<3.4	13	30	<10	<5.0	<10	<5.0	<20
LP-2	04/04/2008	<10	<6.1	320	<2.0	<5.0	<5.0	<5.0	<5.0	<3.0	36	6.5	<10	<5.0	<10	<5.0	<20
LP-6	04/04/2008	<10	<6.1	76	<2.0	<5.0	6.1	<5.0	23	<3.0	11	11	<10	<5.0	<10	<5.0	42
LP-13	04/04/2008	<10	<6.1	180	<2.0	<5.0	<5.0	<5.0	<5.0	<3.0	14	8.0	<10	<5.0	<10	<5.0	<20
REGULATORY CONCENTRATIONS (RWQCB ESLs)																	
Where groundwater is not considered a source of drinking water - commercial land use		50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000

Notes:

Samples analyzed by: Curtis & Tompkins, Ltd.
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board (RWQCB), November 2007



0 1/2 mile

SOURCE: Thomas Bros 1998 Alameda Co

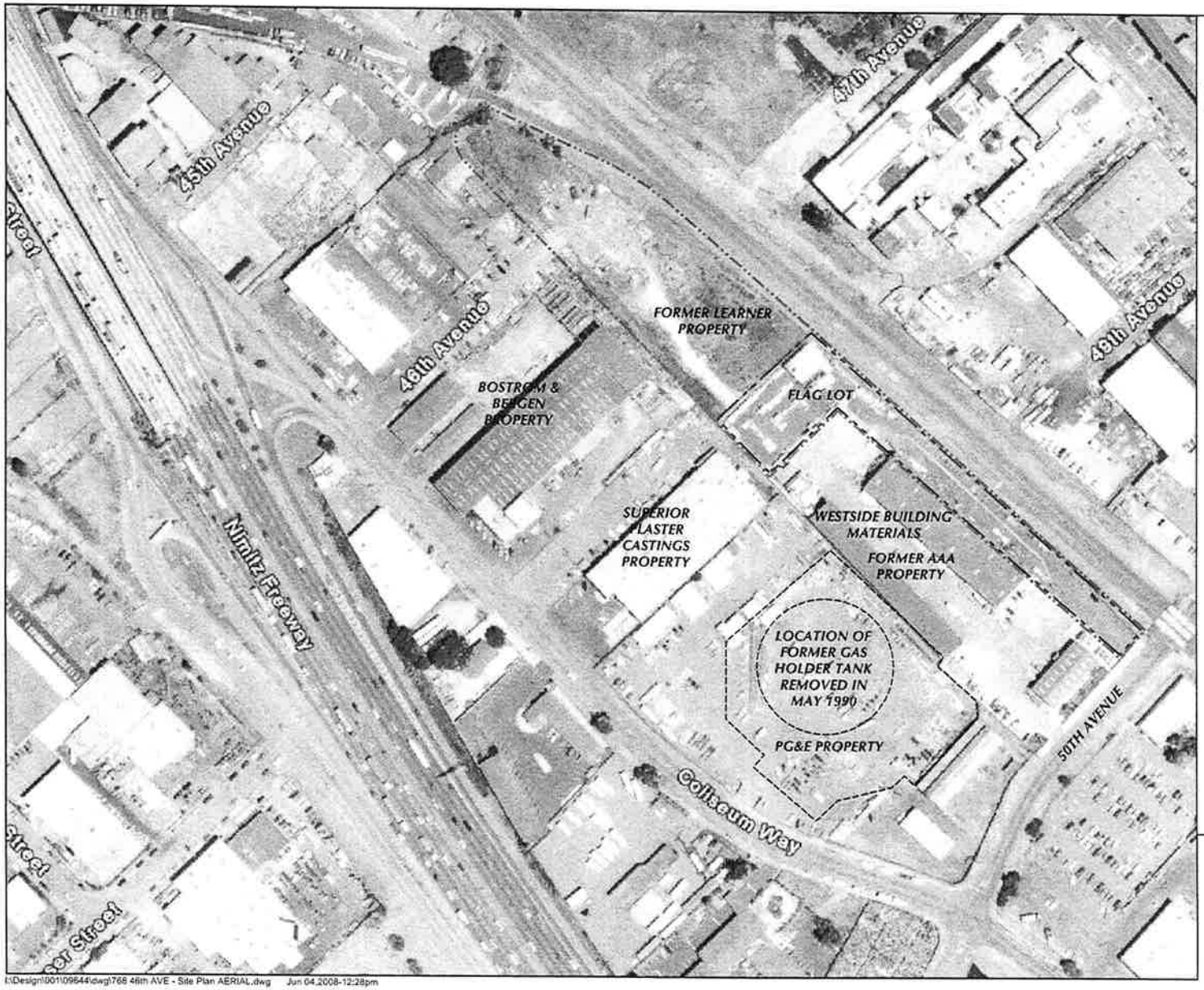
Site Location Map

768 46th Avenue, Oakland, California

LFR

Figure 1

I:\Design\001\09644\768 46th AVE Site Location Map.ai



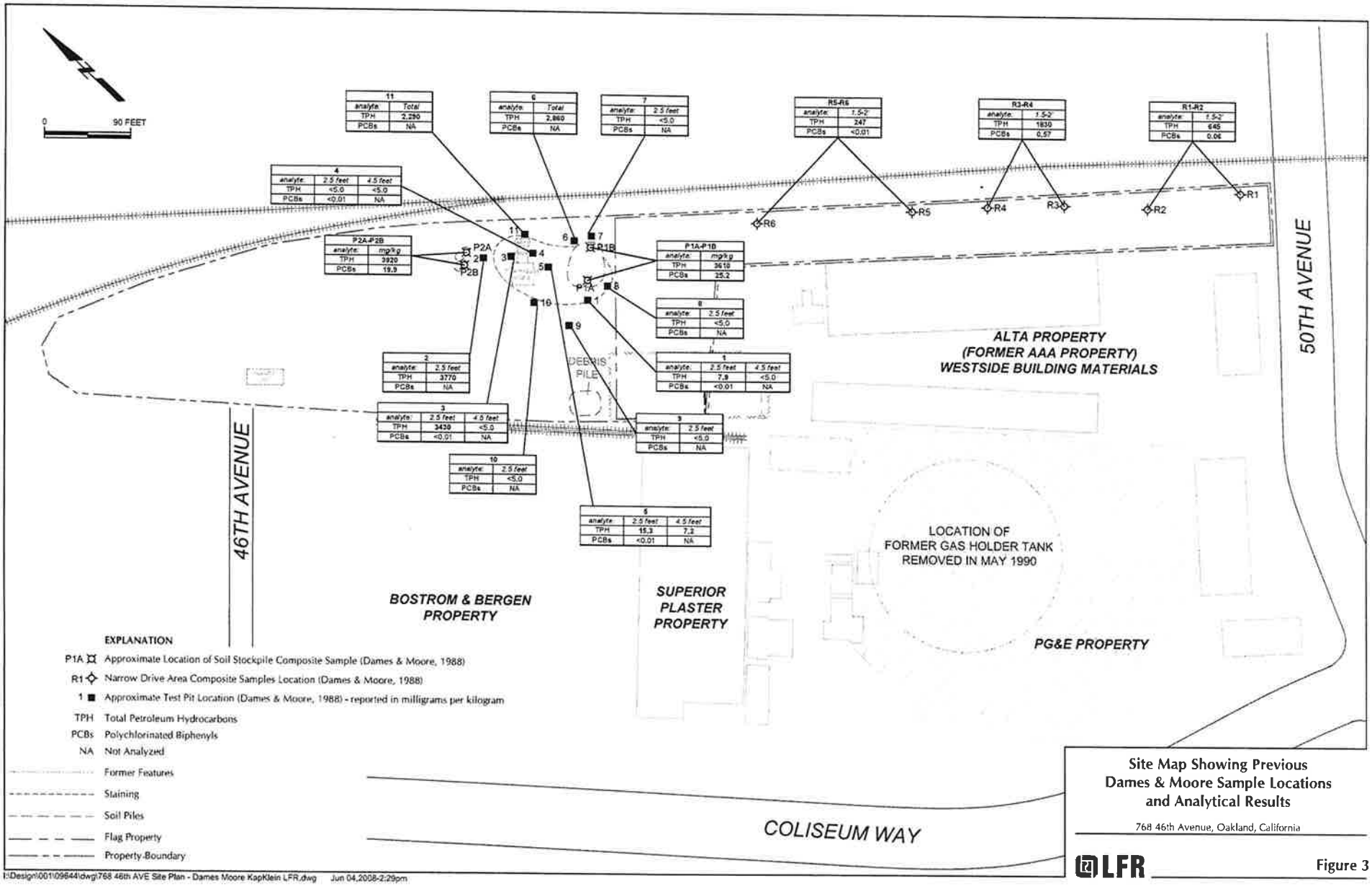
I:\Design\001\09644\dwg\768 46th AVE - Site Plan AERIAL.dwg Jun 04,2008-12:28pm

Area Overview

768 46th Avenue, Oakland, California

LFR

Figure 2



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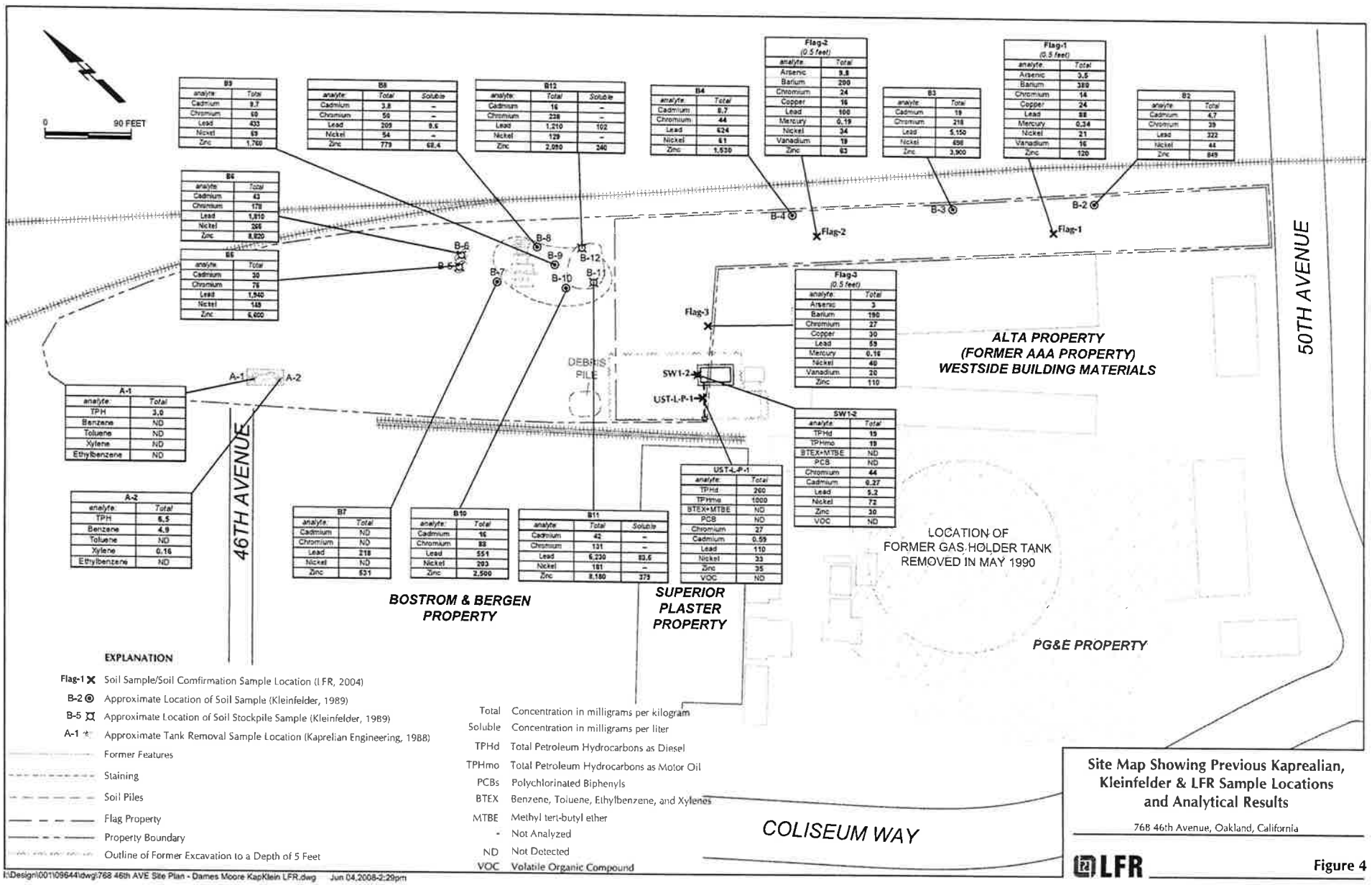
Site Map Showing Previous Dames & Moore Sample Locations and Analytical Results

768 46th Avenue, Oakland, California

LFR

Figure 3

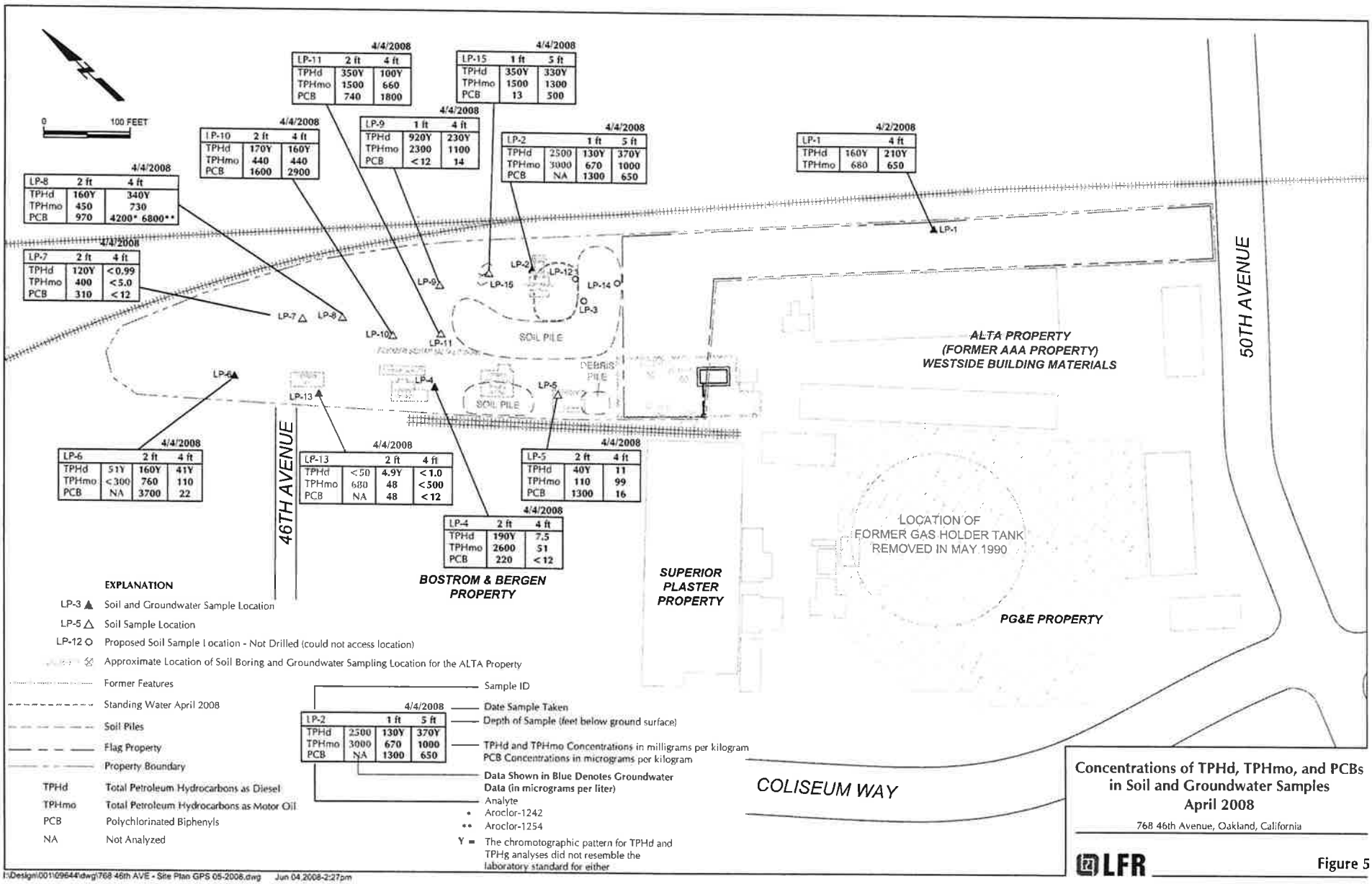


Site Map Showing Previous Kaprealian, Kleinfelder & LFR Sample Locations and Analytical Results

768 46th Avenue, Oakland, California

LFR

Figure 4



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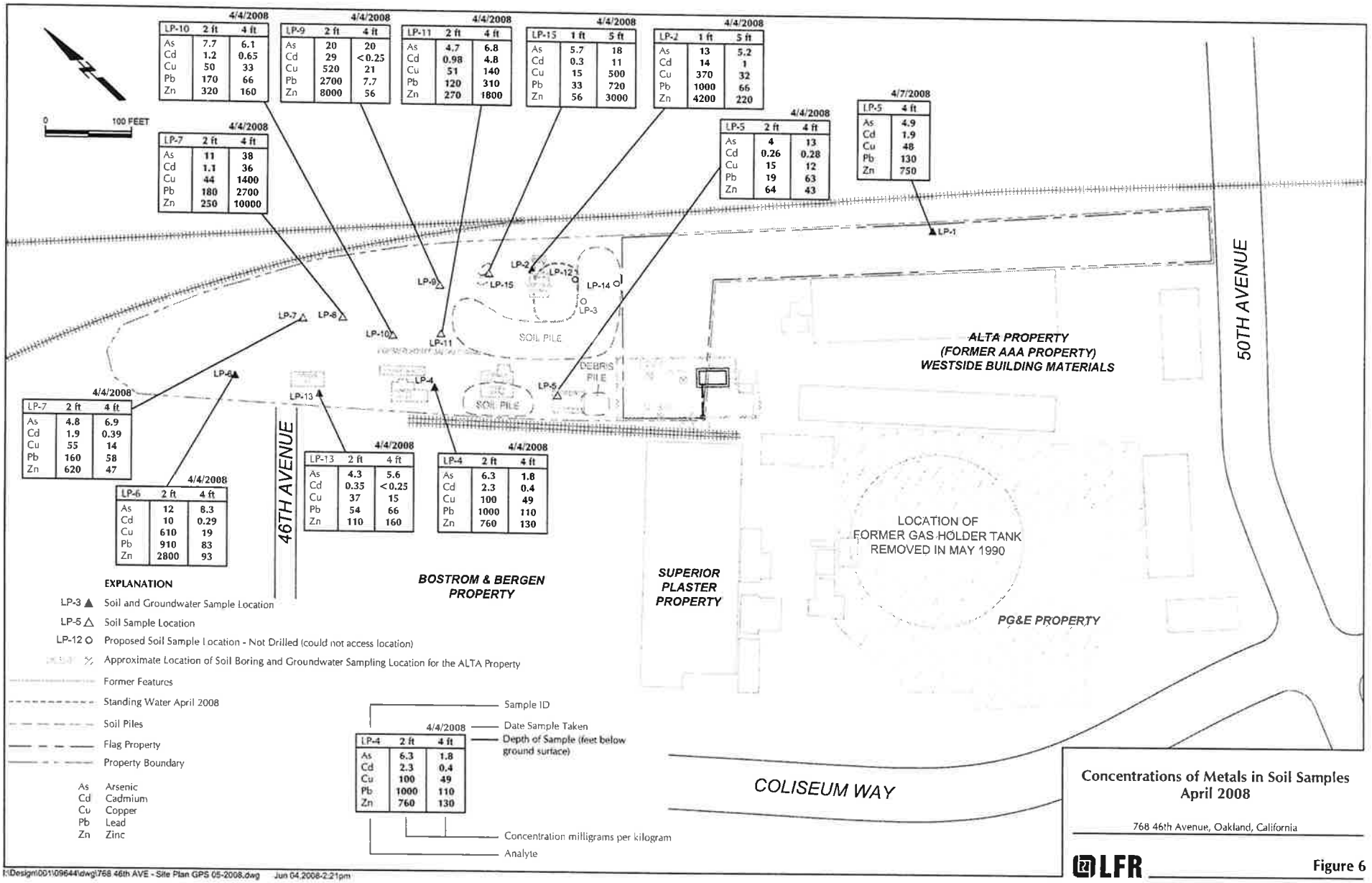
Concentrations of TPHd, TPHmo, and PCBs in Soil and Groundwater Samples April 2008

768 46th Avenue, Oakland, California

LFR

Figure 5



Concentrations of Metals in Soil Samples
April 2008

768 46th Avenue, Oakland, California

LFR

Figure 6

APPENDIX C

ALAMEDA COUNTY PUBLIS WORKS AGENCY DRILLING PERMITS

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: 06/24/2008 By jamesy

Permit Numbers: W2008-0367
Permits Valid from 06/27/2008 to 06/27/2008

Application Id: 1213806372226
City of Project Site: Oakland
Site Location: 4700 Coliseum Wy, Oakland, CA
Project Start Date: 06/27/2008
Completion Date: 06/27/2008
Requested Inspection: 06/27/2008
Scheduled Inspection: 06/27/2008 at 2:00 PM (Contact your inspector, Vicky Hamlin at (510) 670-5443, to confirm.)

Applicant: PES Environmental - Gary Thomas
1682 Novato Blvd #100, Novato, CA 94947
Phone: 415-899-1600

Property Owner: John Weber of Cox, Castle & Nicholson also
Stuart Block
555 California St, 10th flr., San Francisco, CA 94104
Phone: 415-262-5105

Client: ** same as Property Owner **

	Total Due:	$200.00
Receipt Number: WR2008-0218	**Total Amount Paid:**	$200.00
Payer Name : PES Environmental	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Geotechnical Study/CPT's - 8 Boreholes
Driller: Vironex Inc. - Lic #: 705927 - Method: DP

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2008-0367	06/24/2008	09/25/2008	8	3.00 in.	28.00 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.

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. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five

(5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. Cuttings may also be left on site or spread out as long as the applicants has approval from the property owner and the cuttings will not violate the State and County Clean Water laws (NPDES).

8. 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.

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: 07/22/2008 By jamesy

Permit Numbers: W2008-0491
Permits Valid from 07/31/2008 to 07/31/2008

Application Id: 1216768413253
City of Project Site: Oakland
Site Location: 4700 Coliseum Way, Oakland CA
Project Start Date: 07/31/2008
Completion Date: 07/31/2008
Requested Inspection: 07/31/2008
Scheduled Inspection: 07/31/2008 at 1:00 PM (Contact your inspector, Ron Smalley at (510) 670-5407, to confirm.)

Applicant: PES, Environmental, Inc - Gary Thomas
1682 Novato Blvd,.Suite 100, Novato, CA 94947
Phone: 415-899-1600

Property Owner: John Weber-c/o Cox, Castle Nicholson, LLC
(Stuart Block-Contact)
555 California Street,. 10th Floor, San Francisco, CA 94104
Phone: 415-262-5105

Client: ** same as Property Owner **

Total Due: $230.00
Receipt Number: WR2008-0251 **Total Amount Paid:** $230.00
Payer Name : PES Environmental, Inc Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 7 Boreholes
Driller: Vironex, Inc - Lic #: 705927 - Method: DP

Work Total: $230.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2008-0491	07/22/2008	10/29/2008	7	2.50 in.	15.00 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. Applicant shall contact Ron Smalley for an inspection time at 510-670-5407 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. 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.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and

coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. 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 D

LITHOLOGIC LOGS

GrfcText:USCS CHART 2 9/2/2008 12:28:56 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

PES Environmental, Inc.
Engineering & Environmental Services

Unified Soil Classification System Chart
4600-4700 Coliseum Way
Oakland, California

PLATE
D-0

1148.001.03.003	USCS Chart	GDT	08/08
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING B-1

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
0				DARK BROWN GRAVELLY SILT (ML) (10YR3/3), dry, soft to medium stiff, angular to subangular gravel up to 0.5 inches in diameter, minor very fine sand (25% gravel, <5% sand, 70-75% fines)
0				
0	B-1-2.5'-3'			YELLOWISH BROWN SILTY CLAY (CL) (10YR5/8), dry, stiff, low plasticity, minor sand, (0% gravel, <5% sand, >95% fines)
	B-1-3.5'-4'			
0		5		
0				
	B-1-7.5'-8'			YELLOWISH BROWN GRAVELLY CLAY (CL) (10YR5/8), moist, stiff, low plasticity, angular to subangular gravel up to 0.25 inches in diameter, minor fine sand, (35% gravel, <5% sand, 60-65% fines) Color change to grayish green (5G4/2) at 8 feet
		10		YELLOWISH BROWN CLAY WITH GRAVEL (CL) (10YR5/8), moist, stiff, low plasticity, angular to subangular gravel up to 0.25 inches in diameter, (15% gravel, 0% sand, 85% fines)
5.5				YELLOWISH BROWN GRAVELLY CLAY WITH SAND (CL) (10YR5/8), wet, soft, angular to subangular gravel up to 0.25-inches in diameter, very fine sand, (25% gravel, 15% sand, 60% fines)
5.3				
		15		Bottom of boring at 15 feet bgs. Grab groundwater sample B-1-W collected from boring. Boring backfilled with neat cement grout.
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	15 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	6/27/08
DRILL RIG	Geoprobe 6600 (Direct Push)	DATE COMPLETED	6/27/08

PLATE

D-1

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-2

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				No lithology availiable; only grab groundwater sample collected at this location.
		5		
		10		
		15		Bottom of boring at 15 feet bgs. Grab groundwater sample B-2-W collected from boring. Boring backfilled with neat cement grout.
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	15 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	6/27/08
DRILL RIG	Geoprobe 6600 (Direct Push)	DATE COMPLETED	6/27/08

PLATE

D-2

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-3

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				No lithology availiable; only grab groundwater sample collected at this location.
		5		
		10		
		15		Bottom of boring at 15 feet bgs. Grab groundwater sample B-3-W collected from boring. Boring backfilled with neat cement grout.
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	15 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	6/27/08
DRILL RIG	Geoprobe 6600 (Direct Push)	DATE COMPLETED	6/27/08

PLATE

D-3

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-4

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
0				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, stiff, angular to subangular gravel, minor very fine sand, (25% gravel, <5% sand, 70-75% fines)
0				VERY DARK GRAY CLAY WITH SILT (CL) (10YR3/1), moist, soft, low plasticity, minor angular gravel up to 0.25-inches in diameter, (<5% gravel, 0% sand, 95-100% fines)
	B-4-2.5'-3'			
0		5		YELLOWISH BROWN SILTY CLAY (CL) (10YR5/8), dry, stiff, low plasticity, minor very fine sand, (0% gravel, <5% sand, >95% fines)
	B-4-6'-6.5'			
0				
0		10		YELLOWISH BROWN GRAVELLY CLAY (CL) (10YR5/8), moist, stiff, low plasticity, angular to subangular gravel up to 0.25-inches in diameter, minor fine sand, (25% gravel, <5% sand, 70-75% fines)
				▽
				YELLOWISH BROWN CLAYEY SAND (SC) (10YR5/8), wet, loose, poorly graded coarse sand, minor gravel, (<5% gravel, 60% sand, 35-40% fines)
0				YELLOWISH BROWN CLAY (CL) (10YR5/8), moist, very stiff, low plasticity, (0% gravel, 0% sand, 100% fines)
		15		Bottom of boring at 15 feet bgs. Grab groundwater sample B-4-W collected from boring. Boring backfilled with neat cement grout.
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	15 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	6/27/08
DRILL RIG	Geoprobe 6600 (Direct Push)	DATE COMPLETED	6/27/08

PLATE

D-4

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-5

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
0				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, stiff, angular to subangular gravel, minor very fine sand, (25% gravel, <5% sand, 70-75% fines)
0				
0				VERY DARK GRAY SILTY CLAY (CL) (10YR3/1), dry, soft, low plasticity, minor angular gravel up to 0.25-inches in diameter, (<5% gravel, 0% sand, >95% fines)
0	B-5-2.5'-3'			
0				YELLOWISH BROWN SILTY CLAY (CL) (10YR5/8), dry, stiff, low plasticity, minor very fine sand, (0% gravel, <5% sand, >95% fines)
		5		
0	B-5-6'-6.5'			
0				
0				DARK GREENISH GRAY SAND (SP) (5G4/1), wet, medium dense, very fine sand, (0% gravel, 100% sand, 0% fines)
				YELLOWISH BROWN SILTY CLAY (CL) (10YR5/8), moist, stiff, low plasticity, minor very fine sand, (0% gravel, <5% sand, >95% fines)
		10		
0				▽
				YELLOWISH BROWN SILTY CLAY WITH GRAVEL (CL) (10YR5/8), wet, soft, angular gravel up to 0.25-inches in diameter, minor fine sand, (15% gravel, <5% sand, 80-85% fines)
0				
0				
0				
0				
		15		Bottom of boring at 15 feet bgs. Boring backfilled with neat cement grout.
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	15 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	6/27/08
DRILL RIG	Geoprobe 6600 (Direct Push)	DATE COMPLETED	6/27/08

PLATE

D-5

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-6

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
0				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, stiff, minor very fine sand, (25% gravel, <5% sand, 70-75% fines)
0				
0				VERY DARK GRAY CLAY WITH SILT (ML) (10YR3/1), moist, soft, low plasticity, minor gravel up to 0.25-inches in diameter, (<5% gravel, 0% sand, >95% fines)
	B-6-2.5'-3'			
0				
		5		
0				YELLOWISH BROWN SILTY CLAY (CL) (10YR5/8), dry, stiff, low plasticity, minor very fine sand, (0% gravel, <5% sand, >95% fines)
	B-6-6'-6.5'			
0				
0				YELLOWISH BROWN GRAVELLY CLAY (CL) (10YR5/8), moist, stiff, low plasticity, angular to subangular gravel up to 0.25-inches in diameter, (25% gravel, <5% sand, 70-75% fines)
				DARK GREENISH GRAY SANDY SILTY CLAY (CL) (5G4/1), wet, soft, low plasticity, very fine sand, (0% gravel, 25% sand, 75% fines)
		10		
0				YELLOWISH BROWN CLAY (CL) (10YR5/8), moist, stiff, low plasticity, (0% gravel, 0% sand, 100% fines)
0				
		15		Bottom of boring at 15 feet bgs. Grab groundwater sample B-6-W collected from boring. Boring backfilled with neat cement grout.
		20		

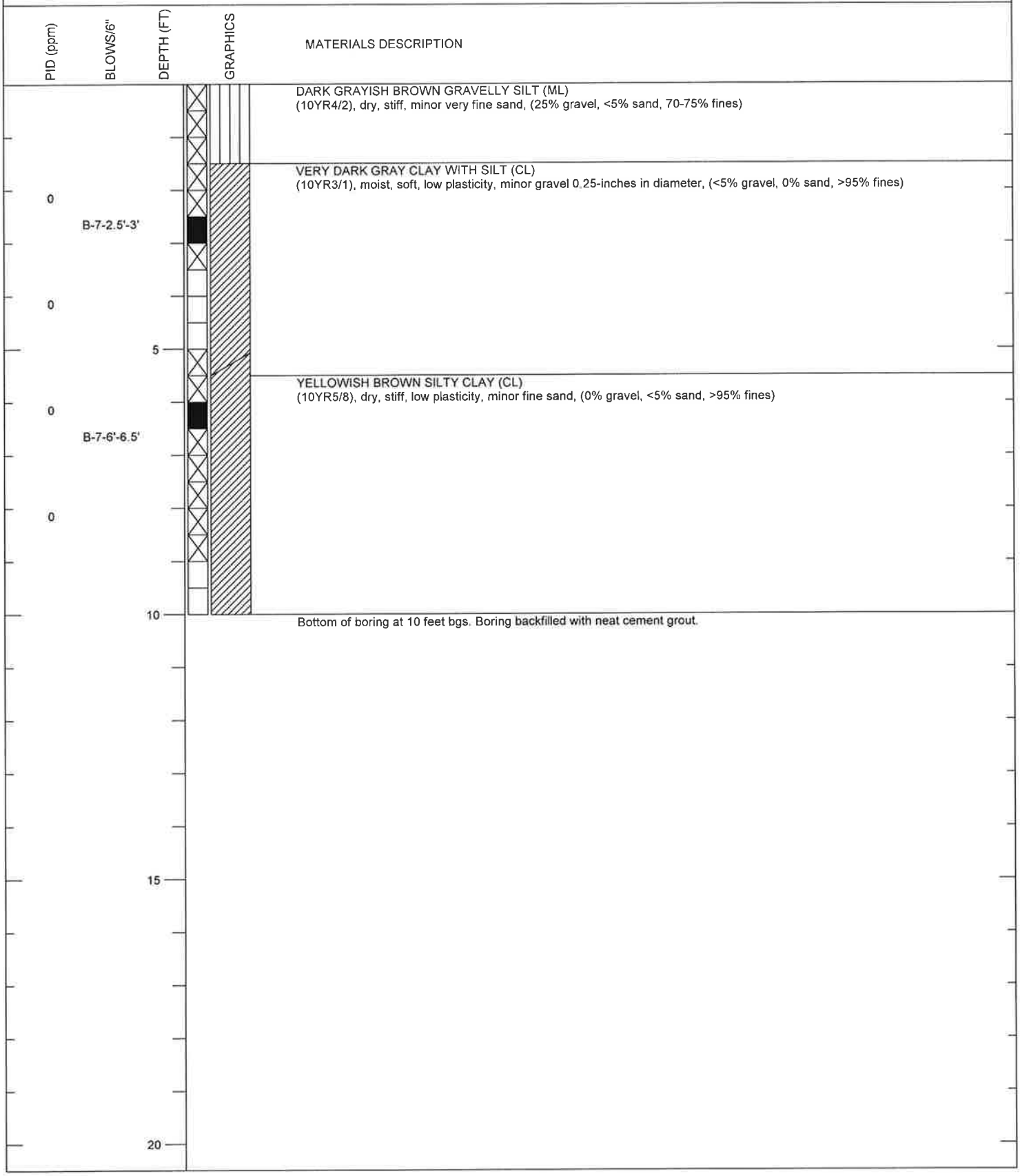
PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	15 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	6/27/08
DRILL RIG	Geoprobe 6600 (Direct Push)	DATE COMPLETED	6/27/08

PLATE

D-6

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-7



PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	10 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	6/27/08
DRILL RIG	Geoprobe 6600 (Direct Push)	DATE COMPLETED	6/27/08

PLATE

D-7

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-8

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, stiff, minor very fine sand, (25% gravel, <5% sand, 70-75% sand)
0				DARK GREENISH GRAY CLAY (CL) (5G4/1), moist, soft, (0% gravel, 0% sand, 100% fines)
	B-8-2.5'-3'			
	B-8-3'-3.5'			
0				
		5		
				YELLOWISH BROWN SILTY CLAY (CL) (10YR5/8), dry, stiff, low plasticity, minor fine sand, (0% gravel, <5% sand, >95% fines)
0	B-8-6'-6.5'			
0				
		10		Bottom of boring at 10 feet bgs. Boring backfilled with neat cement grout.
		15		
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	10 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	6/27/08
DRILL RIG	Geoprobe 6600 (Direct Push)	DATE COMPLETED	6/27/08

PLATE

D-8

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-9

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, soft, angular to subangular gravel, minor very fine sand, (25% gravel, <5% sand, 70-75% fines)
0				
				VERY DARK GRAY CLAY WITH SILT (CL) (10YR3/1), dry, soft, low plasticity, minor angular gravel up to 0.25 inches in diameter, (<5% gravel, 0% sand, >95% fines)
0				
		5		
				YELLOWISH BROWN SILTY CLAY (CL) (10YR5/8), dry, stiff, low plasticity, minor fine sand, (0% gravel, <5% gravel, >95% fines)
0				
		10		
0				▽ Becomes wet at 12 feet bgs.
				YELLOWISH BROWN SILTY CLAY WITH GRAVEL (CL) (10YR5/8), moist, soft, angular gravel up to 0.25-inches in diameter, minor very fine sand, (15% gravel, <5% sand, 80-85% fines)
		15		No soil was recovered from 15 to19 feet bgs.
				Bottom of boring at 19 feet bgs. Grab groundwater sample B-9-W collected from boring. Boring backfilled with neat cement grout.
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	19 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/31/08
DRILL RIG	Geoprobe 5410 (Direct Push)	DATE COMPLETED	7/31/08

PLATE

D-9

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-10

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, soft, angular to subangular gravel, minor very fine sand, (25% gravel, <5% sand, 70-75% fines)
0				VERY DARK GRAY CLAY WITH SILT (CL) (10YR3/1), dry, soft, low plasticity, minor angular gravel up to 0.25-inches in diameter, (<5% gravel, 0% sand, >95% fines)
0		5		
				YELLOWISH BROWN SILTY CLAY (CL) (10YR5/8), dry, stiff, low plasticity, minor fine sand, (0% gravel, <5% sand, >95% fines)
		10		▽ YELLOWISH BROWN GRAVELLY CLAY (CL) (10YR5/8), moist to wet, stiff, low plasticity, subrounded to angular gravel up to 0.25 inches in diameter, minor sand, (25% gravel, <5% sand, 70-75% fines)
		15		YELLOWISH BROWN SILTY CLAY WITH GRAVEL (CL) (10YR5/8), moist to wet, soft, angular gravel up to 0.25 inches in diameter, minor very fine sand, (15% gravel, <5% sand, 80-85% fines)
				Bottom of boring at 16 feet bgs. Grab groundwater sample B-10-W collected from boring. Boring backfilled with neat cement grout.
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/31/08
DRILL RIG	Geoprobe 5410 (Direct Push)	DATE COMPLETED	7/31/08

PLATE

D-10

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-11

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, stiff, angular to subrounded gravel, (25% gravel, <5% sand, 70-75% fines)
0				
				VERY DARK GRAY CLAY WITH SILT (CL) (10YR3/1), moist, soft, low plasticity, minor angular gravel up to 0.25-inches in diameter, (<5%, 0% sand, >95% fines)
		5		
0				
				YELLOWISH BROWN SILTY CLAY (CL) (10YR5/4), dry, stiff, low plasticity, minor very fine sand, (0% gravel, <5% sand, >95% fines)
0				
				YELLOWISH BROWN GRAVELLY CLAY (CL) (10YR5/8), moist, stiff, angular to subrounded gravel up to 0.25-inches in diameter, minor very fine sand, (25% gravel, <5% sand, 70-75% fines)
		10		
			▽	YELLOWISH BROWN CLAYEY SAND (SP) (10YR5/8), wet, loose, coarse sand, minor gravel, (<5% gravel, 60% sand, 35-40% fines)
				YELLOWISH BROWN CLAY (CL) (10YR5/8), moist, very stiff, low plasticity, (0% gravel, 0% sand, 100% fines)
		15		
				Bottom of boring at 16 feet bgs. Grab groundwater sample B-11-W collected from boring. Boring backfilled with neat cement grout.
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/31/08
DRILL RIG	Geoprobe 5410 (Direct Push)	DATE COMPLETED	7/31/08

PLATE

D-11

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-12

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				CONCRETE approximately 5-inches thick.
247				Crushed Brick (red)
	B-12-1'-1.5'			DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, soft, angular to subrounded gravel, (25% gravel, 0% sand, 75% fines)
120	B-12-2.5'-3'			VERY DARK GRAY CLAY WITH SILT (CL) (10YR3/1), moist, soft, trace angular gravel up to 0.25-inches in diameter, (<5% gravel, 0% sand, >95% fines)
		5		
0				
	B-12-6'-6.5'			
				Bottom of boring at 6.5 feet bgs. Boring backfilled with neat cement grout.
		10		
		15		
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	6.5 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/31/08
DRILL RIG	Hand Auger	DATE COMPLETED	7/31/08

PLATE

D-12

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-13

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, soft, angular to subrounded gravel, (25% gravel, 0% sand, 75% fines)
0				VERY DARK GRAY CLAY WITH SILT (CL) (10YR3/1), moist, soft, low plasticity, minor angular gravel, (<5% gravel, 0% sand, >95% fines)
	B-13-2.5'-3'			
0				
		5		YELLOWISH BROWN GRAVELLY CLAY (CL) (10YR5/8), moist, stiff, low plasticity, (0% sand, 25% gravel, 75% fines)
	B-13-6'-6.5'			
				Bottom of boring at 8 feet bgs. Boring backfilled with neat cement grout.
		10		
		15		
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	8 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/31/08
DRILL RIG	Geoprobe 5410 (Direct Push)	DATE COMPLETED	7/31/08

PLATE

D-13

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING B-14

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, soft, angular to subrounded gravel, (25% gravel, 0% sand, 75% fines)
5				VERY DARK GRAY CLAY WITH SILT (CL) (10YR3/1), moist, soft, low plasticity, minor angular gravel, (<5% gravel, 0% sand, >95% fines)
	B-14-2.5'-3'			
0				
		5		YELLOWISH BROWN GRAVELLY CLAY (CL) (10YR5/8), moist, stiff, low plasticity, (0% sand, 25% gravel, 75% fines)
0				
	B-14-6'-6.5'			
				Bottom of boring at 8 feet bgs. Boring backfilled with neat cement grout.
		10		
		15		
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	8 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/31/08
DRILL RIG	Geoprobe 5410 (Direct Push)	DATE COMPLETED	7/31/08

PLATE

D-14

PES Environmental, Inc.

Engineering & Environmental Services

LOG OF BORING B-15

PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				DARK GRAYISH BROWN GRAVELLY SILT (ML) (10YR4/2), dry, soft, angular to subrounded, gravel, (25% gravel, 0% sand, 75% fines)
7				
	B-15-2.5'-3'			
				VERY DARK CLAY WITH SILT (CL) (10YR3/1), dry to moist, soft, low plasticity, minor angular gravel, (<5% gravel, 0% sand, >95% fines)
		5		
	B-15-6'-6.5'			Becomes hard at 6 feet bgs.
				Bottom of boring at 8 feet bgs. Boring backfilled with neat cement grout.
		10		
		15		
		20		

PROJECT	4600-4700 Coliseum Way, Oakland	DIAMETER OF HOLE	2
LOCATION	4700 Coliseum Way, Oakland, California	REVIEWED BY	Gary Thomas
JOB NUMBER	1148.001.03.003	TOTAL DEPTH OF HOLE	8 feet
GEOLOGIST/ENGINEER	Miguel Rizo	DATE STARTED	7/31/08
DRILL RIG	Geoprobe 5410 (Direct Push)	DATE COMPLETED	7/31/08

PLATE

D-15

APPENDIX E

CURTIS & TOMPKINS LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 204298
ANALYTICAL REPORT

PES Environmental, Inc. 1682 Novato Boulevard Novato, CA 94947	Project : 1148.001.02.002 Location : 4700 Coliseum Way Site, Oakland Level : II

Sample ID	Lab ID
B-1-2.5'-3'	204298-001
B-1-7.5'-8'	204298-002
B-4-2.5'-3'	204298-003
B-4-6'-6.5'	204298-004
B-5-2.5'-3'	204298-005
B-5-6'-6.5'	204298-006
B-6-2.5'-3'	204298-007
B-6-6'-6.5'	204298-008
B-7-2.5'-3'	204298-009
B-7-6'-6.5'	204298-010
B-8-2.5'-3'	204298-011
B-8-6'-6.5'	204298-012
B-1-W	204298-013
B-2-W	204298-014
B-3-W	204298-015
B-4-W	204298-016
B-6-W	204298-017

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 signatures. 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: _____ Date: 07/08/2008
Project Manager

Signature: _____ Date: 07/11/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	204298
Client:	PES Environmental, Inc.
Project:	1148.001.02.002
Location:	4700 Coliseum Way Site, Oakland
Request Date:	06/27/08
Samples Received:	06/27/08

This hardcopy data package contains sample and QC results for twelve soil samples and five water samples, requested for the above referenced project on 06/27/08. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B) Water:
B-4-W (lab # 204298-016) had pH greater than 2. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:
No analytical problems were encountered.

Dissolved Gases by GC/FID (RSK-175):
No analytical problems were encountered.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

Total Organic Carbon (TOC) (SM5310C):
No analytical problems were encountered.

204298

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: Curtis & Tompkins
SAMPLERS: Miguel Rico
JOB NUMBER: 1148-051-02-002
NAME / LOCATION: 4700 Coliseum Way Site / Oakland, CA
PROJECT MANAGER: Kyle Flory
RECORDER: Miguel Rico

	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	ANALYSIS REQUESTED EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B plus MTBE	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)
1	08	06	27	0825	B-1-2.5'-3'			X		4								X					
2			27	0830	B-1-7.5'-8'			X		4								X					
3				0940	B-4-2.5'-3'			X		4								X					
4				0950	B-4-6'-6.5'			X		4								X					
5				1040	B-5-2.5'-3'			X		4								X					
6				1050	B-5-6'-6.5'			X		4								X					
7				1115	B-6-2.5'-3'			X		4								X					
8				1120	B-6-6'-6.5'			X		4								X					
9				1140	B-7-2.5'-3'			X		4								X					
10				1145	B-2-6'-6.5'			X		4								X					
11				1215	B-8-2.5'-3'			X		4								X					
12	↓	↓	↓	1220	B-8-6'-6.5'			X		4								X					

NOTES

Turn Around Time: Standard 5-day TAT
on completion

REVISED

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) [signature] (PES)	RECEIVED BY: (Signature) [signature] CET	DATE 4/27/08	TIME 2:[illegible]pm
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
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: Dropped off at laboratory			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

REVISED - rec'd via Fax 6/27/08 1554

PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

204298

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: Curtis & Tompkins

SAMPLERS: Miguel Rico

JOB NUMBER: 1148.001.02.002

NAME / LOCATION: 4700 Coliseum Way Site / Oakland, CA

PROJECT MANAGER: Kyle Flory

RECORDER: Miguel Rico

	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	ANALYSIS REQUESTED: EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B Plus MTBE & gasoline oxygenates	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)
1	08	06	27	0825	B-1-2.5'-3'			X			4							X					
2			27	0830	B-1-7.5'-8'			X			4							X					
3				0940	B-4-2.5'-3'			X			4							X					
4				0950	B-4-6'-6.5'			X			4							X					
5				1040	B-5-2.5'-3'			X			4							X					
6				1050	B-5-6'-6.5'			X			4							X					
7				1115	B-6-2.5'-3'			X			4												
8				1120	B-6-6'-6.5			X			4												
9				1140	B-7-2.5-3'			X			4												
10				1145	B-7-6-6.5'			X			4												
11				1215	B-8-2.5'-3'			X			4												
12				1220	B-8-6'-6.5'			X			4												

NOTES

Turn Around Time: Standard 5-day TAT
on ice, intact

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature) C&T	6/27/08	2:05pm
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
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: Dropped off at laboratory

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

PES Environmental, Inc.
Engineering & Environmental Services

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

CHAIN OF CUSTODY RECORD

GW 204298

LABORATORY: Curtis & Tompkins

SAMPLERS: Miguel Rizo

JOB NUMBER: 1148.001.02.002

NAME / LOCATION: 4700 Coliseum Way Site/Oakland, CA

PROJECT MANAGER: Kyle Flory

RECORDER: Miguel Rizo

	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	EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B plus MTBE & gasoline oxygenates	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes) *
13	08	06	27	0900	B-1-W		X			2		2		3				X					X
14				0920	B-2-W		X							3				X					
15				930	B-3-W		X							3				X					
16				1010	B-4-W		X							3				XX					
17				1130	B-6-W		X							3				X					

NOTES

Turn Around Time: Standard 5-day TAT

* MNA Parameters include the following:
- TOC by EPA Test Method 415.2;
- Nitrate/Nitrite by EPA Test Method 300.0;
- Sulfate by EPA Test Method 300.0;
- Chloride by EPA Test Method 300.0; and
- Methane, ethane, and ethene by EPA Test Method RSK-175.

bhr ice, intact

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) [signature] (PES)	RECEIVED BY: (Signature) C&T	DATE 6/27/08	TIME 2:05pm
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
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: Dropped off at laboratory

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 204298 Date Received 6/27/08 Number of coolers 1
Client PES Project 4700 Coliseum Way

Date Opened 6/27 By (print) KWellbrock (sign) KWellbrock
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. If required, was sufficient ice used? Samples should be < or = 6°C ..... YES NO N/A

Type of ice used: ☒ Wet ☐ Blue ☐ None Temp(°C)

☒ Samples Received on ice & cold without a temperature blank

☐ 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? 1530
9. Did all bottles arrive unbroken/unopened?..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO*
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples?..... YES (NO) N/A
16. Was the client contacted concerning this sample delivery?..... YES NO
If YES, Who was called? By Date:

COMMENTS

*15 – 1/3 B-2-W VOAs w/ Bubble; 1/3 B-3-W VOAs w/ Bubble;
2/3 B-4-W VOAs w/ Bubble
*12 – Water samples have ...-W on COC but sample IDs have ...-GW for B-1-W
↳ logged in per COC

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-1-W	Batch#:	139803
Lab ID:	204298-013	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	14	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	0.6	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	5.4	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	41	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	0.6	0.5
m,p-Xylenes	2.1	0.5
o-Xylene	0.8	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-1-W	Batch#:	139803
Lab ID:	204298-013	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-2-W	Batch#:	139803
Lab ID:	204298-014	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	1.0	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	3.1	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	1.5	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	3.5	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	0.5	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-2-W	Batch#:	139803
Lab ID:	204298-014	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-3-W	Batch#:	139803
Lab ID:	204298-015	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	19	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	2.5	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	11	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	7.8	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	3.9	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	1.1	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-3-W	Batch#:	139803
Lab ID:	204298-015	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-123
1,2-Dichloroethane-d4	105	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-4-W	Units:	ug/L
Lab ID:	204298-016	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	5.0	5.000	139803	06/30/08
tert-Butyl Alcohol (TBA)	ND	50	5.000	139803	06/30/08
Chloromethane	ND	5.0	5.000	139803	06/30/08
Isopropyl Ether (DIPE)	2.7	2.5	5.000	139803	06/30/08
Vinyl Chloride	ND	2.5	5.000	139803	06/30/08
Bromomethane	ND	5.0	5.000	139803	06/30/08
Ethyl tert-Butyl Ether (ETBE)	ND	2.5	5.000	139803	06/30/08
Chloroethane	ND	5.0	5.000	139803	06/30/08
Methyl tert-Amyl Ether (TAME)	ND	2.5	5.000	139803	06/30/08
Trichlorofluoromethane	ND	5.0	5.000	139803	06/30/08
Acetone	ND	50	5.000	139803	06/30/08
Freon 113	ND	10	5.000	139803	06/30/08
1,1-Dichloroethene	1,000	10	20.00	139850	07/01/08
Methylene Chloride	ND	50	5.000	139803	06/30/08
Carbon Disulfide	ND	2.5	5.000	139803	06/30/08
MTBE	ND	2.5	5.000	139803	06/30/08
trans-1,2-Dichloroethene	ND	2.5	5.000	139803	06/30/08
Vinyl Acetate	ND	50	5.000	139803	06/30/08
1,1-Dichloroethane	230	2.5	5.000	139803	06/30/08
2-Butanone	ND	50	5.000	139803	06/30/08
cis-1,2-Dichloroethene	ND	2.5	5.000	139803	06/30/08
2,2-Dichloropropane	ND	2.5	5.000	139803	06/30/08
Chloroform	ND	2.5	5.000	139803	06/30/08
Bromochloromethane	ND	2.5	5.000	139803	06/30/08
1,1,1-Trichloroethane	540	10	20.00	139850	07/01/08
1,1-Dichloropropene	ND	2.5	5.000	139803	06/30/08
Carbon Tetrachloride	ND	2.5	5.000	139803	06/30/08
1,2-Dichloroethane	20	2.5	5.000	139803	06/30/08
Benzene	ND	2.5	5.000	139803	06/30/08
Trichloroethene	9.0	2.5	5.000	139803	06/30/08
1,2-Dichloropropane	ND	2.5	5.000	139803	06/30/08
Bromodichloromethane	ND	2.5	5.000	139803	06/30/08
Dibromomethane	ND	2.5	5.000	139803	06/30/08
4-Methyl-2-Pentanone	ND	50	5.000	139803	06/30/08
cis-1,3-Dichloropropene	ND	2.5	5.000	139803	06/30/08
Toluene	2.5	2.5	5.000	139803	06/30/08
trans-1,3-Dichloropropene	ND	2.5	5.000	139803	06/30/08
1,1,2-Trichloroethane	3.5	2.5	5.000	139803	06/30/08
2-Hexanone	ND	50	5.000	139803	06/30/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-4-W	Units:	ug/L
Lab ID:	204298-016	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,3-Dichloropropane	ND	2.5	5.000	139803	06/30/08
Tetrachloroethene	ND	2.5	5.000	139803	06/30/08
Dibromochloromethane	ND	2.5	5.000	139803	06/30/08
1,2-Dibromoethane	ND	2.5	5.000	139803	06/30/08
Chlorobenzene	ND	2.5	5.000	139803	06/30/08
1,1,1,2-Tetrachloroethane	ND	2.5	5.000	139803	06/30/08
Ethylbenzene	ND	2.5	5.000	139803	06/30/08
m,p-Xylenes	ND	2.5	5.000	139803	06/30/08
o-Xylene	ND	2.5	5.000	139803	06/30/08
Styrene	ND	2.5	5.000	139803	06/30/08
Bromoform	ND	5.0	5.000	139803	06/30/08
Isopropylbenzene	ND	2.5	5.000	139803	06/30/08
1,1,2,2-Tetrachloroethane	ND	2.5	5.000	139803	06/30/08
1,2,3-Trichloropropane	ND	2.5	5.000	139803	06/30/08
Propylbenzene	ND	2.5	5.000	139803	06/30/08
Bromobenzene	ND	2.5	5.000	139803	06/30/08
1,3,5-Trimethylbenzene	ND	2.5	5.000	139803	06/30/08
2-Chlorotoluene	ND	2.5	5.000	139803	06/30/08
4-Chlorotoluene	ND	2.5	5.000	139803	06/30/08
tert-Butylbenzene	ND	2.5	5.000	139803	06/30/08
1,2,4-Trimethylbenzene	ND	2.5	5.000	139803	06/30/08
sec-Butylbenzene	ND	2.5	5.000	139803	06/30/08
para-Isopropyl Toluene	ND	2.5	5.000	139803	06/30/08
1,3-Dichlorobenzene	ND	2.5	5.000	139803	06/30/08
1,4-Dichlorobenzene	ND	2.5	5.000	139803	06/30/08
n-Butylbenzene	ND	2.5	5.000	139803	06/30/08
1,2-Dichlorobenzene	ND	2.5	5.000	139803	06/30/08
1,2-Dibromo-3-Chloropropane	ND	10	5.000	139803	06/30/08
1,2,4-Trichlorobenzene	ND	2.5	5.000	139803	06/30/08
Hexachlorobutadiene	ND	10	5.000	139803	06/30/08
Naphthalene	ND	10	5.000	139803	06/30/08
1,2,3-Trichlorobenzene	ND	2.5	5.000	139803	06/30/08

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	110	80-123	5.000	139803	06/30/08
1,2-Dichloroethane-d4	108	76-138	5.000	139803	06/30/08
Toluene-d8	97	80-120	5.000	139803	06/30/08
Bromofluorobenzene	106	80-120	5.000	139803	06/30/08

ND= Not Detected
RL= Reporting Limit

8.0

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-6-W	Batch#:	139803
Lab ID:	204298-017	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	1.7	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	0.9	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	1.8	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	7.1	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-6-W	Batch#:	139803
Lab ID:	204298-017	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-123
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC448666	Batch#:	139803
Matrix:	Water	Analyzed:	06/30/08
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC448666	Batch#:	139803
Matrix:	Water	Analyzed:	06/30/08
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-123
1,2-Dichloroethane-d4	117	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC448853	Batch#:	139850
Matrix:	Water	Analyzed:	07/01/08
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC448853	Batch#:	139850
Matrix:	Water	Analyzed:	07/01/08
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-123
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	139803
Units:	ug/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Type: BS Lab ID: QC448664

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	154.4	124	55-158
Isopropyl Ether (DIPE)	25.00	28.85	115	63-122
Ethyl tert-Butyl Ether (ETBE)	25.00	27.20	109	62-133
Methyl tert-Amyl Ether (TAME)	25.00	23.92	96	69-137
1,1-Dichloroethene	25.00	22.96	92	77-132
Benzene	25.00	23.46	94	80-120
Trichloroethene	25.00	21.76	87	80-120
Toluene	25.00	21.12	84	80-121
Chlorobenzene	25.00	22.77	91	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-123
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC448665

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	158.0	126	55-158	2	20
Isopropyl Ether (DIPE)	25.00	26.97	108	63-122	7	20
Ethyl tert-Butyl Ether (ETBE)	25.00	26.56	106	62-133	2	20
Methyl tert-Amyl Ether (TAME)	25.00	27.55	110	69-137	14	20
1,1-Dichloroethene	25.00	24.62	98	77-132	7	20
Benzene	25.00	27.21	109	80-120	15	20
Trichloroethene	25.00	25.85	103	80-120	17	20
Toluene	25.00	24.25	97	80-121	14	20
Chlorobenzene	25.00	24.63	99	80-120	8	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-123
1,2-Dichloroethane-d4	111	76-138
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	139850
Units:	ug/L	Analyzed:	07/01/08
Diln Fac:	1.000		

Type: BS Lab ID: QC448851

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	140.4	112	55-158
Isopropyl Ether (DIPE)	25.00	26.32	105	63-122
Ethyl tert-Butyl Ether (ETBE)	25.00	26.55	106	62-133
Methyl tert-Amyl Ether (TAME)	25.00	23.63	95	69-137
1,1-Dichloroethene	25.00	24.11	96	77-132
Benzene	25.00	24.40	98	80-120
Trichloroethene	25.00	23.87	95	80-120
Toluene	25.00	22.51	90	80-121
Chlorobenzene	25.00	23.73	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	94	80-120

Type: BSD Lab ID: QC448852

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	146.1	117	55-158	4	20
Isopropyl Ether (DIPE)	25.00	26.54	106	63-122	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	27.28	109	62-133	3	20
Methyl tert-Amyl Ether (TAME)	25.00	24.62	98	69-137	4	20
1,1-Dichloroethene	25.00	23.96	96	77-132	1	20
Benzene	25.00	25.19	101	80-120	3	20
Trichloroethene	25.00	24.75	99	80-120	4	20
Toluene	25.00	22.83	91	80-121	1	20
Chlorobenzene	25.00	25.12	100	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-123
1,2-Dichloroethane-d4	104	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	104	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-1-2.5'-3'	Diln Fac:	0.9381
Lab ID:	204298-001	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	9.4
tert-Butyl Alcohol (TBA)	ND	94
Chloromethane	ND	9.4
Isopropyl Ether (DIPE)	ND	4.7
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Ethyl tert-Butyl Ether (ETBE)	ND	4.7
Chloroethane	ND	9.4
Methyl tert-Amyl Ether (TAME)	ND	4.7
Trichlorofluoromethane	ND	4.7
Acetone	ND	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	9.4
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	9.4
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	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-1-2.5'-3'	Diln Fac:	0.9381
Lab ID:	204298-001	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
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	106	78-126
1,2-Dichloroethane-d4	88	76-137
Toluene-d8	94	80-120
Bromofluorobenzene	106	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-1-7.5'-8'	Diln Fac:	1.048
Lab ID:	204298-002	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.2
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.2
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.2
Trichlorofluoromethane	ND	5.2
Acetone	ND	21
Freon 113	ND	5.2
1,1-Dichloroethene	ND	5.2
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.2
MTBE	ND	5.2
trans-1,2-Dichloroethene	ND	5.2
Vinyl Acetate	ND	52
1,1-Dichloroethane	ND	5.2
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.2
2,2-Dichloropropane	ND	5.2
Chloroform	ND	5.2
Bromochloromethane	ND	5.2
1,1,1-Trichloroethane	ND	5.2
1,1-Dichloropropene	ND	5.2
Carbon Tetrachloride	ND	5.2
1,2-Dichloroethane	ND	5.2
Benzene	ND	5.2
Trichloroethene	ND	5.2
1,2-Dichloropropane	ND	5.2
Bromodichloromethane	ND	5.2
Dibromomethane	ND	5.2
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.2
Toluene	ND	5.2
trans-1,3-Dichloropropene	ND	5.2
1,1,2-Trichloroethane	ND	5.2
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.2
Tetrachloroethene	ND	5.2
Dibromochloromethane	ND	5.2
1,2-Dibromoethane	ND	5.2
Chlorobenzene	ND	5.2
1,1,1,2-Tetrachloroethane	ND	5.2
Ethylbenzene	ND	5.2
m,p-Xylenes	ND	5.2
o-Xylene	ND	5.2
Styrene	ND	5.2
Bromoform	ND	5.2
Isopropylbenzene	ND	5.2
1,1,2,2-Tetrachloroethane	ND	5.2
1,2,3-Trichloropropane	ND	5.2
Propylbenzene	ND	5.2

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-1-7.5'-8'	Diln Fac:	1.048
Lab ID:	204298-002	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Bromobenzene	ND	5.2
1,3,5-Trimethylbenzene	ND	5.2
2-Chlorotoluene	ND	5.2
4-Chlorotoluene	ND	5.2
tert-Butylbenzene	ND	5.2
1,2,4-Trimethylbenzene	ND	5.2
sec-Butylbenzene	ND	5.2
para-Isopropyl Toluene	ND	5.2
1,3-Dichlorobenzene	ND	5.2
1,4-Dichlorobenzene	ND	5.2
n-Butylbenzene	ND	5.2
1,2-Dichlorobenzene	ND	5.2
1,2-Dibromo-3-Chloropropane	ND	5.2
1,2,4-Trichlorobenzene	ND	5.2
Hexachlorobutadiene	ND	5.2
Naphthalene	ND	5.2
1,2,3-Trichlorobenzene	ND	5.2

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	82	76-137
Toluene-d8	92	80-120
Bromofluorobenzene	105	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-4-2.5'-3'	Diln Fac:	1.068
Lab ID:	204298-003	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	11
tert-Butyl Alcohol (TBA)	ND	110
Chloromethane	ND	11
Isopropyl Ether (DIPE)	ND	5.3
Vinyl Chloride	ND	11
Bromomethane	ND	11
Ethyl tert-Butyl Ether (ETBE)	ND	5.3
Chloroethane	ND	11
Methyl tert-Amyl Ether (TAME)	ND	5.3
Trichlorofluoromethane	ND	5.3
Acetone	ND	21
Freon 113	ND	5.3
1,1-Dichloroethene	ND	5.3
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.3
MTBE	ND	5.3
trans-1,2-Dichloroethene	ND	5.3
Vinyl Acetate	ND	53
1,1-Dichloroethane	44	5.3
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.3
2,2-Dichloropropane	ND	5.3
Chloroform	ND	5.3
Bromochloromethane	ND	5.3
1,1,1-Trichloroethane	5.9	5.3
1,1-Dichloropropene	ND	5.3
Carbon Tetrachloride	ND	5.3
1,2-Dichloroethane	ND	5.3
Benzene	ND	5.3
Trichloroethene	ND	5.3
1,2-Dichloropropane	ND	5.3
Bromodichloromethane	ND	5.3
Dibromomethane	ND	5.3
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.3
Toluene	ND	5.3
trans-1,3-Dichloropropene	ND	5.3
1,1,2-Trichloroethane	ND	5.3
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.3
Tetrachloroethene	ND	5.3
Dibromochloromethane	ND	5.3
1,2-Dibromoethane	ND	5.3
Chlorobenzene	ND	5.3
1,1,1,2-Tetrachloroethane	ND	5.3
Ethylbenzene	ND	5.3
m,p-Xylenes	ND	5.3
o-Xylene	ND	5.3
Styrene	ND	5.3
Bromoform	ND	5.3
Isopropylbenzene	ND	5.3
1,1,2,2-Tetrachloroethane	ND	5.3
1,2,3-Trichloropropane	ND	5.3
Propylbenzene	ND	5.3

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-4-2.5'-3'	Diln Fac:	1.068
Lab ID:	204298-003	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Bromobenzene	ND	5.3
1,3,5-Trimethylbenzene	ND	5.3
2-Chlorotoluene	ND	5.3
4-Chlorotoluene	ND	5.3
tert-Butylbenzene	ND	5.3
1,2,4-Trimethylbenzene	ND	5.3
sec-Butylbenzene	ND	5.3
para-Isopropyl Toluene	ND	5.3
1,3-Dichlorobenzene	ND	5.3
1,4-Dichlorobenzene	ND	5.3
n-Butylbenzene	ND	5.3
1,2-Dichlorobenzene	ND	5.3
1,2-Dibromo-3-Chloropropane	ND	5.3
1,2,4-Trichlorobenzene	ND	5.3
Hexachlorobutadiene	ND	5.3
Naphthalene	ND	5.3
1,2,3-Trichlorobenzene	ND	5.3

Surrogate	%REC	Limits
Dibromofluoromethane	105	78-126
1,2-Dichloroethane-d4	81	76-137
Toluene-d8	92	80-120
Bromofluorobenzene	105	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-4-6'-6.5'	Diln Fac:	0.9615
Lab ID:	204298-004	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	9.6
tert-Butyl Alcohol (TBA)	ND	96
Chloromethane	ND	9.6
Isopropyl Ether (DIPE)	ND	4.8
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Ethyl tert-Butyl Ether (ETBE)	ND	4.8
Chloroethane	ND	9.6
Methyl tert-Amyl Ether (TAME)	ND	4.8
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	4.9	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	69	4.8
2-Butanone	ND	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	14	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-4-6'-6.5'	Diln Fac:	0.9615
Lab ID:	204298-004	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	110	78-126
1,2-Dichloroethane-d4	86	76-137
Toluene-d8	91	80-120
Bromofluorobenzene	100	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-5-2.5'-3'	Diln Fac:	0.9416
Lab ID:	204298-005	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	9.4
tert-Butyl Alcohol (TBA)	ND	94
Chloromethane	ND	9.4
Isopropyl Ether (DIPE)	ND	4.7
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Ethyl tert-Butyl Ether (ETBE)	ND	4.7
Chloroethane	ND	9.4
Methyl tert-Amyl Ether (TAME)	ND	4.7
Trichlorofluoromethane	ND	4.7
Acetone	ND	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	9.4
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	9.4
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	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-5-2.5'-3'	Diln Fac:	0.9416
Lab ID:	204298-005	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
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	112	78-126
1,2-Dichloroethane-d4	93	76-137
Toluene-d8	92	80-120
Bromofluorobenzene	93	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-5-6'-6.5'	Diln Fac:	0.9785
Lab ID:	204298-006	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	9.8
tert-Butyl Alcohol (TBA)	ND	98
Chloromethane	ND	9.8
Isopropyl Ether (DIPE)	ND	4.9
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Ethyl tert-Butyl Ether (ETBE)	ND	4.9
Chloroethane	ND	9.8
Methyl tert-Amyl Ether (TAME)	ND	4.9
Trichlorofluoromethane	ND	4.9
Acetone	ND	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-5-6'-6.5'	Diln Fac:	0.9785
Lab ID:	204298-006	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	113	78-126
1,2-Dichloroethane-d4	86	76-137
Toluene-d8	92	80-120
Bromofluorobenzene	98	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-6-2.5'-3'	Diln Fac:	1.050
Lab ID:	204298-007	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	11
tert-Butyl Alcohol (TBA)	ND	110
Chloromethane	ND	11
Isopropyl Ether (DIPE)	ND	5.3
Vinyl Chloride	ND	11
Bromomethane	ND	11
Ethyl tert-Butyl Ether (ETBE)	ND	5.3
Chloroethane	ND	11
Methyl tert-Amyl Ether (TAME)	ND	5.3
Trichlorofluoromethane	ND	5.3
Acetone	ND	21
Freon 113	ND	5.3
1,1-Dichloroethene	ND	5.3
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.3
MTBE	ND	5.3
trans-1,2-Dichloroethene	ND	5.3
Vinyl Acetate	ND	53
1,1-Dichloroethane	ND	5.3
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.3
2,2-Dichloropropane	ND	5.3
Chloroform	ND	5.3
Bromochloromethane	ND	5.3
1,1,1-Trichloroethane	ND	5.3
1,1-Dichloropropene	ND	5.3
Carbon Tetrachloride	ND	5.3
1,2-Dichloroethane	ND	5.3
Benzene	ND	5.3
Trichloroethene	ND	5.3
1,2-Dichloropropane	ND	5.3
Bromodichloromethane	ND	5.3
Dibromomethane	ND	5.3
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.3
Toluene	ND	5.3
trans-1,3-Dichloropropene	ND	5.3
1,1,2-Trichloroethane	ND	5.3
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.3
Tetrachloroethene	ND	5.3
Dibromochloromethane	ND	5.3
1,2-Dibromoethane	ND	5.3
Chlorobenzene	ND	5.3
1,1,1,2-Tetrachloroethane	ND	5.3
Ethylbenzene	ND	5.3
m,p-Xylenes	ND	5.3
o-Xylene	ND	5.3
Styrene	ND	5.3
Bromoform	ND	5.3
Isopropylbenzene	ND	5.3
1,1,2,2-Tetrachloroethane	ND	5.3
1,2,3-Trichloropropane	ND	5.3
Propylbenzene	ND	5.3

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-6-2.5'-3'	Diln Fac:	1.050
Lab ID:	204298-007	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Bromobenzene	ND	5.3
1,3,5-Trimethylbenzene	ND	5.3
2-Chlorotoluene	ND	5.3
4-Chlorotoluene	ND	5.3
tert-Butylbenzene	ND	5.3
1,2,4-Trimethylbenzene	ND	5.3
sec-Butylbenzene	ND	5.3
para-Isopropyl Toluene	ND	5.3
1,3-Dichlorobenzene	ND	5.3
1,4-Dichlorobenzene	ND	5.3
n-Butylbenzene	ND	5.3
1,2-Dichlorobenzene	ND	5.3
1,2-Dibromo-3-Chloropropane	ND	5.3
1,2,4-Trichlorobenzene	ND	5.3
Hexachlorobutadiene	ND	5.3
Naphthalene	ND	5.3
1,2,3-Trichlorobenzene	ND	5.3

Surrogate	%REC	Limits
Dibromofluoromethane	112	78-126
1,2-Dichloroethane-d4	87	76-137
Toluene-d8	91	80-120
Bromofluorobenzene	105	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-6-6'-6.5'	Diln Fac:	1.006
Lab ID:	204298-008	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-6-6'-6.5'	Diln Fac:	1.006
Lab ID:	204298-008	Batch#:	139828
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	06/30/08

Analyte	Result	RL
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	113	78-126
1,2-Dichloroethane-d4	87	76-137
Toluene-d8	93	80-120
Bromofluorobenzene	98	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-7-2.5'-3'	Diln Fac:	1.114
Lab ID:	204298-009	Batch#:	139859
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	07/01/08

Analyte	Result	RL
Freon 12	ND	11
tert-Butyl Alcohol (TBA)	ND	110
Chloromethane	ND	11
Isopropyl Ether (DIPE)	ND	5.6
Vinyl Chloride	ND	11
Bromomethane	ND	11
Ethyl tert-Butyl Ether (ETBE)	ND	5.6
Chloroethane	ND	11
Methyl tert-Amyl Ether (TAME)	ND	5.6
Trichlorofluoromethane	ND	5.6
Acetone	ND	22
Freon 113	ND	5.6
1,1-Dichloroethene	ND	5.6
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.6
MTBE	ND	5.6
trans-1,2-Dichloroethene	ND	5.6
Vinyl Acetate	ND	56
1,1-Dichloroethane	ND	5.6
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.6
2,2-Dichloropropane	ND	5.6
Chloroform	ND	5.6
Bromochloromethane	ND	5.6
1,1,1-Trichloroethane	ND	5.6
1,1-Dichloropropene	ND	5.6
Carbon Tetrachloride	ND	5.6
1,2-Dichloroethane	ND	5.6
Benzene	ND	5.6
Trichloroethene	ND	5.6
1,2-Dichloropropane	ND	5.6
Bromodichloromethane	ND	5.6
Dibromomethane	ND	5.6
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.6
Toluene	ND	5.6
trans-1,3-Dichloropropene	ND	5.6
1,1,2-Trichloroethane	ND	5.6
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.6
Tetrachloroethene	ND	5.6
Dibromochloromethane	ND	5.6
1,2-Dibromoethane	ND	5.6
Chlorobenzene	ND	5.6
1,1,1,2-Tetrachloroethane	ND	5.6
Ethylbenzene	ND	5.6
m,p-Xylenes	ND	5.6
o-Xylene	ND	5.6
Styrene	ND	5.6
Bromoform	ND	5.6
Isopropylbenzene	ND	5.6
1,1,2,2-Tetrachloroethane	ND	5.6
1,2,3-Trichloropropane	ND	5.6
Propylbenzene	ND	5.6

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-7-2.5'-3'	Diln Fac:	1.114
Lab ID:	204298-009	Batch#:	139859
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	07/01/08

Analyte	Result	RL
Bromobenzene	ND	5.6
1,3,5-Trimethylbenzene	ND	5.6
2-Chlorotoluene	ND	5.6
4-Chlorotoluene	ND	5.6
tert-Butylbenzene	ND	5.6
1,2,4-Trimethylbenzene	ND	5.6
sec-Butylbenzene	ND	5.6
para-Isopropyl Toluene	ND	5.6
1,3-Dichlorobenzene	ND	5.6
1,4-Dichlorobenzene	ND	5.6
n-Butylbenzene	ND	5.6
1,2-Dichlorobenzene	ND	5.6
1,2-Dibromo-3-Chloropropane	ND	5.6
1,2,4-Trichlorobenzene	ND	5.6
Hexachlorobutadiene	ND	5.6
Naphthalene	ND	5.6
1,2,3-Trichlorobenzene	ND	5.6

Surrogate	%REC	Limits
Dibromofluoromethane	90	78-126
1,2-Dichloroethane-d4	100	76-137
Toluene-d8	98	80-120
Bromofluorobenzene	112	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-7-6'-6.5'	Diln Fac:	0.8850
Lab ID:	204298-010	Batch#:	139859
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	07/01/08

Analyte	Result	RL
Freon 12	ND	8.8
tert-Butyl Alcohol (TBA)	ND	88
Chloromethane	ND	8.8
Isopropyl Ether (DIPE)	ND	4.4
Vinyl Chloride	ND	8.8
Bromomethane	ND	8.8
Ethyl tert-Butyl Ether (ETBE)	ND	4.4
Chloroethane	ND	8.8
Methyl tert-Amyl Ether (TAME)	ND	4.4
Trichlorofluoromethane	ND	4.4
Acetone	ND	18
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.8
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	ND	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.8
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.8
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-7-6'-6.5'	Diln Fac:	0.8850
Lab ID:	204298-010	Batch#:	139859
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	07/01/08

Analyte	Result	RL
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	94	78-126
1,2-Dichloroethane-d4	101	76-137
Toluene-d8	102	80-120
Bromofluorobenzene	116	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-8-2.5'-3'	Diln Fac:	1.014
Lab ID:	204298-011	Batch#:	139859
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	07/01/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.1
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.1
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.1
Trichlorofluoromethane	ND	5.1
Acetone	ND	20
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.1
MTBE	ND	5.1
trans-1,2-Dichloroethene	ND	5.1
Vinyl Acetate	ND	51
1,1-Dichloroethane	ND	5.1
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.1
2,2-Dichloropropane	ND	5.1
Chloroform	ND	5.1
Bromochloromethane	ND	5.1
1,1,1-Trichloroethane	ND	5.1
1,1-Dichloropropene	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Benzene	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
Dibromomethane	ND	5.1
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.1
Toluene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.1
Tetrachloroethene	ND	5.1
Dibromochloromethane	ND	5.1
1,2-Dibromoethane	ND	5.1
Chlorobenzene	ND	5.1
1,1,1,2-Tetrachloroethane	ND	5.1
Ethylbenzene	ND	5.1
m,p-Xylenes	ND	5.1
o-Xylene	ND	5.1
Styrene	ND	5.1
Bromoform	ND	5.1
Isopropylbenzene	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,2,3-Trichloropropane	ND	5.1
Propylbenzene	ND	5.1

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-8-2.5'-3'	Diln Fac:	1.014
Lab ID:	204298-011	Batch#:	139859
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	07/01/08

Analyte	Result	RL
Bromobenzene	ND	5.1
1,3,5-Trimethylbenzene	ND	5.1
2-Chlorotoluene	ND	5.1
4-Chlorotoluene	ND	5.1
tert-Butylbenzene	ND	5.1
1,2,4-Trimethylbenzene	ND	5.1
sec-Butylbenzene	ND	5.1
para-Isopropyl Toluene	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
n-Butylbenzene	ND	5.1
1,2-Dichlorobenzene	ND	5.1
1,2-Dibromo-3-Chloropropane	ND	5.1
1,2,4-Trichlorobenzene	ND	5.1
Hexachlorobutadiene	ND	5.1
Naphthalene	ND	5.1
1,2,3-Trichlorobenzene	ND	5.1

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	101	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	117	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-8-6'-6.5'	Diln Fac:	0.9615
Lab ID:	204298-012	Batch#:	139859
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	07/01/08

Analyte	Result	RL
Freon 12	ND	9.6
tert-Butyl Alcohol (TBA)	ND	96
Chloromethane	ND	9.6
Isopropyl Ether (DIPE)	ND	4.8
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Ethyl tert-Butyl Ether (ETBE)	ND	4.8
Chloroethane	ND	9.6
Methyl tert-Amyl Ether (TAME)	ND	4.8
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Field ID:	B-8-6'-6.5'	Diln Fac:	0.9615
Lab ID:	204298-012	Batch#:	139859
Matrix:	Soil	Sampled:	06/27/08
Units:	ug/Kg	Received:	06/27/08
Basis:	as received	Analyzed:	07/01/08

Analyte	Result	RL
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-126
1,2-Dichloroethane-d4	100	76-137
Toluene-d8	98	80-120
Bromofluorobenzene	121	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC448779	Diln Fac:	1.000
Matrix:	Soil	Batch#:	139828
Units:	ug/Kg	Analyzed:	06/30/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC448779	Diln Fac:	1.000
Matrix:	Soil	Batch#:	139828
Units:	ug/Kg	Analyzed:	06/30/08

Analyte	Result	RL
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	102	78-126
1,2-Dichloroethane-d4	85	76-137
Toluene-d8	92	80-120
Bromofluorobenzene	105	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC448886	Diln Fac:	1.000
Matrix:	Soil	Batch#:	139859
Units:	ug/Kg	Analyzed:	07/01/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC448886	Diln Fac:	1.000
Matrix:	Soil	Batch#:	139859
Units:	ug/Kg	Analyzed:	07/01/08

Analyte	Result	RL
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	96	78-126
1,2-Dichloroethane-d4	97	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	110	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	139828
Basis:	as received	Analyzed:	06/30/08

Type: BS Lab ID: QC448780

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	110.2	88	58-135
Isopropyl Ether (DIPE)	25.00	25.03	100	62-120
Ethyl tert-Butyl Ether (ETBE)	25.00	23.23	93	65-121
Methyl tert-Amyl Ether (TAME)	25.00	24.84	99	71-122
1,1-Dichloroethene	25.00	24.98	100	71-133
Benzene	25.00	25.89	104	79-123
Trichloroethene	25.00	23.86	95	79-124
Toluene	25.00	25.28	101	80-123
Chlorobenzene	25.00	24.06	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	87	76-137
Toluene-d8	95	80-120
Bromofluorobenzene	89	80-121

Type: BSD Lab ID: QC448781

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	119.7	96	58-135	8	27
Isopropyl Ether (DIPE)	25.00	25.17	101	62-120	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	23.84	95	65-121	3	20
Methyl tert-Amyl Ether (TAME)	25.00	24.72	99	71-122	0	20
1,1-Dichloroethene	25.00	23.87	95	71-133	5	20
Benzene	25.00	25.60	102	79-123	1	20
Trichloroethene	25.00	23.76	95	79-124	0	20
Toluene	25.00	24.99	100	80-123	1	20
Chlorobenzene	25.00	24.56	98	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	89	76-137
Toluene-d8	94	80-120
Bromofluorobenzene	90	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.02.002	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	139859
Basis:	as received	Analyzed:	07/01/08

Type: BS Lab ID: QC448884

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	152.9	122	58-135
Isopropyl Ether (DIPE)	25.00	27.12	108	62-120
Ethyl tert-Butyl Ether (ETBE)	25.00	27.11	108	65-121
Methyl tert-Amyl Ether (TAME)	25.00	29.24	117	71-122
1,1-Dichloroethene	25.00	21.02	84	71-133
Benzene	25.00	23.77	95	79-123
Trichloroethene	25.00	23.96	96	79-124
Toluene	25.00	26.12	104	80-123
Chlorobenzene	25.00	24.01	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	78-126
1,2-Dichloroethane-d4	95	76-137
Toluene-d8	108	80-120
Bromofluorobenzene	102	80-121

Type: BSD Lab ID: QC448885

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	136.6	109	58-135	11	27
Isopropyl Ether (DIPE)	25.00	26.30	105	62-120	3	20
Ethyl tert-Butyl Ether (ETBE)	25.00	27.07	108	65-121	0	20
Methyl tert-Amyl Ether (TAME)	25.00	26.63	107	71-122	9	20
1,1-Dichloroethene	25.00	22.88	92	71-133	8	20
Benzene	25.00	24.29	97	79-123	2	20
Trichloroethene	25.00	25.62	102	79-124	7	20
Toluene	25.00	25.54	102	80-123	2	20
Chlorobenzene	25.00	24.06	96	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	94	78-126
1,2-Dichloroethane-d4	99	76-137
Toluene-d8	102	80-120
Bromofluorobenzene	106	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Dissolved Gases

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1148.001.02.002	Analysis:	RSK-175
Field ID:	B-1-W	Batch#:	139832
Matrix:	Water	Sampled:	06/27/08
Units:	mg/L	Received:	06/27/08
Diln Fac:	1.000	Analyzed:	06/30/08

Type: SAMPLE Lab ID: 204298-013

Analyte	Result	RL
Methane	0.036	0.005
Ethene	ND	0.005
Ethane	ND	0.005

Type: BLANK Lab ID: QC448793

Analyte	Result	RL
Methane	ND	0.005
Ethene	ND	0.005
Ethane	ND	0.005

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Dissolved Gases

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1148.001.02.002	Analysis:	RSK-175
Matrix:	Water	Batch#:	139832
Units:	mg/L	Analyzed:	06/30/08
Diln Fac:	1.000		

Type: BS Lab ID: QC448791

Analyte	Spiked	Result	%REC	Limits
Methane	0.6544	0.6059	93	80-120
Ethene	1.145	1.156	101	80-120
Ethane	1.227	1.234	101	80-120

Type: BSD Lab ID: QC448792

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Methane	0.6544	0.5691	87	80-120	6	20
Ethene	1.145	1.088	95	80-120	6	20
Ethane	1.227	1.162	95	80-120	6	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1148.001.02.002	Analysis:	EPA 300.0
Field ID:	B-1-W	Batch#:	139745
Matrix:	Water	Sampled:	06/27/08 09:00
Units:	mg/L	Received:	06/27/08

Type: SAMPLE Lab ID: 204298-013

Analyte	Result	RL	Diln Fac	Analyzed
Chloride	35	0.40	2.000	06/28/08 01:37
Nitrogen, Nitrite	ND	0.05	1.000	06/27/08 16:35
Nitrogen, Nitrate	0.09	0.05	1.000	06/27/08 16:35
Sulfate	73	1.0	2.000	06/28/08 01:37

Type: BLANK Diln Fac: 1.000
Lab ID: QC448446 Analyzed: 06/27/08 08:49

Analyte	Result	RL
Chloride	ND	0.20
Nitrogen, Nitrite	ND	0.05
Nitrogen, Nitrate	ND	0.05
Sulfate	ND	0.50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1148.001.02.002	Analysis:	EPA 300.0
Matrix:	Water	Diln Fac:	1.000
Units:	mg/L	Batch#:	139745

Type: BS Analyzed: 06/27/08 09:06
Lab ID: QC448447

Analyte	Spiked	Result	%REC	Limits
Chloride	4.000	3.725	93	80-120
Nitrogen, Nitrite	1.000	0.9127	91	80-120
Nitrogen, Nitrate	1.000	0.9359	94	80-120
Sulfate	10.00	9.354	94	80-120

Type: BSD Analyzed: 06/27/08 09:23
Lab ID: QC448448

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Chloride	4.000	3.674	92	80-120	1	20
Nitrogen, Nitrite	1.000	0.8714	87	80-120	5	20
Nitrogen, Nitrate	1.000	0.9124	91	80-120	3	20
Sulfate	10.00	9.293	93	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1148.001.02.002	Analysis:	EPA 300.0
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.020
MSS Lab ID:	204278-001	Batch#:	139745
Matrix:	Water	Sampled:	06/26/08 14:52
Units:	mg/L	Received:	06/26/08

Type: MS Analyzed: 06/27/08 10:29
Lab ID: QC448449

Analyte	MSS Result	Spiked	Result	%REC	Limits
Chloride	3.157	2.040	5.009	91	80-120
Nitrogen, Nitrite	<0.01089	0.5100	0.4856	95	80-120
Nitrogen, Nitrate	1.156	0.5100	1.630	93	80-120
Sulfate	<0.08799	5.100	4.833	95	80-120

Type: MSD Analyzed: 06/27/08 10:46
Lab ID: QC448450

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Chloride	2.040	4.966	89	80-120	1	20
Nitrogen, Nitrite	0.5100	0.4631	91	80-120	5	20
Nitrogen, Nitrate	0.5100	1.628	93	80-120	0	20
Sulfate	5.100	4.779	94	80-120	1	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1148.001.02.002	Analysis:	SM5310C
Analyte:	Total Organic Carbon	Batch#:	139965
Field ID:	B-1-W	Sampled:	06/27/08
Matrix:	Water	Received:	06/27/08
Units:	mg/L	Analyzed:	07/03/08

Type	Lab ID	Result	RL	Diln Fac
SAMPLE	204298-013	24	1.0	2.000
BLANK	QC449341	ND	0.50	1.000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	204298	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	1148.001.02.002	Analysis:	SM5310C
Analyte:	Total Organic Carbon	Batch#:	139965
Field ID:	B-1-W	Sampled:	06/27/08
MSS Lab ID:	204298-013	Received:	06/27/08
Matrix:	Water	Analyzed:	07/03/08
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Dil'n Fac
LCS	QC449342		10.00	10.03	100	90-110			1.000
MS	QC449343	24.07	10.00	33.44	94	68-121			2.000
MSD	QC449344		10.00	33.14	91	68-121	1	20	2.000

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 205011
ANALYTICAL REPORT

PES Environmental, Inc.	Project : 1148.001.03.002
1682 Novato Boulevard	Location : 4700 Coliseum Way Site, Oakland
Novato, CA 94947	Level : II

Sample ID	Lab ID
B-13-2.5-3	205011-001
B-13-6-6.5	205011-002
B-14-2.5-3	205011-003
B-14-6-6.5	205011-004
B-15-2.5-3	205011-005
B-15-6-6.5	205011-006
B-12-2.5-3	205011-007
B-12-6-6.5	205011-008
B-12-1-1.5	205011-009

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 signatures. 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: _____ Date: 08/15/2008
Project Manager

Signature: _____ Date: 08/26/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	205011
Client:	PES Environmental, Inc.
Project:	1148.001.03.002
Location:	4700 Coliseum Way Site, Oakland
Request Date:	07/31/08
Samples Received:	07/31/08

This hardcopy data package contains sample and QC results for nine soil samples, requested for the above referenced project on 07/31/08. The samples were received on ice and intact, directly from the field.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes were not reported for batch 141226 because the parent sample was reanalyzed in another batch. B-12-2.5-3 (lab # 205011-007) was diluted due to high levels of target analytes. B-12-1-1.5 (lab # 205011-009) was diluted due to high levels of hydrocarbons. B-13-6-6.5 (lab # 205011-002) was not diluted; the low sample weight is due to 5035 packaging. Matrix spikes were not reported for batch 141029, batch 141065, and batch 141124, due to insufficient sample volume. No other analytical problems were encountered.

PES Environmental, Inc.
Engineering & Environmental Services

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

CHAIN OF CUSTODY RECORD

LABORATORY: Curtis and Tompkins
JOB NUMBER: 1146.001.03.002
NAME / LOCATION: 4700 Coliseum Way Site / Oakland, CA
PROJECT MANAGER: Kyle Flory

SAMPLERS: Miguel Rico
RECORDER: Miguel Rico

205011

gasoline oxygenates

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	EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B Plus MTBE ONLY	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)
1 08	07	31	1140	B-13-2.5'-3'			X			4				2.5			X					
2 08	07	31	1150	B-13-6'-6.5'			X			4				6			X					
3 08	07	31	1210	B-14-2.5'-3'			X			4				2.5			X					
4 08	07	31	1215	B-14-6'-6.5'			X			4				6			X					
5 08	07	31	1230	B-15-2.5'-3'			X			4				2.5			X					
6 08	07	31	1240	B-15-6'-6.5'			X			4				6			X					
7 08	07	31	1310	B-12-2.5'-3'			X			4				2.5			X					
8 08	07	31	1325	B-12-6'-6.5'			X			4				6.5			X					
9 08	07	31	1110	B-12-1'-1.5'																		

NOTES

Turn Around Time: Standard 5-day TAT

Please send Copy of Chain of Custody to Kyle Flory & Gary Thomas at Kflory@pesenv.com & gthomas@pesenv.com.

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE: 7/31/08 TIME: 2:32 pm
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	DATE: TIME:
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: Dropped off at laboratory on ice, intact

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 205011 Date Received 7/31/08 Number of coolers 1
Client PES Project 4700 Coliseum Way Site

Date Opened 7/31 By (print) KWellbrock (sign) KWellbrock
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:

Type of ice used: ~~☒~~ Wet ☐ Blue/Gel ☐ None Temp(°C) 13.8

☐ Samples Received on ice & cold without a temperature blank

~~☒~~ 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? 1447

9. Did all bottles arrive unbroken/unopened?..... (YES) NO

10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO

11. Are sample labels present, in good condition and complete? ..... (YES) NO

12. Do the sample labels agree with custody papers? ..... (YES) NO

13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO

14. Are the samples appropriately preserved? ..... (YES) NO N/A

15. Are bubbles > 6mm absent in VOA samples?..... (YES) NO ~~N/A~~ klw 7/31/08

16. Was the client contacted concerning this sample delivery?..... YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

_____

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-13-2.5-3	Diln Fac:	1.018
Lab ID:	205011-001	Batch#:	141029
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/04/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.1
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.1
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.1
Trichlorofluoromethane	ND	5.1
Acetone	ND	20
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.1
MTBE	ND	5.1
trans-1,2-Dichloroethene	ND	5.1
Vinyl Acetate	ND	51
1,1-Dichloroethane	ND	5.1
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.1
2,2-Dichloropropane	ND	5.1
Chloroform	ND	5.1
Bromochloromethane	ND	5.1
1,1,1-Trichloroethane	ND	5.1
1,1-Dichloropropene	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Benzene	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
Dibromomethane	ND	5.1
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.1
Toluene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.1
Tetrachloroethene	ND	5.1
Dibromochloromethane	ND	5.1
1,2-Dibromoethane	ND	5.1
Chlorobenzene	ND	5.1
1,1,1,2-Tetrachloroethane	ND	5.1
Ethylbenzene	ND	5.1
m,p-Xylenes	ND	5.1
o-Xylene	ND	5.1
Styrene	ND	5.1
Bromoform	ND	5.1
Isopropylbenzene	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,2,3-Trichloropropane	ND	5.1
Propylbenzene	ND	5.1

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-13-2.5-3	Diln Fac:	1.018
Lab ID:	205011-001	Batch#:	141029
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/04/08

Analyte	Result	RL
Bromobenzene	ND	5.1
1,3,5-Trimethylbenzene	ND	5.1
2-Chlorotoluene	ND	5.1
4-Chlorotoluene	ND	5.1
tert-Butylbenzene	ND	5.1
1,2,4-Trimethylbenzene	ND	5.1
sec-Butylbenzene	ND	5.1
para-Isopropyl Toluene	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
n-Butylbenzene	ND	5.1
1,2-Dichlorobenzene	ND	5.1
1,2-Dibromo-3-Chloropropane	ND	5.1
1,2,4-Trichlorobenzene	ND	5.1
Hexachlorobutadiene	ND	5.1
Naphthalene	ND	5.1
1,2,3-Trichlorobenzene	ND	5.1

Surrogate	%REC	Limits
Dibromofluoromethane	97	78-126
1,2-Dichloroethane-d4	106	76-137
Toluene-d8	104	80-120
Bromofluorobenzene	106	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-13-6-6.5	Diln Fac:	1.235
Lab ID:	205011-002	Batch#:	141065
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/05/08

Analyte	Result	RL
Freon 12	ND	12
tert-Butyl Alcohol (TBA)	ND	120
Chloromethane	ND	12
Isopropyl Ether (DIPE)	ND	6.2
Vinyl Chloride	ND	12
Bromomethane	ND	12
Ethyl tert-Butyl Ether (ETBE)	ND	6.2
Chloroethane	ND	12
Methyl tert-Amyl Ether (TAME)	ND	6.2
Trichlorofluoromethane	ND	6.2
Acetone	ND	25
Freon 113	ND	6.2
1,1-Dichloroethene	ND	6.2
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.2
MTBE	ND	6.2
trans-1,2-Dichloroethene	ND	6.2
Vinyl Acetate	ND	62
1,1-Dichloroethane	ND	6.2
2-Butanone	ND	12
cis-1,2-Dichloroethene	ND	6.2
2,2-Dichloropropane	ND	6.2
Chloroform	ND	6.2
Bromochloromethane	ND	6.2
1,1,1-Trichloroethane	ND	6.2
1,1-Dichloropropene	ND	6.2
Carbon Tetrachloride	ND	6.2
1,2-Dichloroethane	ND	6.2
Benzene	ND	6.2
Trichloroethene	ND	6.2
1,2-Dichloropropane	ND	6.2
Bromodichloromethane	ND	6.2
Dibromomethane	ND	6.2
4-Methyl-2-Pentanone	ND	12
cis-1,3-Dichloropropene	ND	6.2
Toluene	ND	6.2
trans-1,3-Dichloropropene	ND	6.2
1,1,2-Trichloroethane	ND	6.2
2-Hexanone	ND	12
1,3-Dichloropropane	ND	6.2
Tetrachloroethene	ND	6.2
Dibromochloromethane	ND	6.2
1,2-Dibromoethane	ND	6.2
Chlorobenzene	ND	6.2
1,1,1,2-Tetrachloroethane	ND	6.2
Ethylbenzene	ND	6.2
m,p-Xylenes	ND	6.2
o-Xylene	ND	6.2
Styrene	ND	6.2
Bromoform	ND	6.2
Isopropylbenzene	ND	6.2
1,1,2,2-Tetrachloroethane	ND	6.2
1,2,3-Trichloropropane	ND	6.2
Propylbenzene	ND	6.2

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-13-6-6.5	Diln Fac:	1.235
Lab ID:	205011-002	Batch#:	141065
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/05/08

Analyte	Result	RL
Bromobenzene	ND	6.2
1,3,5-Trimethylbenzene	ND	6.2
2-Chlorotoluene	ND	6.2
4-Chlorotoluene	ND	6.2
tert-Butylbenzene	ND	6.2
1,2,4-Trimethylbenzene	ND	6.2
sec-Butylbenzene	ND	6.2
para-Isopropyl Toluene	ND	6.2
1,3-Dichlorobenzene	ND	6.2
1,4-Dichlorobenzene	ND	6.2
n-Butylbenzene	ND	6.2
1,2-Dichlorobenzene	ND	6.2
1,2-Dibromo-3-Chloropropane	ND	6.2
1,2,4-Trichlorobenzene	ND	6.2
Hexachlorobutadiene	ND	6.2
Naphthalene	ND	6.2
1,2,3-Trichlorobenzene	ND	6.2

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	101	76-137
Toluene-d8	96	80-120
Bromofluorobenzene	102	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-14-2.5-3	Basis:	as received
Lab ID:	205011-003	Sampled:	07/31/08
Matrix:	Soil	Received:	07/31/08
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	15	1.506	141065	08/05/08
tert-Butyl Alcohol (TBA)	ND	150	1.506	141065	08/05/08
Chloromethane	ND	15	1.506	141065	08/05/08
Isopropyl Ether (DIPE)	ND	7.5	1.506	141065	08/05/08
Vinyl Chloride	ND	15	1.506	141065	08/05/08
Bromomethane	ND	15	1.506	141065	08/05/08
Ethyl tert-Butyl Ether (ETBE)	ND	7.5	1.506	141065	08/05/08
Chloroethane	ND	15	1.506	141065	08/05/08
Methyl tert-Amyl Ether (TAME)	ND	7.5	1.506	141065	08/05/08
Trichlorofluoromethane	ND	7.5	1.506	141065	08/05/08
Acetone	ND	30	1.506	141065	08/05/08
Freon 113	ND	7.5	1.506	141065	08/05/08
1,1-Dichloroethene	ND	7.5	1.506	141065	08/05/08
Methylene Chloride	ND	30	1.506	141065	08/05/08
Carbon Disulfide	ND	7.5	1.506	141065	08/05/08
MTBE	ND	7.5	1.506	141065	08/05/08
trans-1,2-Dichloroethene	ND	7.5	1.506	141065	08/05/08
Vinyl Acetate	ND	75	1.506	141065	08/05/08
1,1-Dichloroethane	22	7.5	1.506	141065	08/05/08
2-Butanone	ND	15	1.506	141065	08/05/08
cis-1,2-Dichloroethene	ND	7.5	1.506	141065	08/05/08
2,2-Dichloropropane	ND	7.5	1.506	141065	08/05/08
Chloroform	ND	7.5	1.506	141065	08/05/08
Bromochloromethane	ND	7.5	1.506	141065	08/05/08
1,1,1-Trichloroethane	460	130	25.00	141124	08/06/08
1,1-Dichloropropene	ND	7.5	1.506	141065	08/05/08
Carbon Tetrachloride	ND	7.5	1.506	141065	08/05/08
1,2-Dichloroethane	ND	7.5	1.506	141065	08/05/08
Benzene	ND	7.5	1.506	141065	08/05/08
Trichloroethene	ND	7.5	1.506	141065	08/05/08
1,2-Dichloropropane	ND	7.5	1.506	141065	08/05/08
Bromodichloromethane	ND	7.5	1.506	141065	08/05/08
Dibromomethane	ND	7.5	1.506	141065	08/05/08
4-Methyl-2-Pentanone	ND	15	1.506	141065	08/05/08
cis-1,3-Dichloropropene	ND	7.5	1.506	141065	08/05/08
Toluene	ND	7.5	1.506	141065	08/05/08
trans-1,3-Dichloropropene	ND	7.5	1.506	141065	08/05/08
1,1,2-Trichloroethane	ND	7.5	1.506	141065	08/05/08
2-Hexanone	ND	15	1.506	141065	08/05/08
1,3-Dichloropropane	ND	7.5	1.506	141065	08/05/08
Tetrachloroethene	ND	7.5	1.506	141065	08/05/08
Dibromochloromethane	ND	7.5	1.506	141065	08/05/08
1,2-Dibromoethane	ND	7.5	1.506	141065	08/05/08
Chlorobenzene	ND	7.5	1.506	141065	08/05/08
1,1,1,2-Tetrachloroethane	ND	7.5	1.506	141065	08/05/08
Ethylbenzene	ND	7.5	1.506	141065	08/05/08
m,p-Xylenes	ND	7.5	1.506	141065	08/05/08
o-Xylene	ND	7.5	1.506	141065	08/05/08
Styrene	ND	7.5	1.506	141065	08/05/08
Bromoform	ND	7.5	1.506	141065	08/05/08
Isopropylbenzene	ND	7.5	1.506	141065	08/05/08
1,1,2,2-Tetrachloroethane	ND	7.5	1.506	141065	08/05/08
1,2,3-Trichloropropane	ND	7.5	1.506	141065	08/05/08
Propylbenzene	ND	7.5	1.506	141065	08/05/08
Bromobenzene	ND	7.5	1.506	141065	08/05/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-14-2.5-3	Basis:	as received
Lab ID:	205011-003	Sampled:	07/31/08
Matrix:	Soil	Received:	07/31/08
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,3,5-Trimethylbenzene	ND	7.5	1.506	141065	08/05/08
2-Chlorotoluene	ND	7.5	1.506	141065	08/05/08
4-Chlorotoluene	ND	7.5	1.506	141065	08/05/08
tert-Butylbenzene	ND	7.5	1.506	141065	08/05/08
1,2,4-Trimethylbenzene	ND	7.5	1.506	141065	08/05/08
sec-Butylbenzene	ND	7.5	1.506	141065	08/05/08
para-Isopropyl Toluene	ND	7.5	1.506	141065	08/05/08
1,3-Dichlorobenzene	ND	7.5	1.506	141065	08/05/08
1,4-Dichlorobenzene	ND	7.5	1.506	141065	08/05/08
n-Butylbenzene	ND	7.5	1.506	141065	08/05/08
1,2-Dichlorobenzene	ND	7.5	1.506	141065	08/05/08
1,2-Dibromo-3-Chloropropane	ND	7.5	1.506	141065	08/05/08
1,2,4-Trichlorobenzene	ND	7.5	1.506	141065	08/05/08
Hexachlorobutadiene	ND	7.5	1.506	141065	08/05/08
Naphthalene	ND	7.5	1.506	141065	08/05/08
1,2,3-Trichlorobenzene	ND	7.5	1.506	141065	08/05/08

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	101	78-126	1.506	141065	08/05/08
1,2-Dichloroethane-d4	107	76-137	1.506	141065	08/05/08
Toluene-d8	96	80-120	1.506	141065	08/05/08
Bromofluorobenzene	106	80-121	1.506	141065	08/05/08
Trifluorotoluene (MeOH)	87	52-145	25.00	141124	08/06/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-14-6-6.5	Diln Fac:	1.111
Lab ID:	205011-004	Batch#:	141065
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/05/08

Analyte	Result	RL
Freon 12	ND	11
tert-Butyl Alcohol (TBA)	ND	110
Chloromethane	ND	11
Isopropyl Ether (DIPE)	ND	5.6
Vinyl Chloride	ND	11
Bromomethane	ND	11
Ethyl tert-Butyl Ether (ETBE)	ND	5.6
Chloroethane	ND	11
Methyl tert-Amyl Ether (TAME)	ND	5.6
Trichlorofluoromethane	ND	5.6
Acetone	ND	22
Freon 113	ND	5.6
1,1-Dichloroethene	ND	5.6
Methylene Chloride	ND	22
Carbon Disulfide	ND	5.6
MTBE	ND	5.6
trans-1,2-Dichloroethene	ND	5.6
Vinyl Acetate	ND	56
1,1-Dichloroethane	26	5.6
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.6
2,2-Dichloropropane	ND	5.6
Chloroform	ND	5.6
Bromochloromethane	ND	5.6
1,1,1-Trichloroethane	84	5.6
1,1-Dichloropropene	ND	5.6
Carbon Tetrachloride	ND	5.6
1,2-Dichloroethane	ND	5.6
Benzene	ND	5.6
Trichloroethene	ND	5.6
1,2-Dichloropropane	ND	5.6
Bromodichloromethane	ND	5.6
Dibromomethane	ND	5.6
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.6
Toluene	ND	5.6
trans-1,3-Dichloropropene	ND	5.6
1,1,2-Trichloroethane	ND	5.6
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.6
Tetrachloroethene	ND	5.6
Dibromochloromethane	ND	5.6
1,2-Dibromoethane	ND	5.6
Chlorobenzene	ND	5.6
1,1,1,2-Tetrachloroethane	ND	5.6
Ethylbenzene	ND	5.6
m,p-Xylenes	ND	5.6
o-Xylene	ND	5.6
Styrene	ND	5.6
Bromoform	ND	5.6
Isopropylbenzene	ND	5.6
1,1,2,2-Tetrachloroethane	ND	5.6
1,2,3-Trichloropropane	ND	5.6
Propylbenzene	ND	5.6

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-14-6-6.5	Diln Fac:	1.111
Lab ID:	205011-004	Batch#:	141065
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/05/08

Analyte	Result	RL
Bromobenzene	ND	5.6
1,3,5-Trimethylbenzene	ND	5.6
2-Chlorotoluene	ND	5.6
4-Chlorotoluene	ND	5.6
tert-Butylbenzene	ND	5.6
1,2,4-Trimethylbenzene	ND	5.6
sec-Butylbenzene	ND	5.6
para-Isopropyl Toluene	ND	5.6
1,3-Dichlorobenzene	ND	5.6
1,4-Dichlorobenzene	ND	5.6
n-Butylbenzene	ND	5.6
1,2-Dichlorobenzene	ND	5.6
1,2-Dibromo-3-Chloropropane	ND	5.6
1,2,4-Trichlorobenzene	ND	5.6
Hexachlorobutadiene	ND	5.6
Naphthalene	ND	5.6
1,2,3-Trichlorobenzene	ND	5.6

Surrogate	%REC	Limits
Dibromofluoromethane	102	78-126
1,2-Dichloroethane-d4	104	76-137
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-15-2.5-3	Basis:	as received
Lab ID:	205011-005	Sampled:	07/31/08
Matrix:	Soil	Received:	07/31/08
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	9.3	0.9328	141065	08/05/08
tert-Butyl Alcohol (TBA)	ND	93	0.9328	141065	08/05/08
Chloromethane	ND	9.3	0.9328	141065	08/05/08
Isopropyl Ether (DIPE)	ND	4.7	0.9328	141065	08/05/08
Vinyl Chloride	ND	9.3	0.9328	141065	08/05/08
Bromomethane	ND	9.3	0.9328	141065	08/05/08
Ethyl tert-Butyl Ether (ETBE)	ND	4.7	0.9328	141065	08/05/08
Chloroethane	ND	9.3	0.9328	141065	08/05/08
Methyl tert-Amyl Ether (TAME)	ND	4.7	0.9328	141065	08/05/08
Trichlorofluoromethane	ND	4.7	0.9328	141065	08/05/08
Acetone	ND	19	0.9328	141065	08/05/08
Freon 113	ND	4.7	0.9328	141065	08/05/08
1,1-Dichloroethene	15	4.7	0.9328	141065	08/05/08
Methylene Chloride	ND	19	0.9328	141065	08/05/08
Carbon Disulfide	ND	4.7	0.9328	141065	08/05/08
MTBE	ND	4.7	0.9328	141065	08/05/08
trans-1,2-Dichloroethene	ND	4.7	0.9328	141065	08/05/08
Vinyl Acetate	ND	47	0.9328	141065	08/05/08
1,1-Dichloroethane	130	130	25.00	141124	08/06/08
2-Butanone	ND	9.3	0.9328	141065	08/05/08
cis-1,2-Dichloroethene	ND	4.7	0.9328	141065	08/05/08
2,2-Dichloropropane	ND	4.7	0.9328	141065	08/05/08
Chloroform	ND	4.7	0.9328	141065	08/05/08
Bromochloromethane	ND	4.7	0.9328	141065	08/05/08
1,1,1-Trichloroethane	160	130	25.00	141124	08/06/08
1,1-Dichloropropene	ND	4.7	0.9328	141065	08/05/08
Carbon Tetrachloride	ND	4.7	0.9328	141065	08/05/08
1,2-Dichloroethane	ND	4.7	0.9328	141065	08/05/08
Benzene	ND	4.7	0.9328	141065	08/05/08
Trichloroethene	ND	4.7	0.9328	141065	08/05/08
1,2-Dichloropropane	ND	4.7	0.9328	141065	08/05/08
Bromodichloromethane	ND	4.7	0.9328	141065	08/05/08
Dibromomethane	ND	4.7	0.9328	141065	08/05/08
4-Methyl-2-Pentanone	ND	9.3	0.9328	141065	08/05/08
cis-1,3-Dichloropropene	ND	4.7	0.9328	141065	08/05/08
Toluene	ND	4.7	0.9328	141065	08/05/08
trans-1,3-Dichloropropene	ND	4.7	0.9328	141065	08/05/08
1,1,2-Trichloroethane	ND	4.7	0.9328	141065	08/05/08
2-Hexanone	ND	9.3	0.9328	141065	08/05/08
1,3-Dichloropropane	ND	4.7	0.9328	141065	08/05/08
Tetrachloroethene	ND	4.7	0.9328	141065	08/05/08
Dibromochloromethane	ND	4.7	0.9328	141065	08/05/08
1,2-Dibromoethane	ND	4.7	0.9328	141065	08/05/08
Chlorobenzene	ND	4.7	0.9328	141065	08/05/08
1,1,1,2-Tetrachloroethane	ND	4.7	0.9328	141065	08/05/08
Ethylbenzene	ND	4.7	0.9328	141065	08/05/08
m,p-Xylenes	ND	4.7	0.9328	141065	08/05/08
o-Xylene	ND	4.7	0.9328	141065	08/05/08
Styrene	ND	4.7	0.9328	141065	08/05/08
Bromoform	ND	4.7	0.9328	141065	08/05/08
Isopropylbenzene	ND	4.7	0.9328	141065	08/05/08
1,1,2,2-Tetrachloroethane	ND	4.7	0.9328	141065	08/05/08
1,2,3-Trichloropropane	ND	4.7	0.9328	141065	08/05/08
Propylbenzene	ND	4.7	0.9328	141065	08/05/08
Bromobenzene	ND	4.7	0.9328	141065	08/05/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-15-2.5-3	Basis:	as received
Lab ID:	205011-005	Sampled:	07/31/08
Matrix:	Soil	Received:	07/31/08
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,3,5-Trimethylbenzene	ND	4.7	0.9328	141065	08/05/08
2-Chlorotoluene	ND	4.7	0.9328	141065	08/05/08
4-Chlorotoluene	ND	4.7	0.9328	141065	08/05/08
tert-Butylbenzene	ND	4.7	0.9328	141065	08/05/08
1,2,4-Trimethylbenzene	ND	4.7	0.9328	141065	08/05/08
sec-Butylbenzene	ND	4.7	0.9328	141065	08/05/08
para-Isopropyl Toluene	ND	4.7	0.9328	141065	08/05/08
1,3-Dichlorobenzene	ND	4.7	0.9328	141065	08/05/08
1,4-Dichlorobenzene	ND	4.7	0.9328	141065	08/05/08
n-Butylbenzene	ND	4.7	0.9328	141065	08/05/08
1,2-Dichlorobenzene	ND	4.7	0.9328	141065	08/05/08
1,2-Dibromo-3-Chloropropane	ND	4.7	0.9328	141065	08/05/08
1,2,4-Trichlorobenzene	ND	4.7	0.9328	141065	08/05/08
Hexachlorobutadiene	ND	4.7	0.9328	141065	08/05/08
Naphthalene	ND	4.7	0.9328	141065	08/05/08
1,2,3-Trichlorobenzene	ND	4.7	0.9328	141065	08/05/08

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	101	78-126	0.9328	141065	08/05/08
1,2-Dichloroethane-d4	106	76-137	0.9328	141065	08/05/08
Toluene-d8	93	80-120	0.9328	141065	08/05/08
Bromofluorobenzene	110	80-121	0.9328	141065	08/05/08
Trifluorotoluene (MeOH)	90	52-145	25.00	141124	08/06/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-15-6-6.5	Basis:	as received
Lab ID:	205011-006	Sampled:	07/31/08
Matrix:	Soil	Received:	07/31/08
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	8.7	0.8681	141065	08/05/08
tert-Butyl Alcohol (TBA)	ND	87	0.8681	141065	08/05/08
Chloromethane	ND	8.7	0.8681	141065	08/05/08
Isopropyl Ether (DIPE)	ND	4.3	0.8681	141065	08/05/08
Vinyl Chloride	ND	8.7	0.8681	141065	08/05/08
Bromomethane	ND	8.7	0.8681	141065	08/05/08
Ethyl tert-Butyl Ether (ETBE)	ND	4.3	0.8681	141065	08/05/08
Chloroethane	ND	8.7	0.8681	141065	08/05/08
Methyl tert-Amyl Ether (TAME)	ND	4.3	0.8681	141065	08/05/08
Trichlorofluoromethane	ND	4.3	0.8681	141065	08/05/08
Acetone	ND	17	0.8681	141065	08/05/08
Freon 113	ND	4.3	0.8681	141065	08/05/08
1,1-Dichloroethene	31	4.3	0.8681	141065	08/05/08
Methylene Chloride	ND	17	0.8681	141065	08/05/08
Carbon Disulfide	ND	4.3	0.8681	141065	08/05/08
MTBE	ND	4.3	0.8681	141065	08/05/08
trans-1,2-Dichloroethene	ND	4.3	0.8681	141065	08/05/08
Vinyl Acetate	ND	43	0.8681	141065	08/05/08
1,1-Dichloroethane	ND	130	25.00	141226	08/08/08
2-Butanone	ND	8.7	0.8681	141065	08/05/08
cis-1,2-Dichloroethene	ND	4.3	0.8681	141065	08/05/08
2,2-Dichloropropane	ND	4.3	0.8681	141065	08/05/08
Chloroform	ND	4.3	0.8681	141065	08/05/08
Bromochloromethane	ND	4.3	0.8681	141065	08/05/08
1,1,1-Trichloroethane	ND	130	25.00	141226	08/08/08
1,1-Dichloropropene	ND	4.3	0.8681	141065	08/05/08
Carbon Tetrachloride	ND	4.3	0.8681	141065	08/05/08
1,2-Dichloroethane	ND	4.3	0.8681	141065	08/05/08
Benzene	ND	4.3	0.8681	141065	08/05/08
Trichloroethene	ND	4.3	0.8681	141065	08/05/08
1,2-Dichloropropane	ND	4.3	0.8681	141065	08/05/08
Bromodichloromethane	ND	4.3	0.8681	141065	08/05/08
Dibromomethane	ND	4.3	0.8681	141065	08/05/08
4-Methyl-2-Pentanone	ND	8.7	0.8681	141065	08/05/08
cis-1,3-Dichloropropene	ND	4.3	0.8681	141065	08/05/08
Toluene	ND	4.3	0.8681	141065	08/05/08
trans-1,3-Dichloropropene	ND	4.3	0.8681	141065	08/05/08
1,1,2-Trichloroethane	ND	4.3	0.8681	141065	08/05/08
2-Hexanone	ND	8.7	0.8681	141065	08/05/08
1,3-Dichloropropane	ND	4.3	0.8681	141065	08/05/08
Tetrachloroethene	ND	4.3	0.8681	141065	08/05/08
Dibromochloromethane	ND	4.3	0.8681	141065	08/05/08
1,2-Dibromoethane	ND	4.3	0.8681	141065	08/05/08
Chlorobenzene	ND	4.3	0.8681	141065	08/05/08
1,1,1,2-Tetrachloroethane	ND	4.3	0.8681	141065	08/05/08
Ethylbenzene	ND	4.3	0.8681	141065	08/05/08
m,p-Xylenes	ND	4.3	0.8681	141065	08/05/08
o-Xylene	ND	4.3	0.8681	141065	08/05/08
Styrene	ND	4.3	0.8681	141065	08/05/08
Bromoform	ND	4.3	0.8681	141065	08/05/08
Isopropylbenzene	ND	4.3	0.8681	141065	08/05/08
1,1,2,2-Tetrachloroethane	ND	4.3	0.8681	141065	08/05/08
1,2,3-Trichloropropane	ND	4.3	0.8681	141065	08/05/08
Propylbenzene	ND	4.3	0.8681	141065	08/05/08
Bromobenzene	ND	4.3	0.8681	141065	08/05/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-15-6-6.5	Basis:	as received
Lab ID:	205011-006	Sampled:	07/31/08
Matrix:	Soil	Received:	07/31/08
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,3,5-Trimethylbenzene	ND	4.3	0.8681	141065	08/05/08
2-Chlorotoluene	ND	4.3	0.8681	141065	08/05/08
4-Chlorotoluene	ND	4.3	0.8681	141065	08/05/08
tert-Butylbenzene	ND	4.3	0.8681	141065	08/05/08
1,2,4-Trimethylbenzene	ND	4.3	0.8681	141065	08/05/08
sec-Butylbenzene	ND	4.3	0.8681	141065	08/05/08
para-Isopropyl Toluene	ND	4.3	0.8681	141065	08/05/08
1,3-Dichlorobenzene	ND	4.3	0.8681	141065	08/05/08
1,4-Dichlorobenzene	ND	4.3	0.8681	141065	08/05/08
n-Butylbenzene	ND	4.3	0.8681	141065	08/05/08
1,2-Dichlorobenzene	ND	4.3	0.8681	141065	08/05/08
1,2-Dibromo-3-Chloropropane	ND	4.3	0.8681	141065	08/05/08
1,2,4-Trichlorobenzene	ND	4.3	0.8681	141065	08/05/08
Hexachlorobutadiene	ND	4.3	0.8681	141065	08/05/08
Naphthalene	ND	4.3	0.8681	141065	08/05/08
1,2,3-Trichlorobenzene	ND	4.3	0.8681	141065	08/05/08

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	99	78-126	0.8681	141065	08/05/08
1,2-Dichloroethane-d4	103	76-137	0.8681	141065	08/05/08
Toluene-d8	96	80-120	0.8681	141065	08/05/08
Bromofluorobenzene	101	80-121	0.8681	141065	08/05/08
Trifluorotoluene (MeOH)	99	52-145	25.00	141226	08/08/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-12-2.5-3	Diln Fac:	200.0
Lab ID:	205011-007	Batch#:	141385
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/13/08

Analyte	Result	RL
Freon 12	ND	2,000
tert-Butyl Alcohol (TBA)	ND	20,000
Chloromethane	ND	2,000
Isopropyl Ether (DIPE)	ND	1,000
Vinyl Chloride	ND	2,000
Bromomethane	ND	2,000
Ethyl tert-Butyl Ether (ETBE)	ND	1,000
Chloroethane	ND	2,000
Methyl tert-Amyl Ether (TAME)	ND	1,000
Trichlorofluoromethane	ND	1,000
Acetone	ND	4,000
Freon 113	ND	1,000
1,1-Dichloroethene	ND	1,000
Methylene Chloride	ND	4,000
Carbon Disulfide	ND	1,000
MTBE	ND	1,000
trans-1,2-Dichloroethene	ND	1,000
Vinyl Acetate	ND	10,000
1,1-Dichloroethane	2,500	1,000
2-Butanone	ND	2,000
cis-1,2-Dichloroethene	ND	1,000
2,2-Dichloropropane	ND	1,000
Chloroform	ND	1,000
Bromochloromethane	ND	1,000
1,1,1-Trichloroethane	11,000	1,000
1,1-Dichloropropene	ND	1,000
Carbon Tetrachloride	ND	1,000
1,2-Dichloroethane	ND	1,000
Benzene	ND	1,000
Trichloroethene	ND	1,000
1,2-Dichloropropane	ND	1,000
Bromodichloromethane	ND	1,000
Dibromomethane	ND	1,000
4-Methyl-2-Pentanone	ND	2,000
cis-1,3-Dichloropropene	ND	1,000
Toluene	ND	1,000
trans-1,3-Dichloropropene	ND	1,000
1,1,2-Trichloroethane	ND	1,000
2-Hexanone	ND	2,000
1,3-Dichloropropane	ND	1,000
Tetrachloroethene	ND	1,000
Dibromochloromethane	ND	1,000
1,2-Dibromoethane	ND	1,000
Chlorobenzene	ND	1,000
1,1,1,2-Tetrachloroethane	ND	1,000
Ethylbenzene	ND	1,000
m,p-Xylenes	ND	1,000
o-Xylene	ND	1,000
Styrene	ND	1,000
Bromoform	ND	1,000
Isopropylbenzene	ND	1,000
1,1,2,2-Tetrachloroethane	ND	1,000
1,2,3-Trichloropropane	ND	1,000
Propylbenzene	ND	1,000

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-12-2.5-3	Diln Fac:	200.0
Lab ID:	205011-007	Batch#:	141385
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/13/08

Analyte	Result	RL
Bromobenzene	ND	1,000
1,3,5-Trimethylbenzene	ND	1,000
2-Chlorotoluene	ND	1,000
4-Chlorotoluene	ND	1,000
tert-Butylbenzene	ND	1,000
1,2,4-Trimethylbenzene	ND	1,000
sec-Butylbenzene	ND	1,000
para-Isopropyl Toluene	ND	1,000
1,3-Dichlorobenzene	ND	1,000
1,4-Dichlorobenzene	ND	1,000
n-Butylbenzene	ND	1,000
1,2-Dichlorobenzene	ND	1,000
1,2-Dibromo-3-Chloropropane	ND	1,000
1,2,4-Trichlorobenzene	ND	1,000
Hexachlorobutadiene	ND	1,000
Naphthalene	ND	1,000
1,2,3-Trichlorobenzene	ND	1,000

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-126
1,2-Dichloroethane-d4	105	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	109	80-121
Trifluorotoluene (MeOH)	96	52-145

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-12-6-6.5	Basis:	as received
Lab ID:	205011-008	Sampled:	07/31/08
Matrix:	Soil	Received:	07/31/08
Units:	ug/Kg		

Analyte	Result	RL	Dil'n Fac	Batch#	Analyzed
Freon 12	ND	16	1.603	141065	08/05/08
tert-Butyl Alcohol (TBA)	ND	160	1.603	141065	08/05/08
Chloromethane	ND	16	1.603	141065	08/05/08
Isopropyl Ether (DIPE)	ND	8.0	1.603	141065	08/05/08
Vinyl Chloride	ND	16	1.603	141065	08/05/08
Bromomethane	ND	16	1.603	141065	08/05/08
Ethyl tert-Butyl Ether (ETBE)	ND	8.0	1.603	141065	08/05/08
Chloroethane	ND	16	1.603	141065	08/05/08
Methyl tert-Amyl Ether (TAME)	ND	8.0	1.603	141065	08/05/08
Trichlorofluoromethane	ND	8.0	1.603	141065	08/05/08
Acetone	ND	32	1.603	141065	08/05/08
Freon 113	ND	8.0	1.603	141065	08/05/08
1,1-Dichloroethene	ND	8.0	1.603	141065	08/05/08
Methylene Chloride	ND	32	1.603	141065	08/05/08
Carbon Disulfide	ND	8.0	1.603	141065	08/05/08
MTBE	ND	8.0	1.603	141065	08/05/08
trans-1,2-Dichloroethene	ND	8.0	1.603	141065	08/05/08
Vinyl Acetate	ND	80	1.603	141065	08/05/08
1,1-Dichloroethane	350	130	25.00	141226	08/08/08
2-Butanone	ND	16	1.603	141065	08/05/08
cis-1,2-Dichloroethene	ND	8.0	1.603	141065	08/05/08
2,2-Dichloropropane	ND	8.0	1.603	141065	08/05/08
Chloroform	ND	8.0	1.603	141065	08/05/08
Bromochloromethane	ND	8.0	1.603	141065	08/05/08
1,1,1-Trichloroethane	1,000	130	25.00	141226	08/08/08
1,1-Dichloropropene	ND	8.0	1.603	141065	08/05/08
Carbon Tetrachloride	ND	8.0	1.603	141065	08/05/08
1,2-Dichloroethane	ND	8.0	1.603	141065	08/05/08
Benzene	ND	8.0	1.603	141065	08/05/08
Trichloroethene	ND	8.0	1.603	141065	08/05/08
1,2-Dichloropropane	ND	8.0	1.603	141065	08/05/08
Bromodichloromethane	ND	8.0	1.603	141065	08/05/08
Dibromomethane	ND	8.0	1.603	141065	08/05/08
4-Methyl-2-Pentanone	ND	16	1.603	141065	08/05/08
cis-1,3-Dichloropropene	ND	8.0	1.603	141065	08/05/08
Toluene	ND	8.0	1.603	141065	08/05/08
trans-1,3-Dichloropropene	ND	8.0	1.603	141065	08/05/08
1,1,2-Trichloroethane	ND	8.0	1.603	141065	08/05/08
2-Hexanone	ND	16	1.603	141065	08/05/08
1,3-Dichloropropane	ND	8.0	1.603	141065	08/05/08
Tetrachloroethene	ND	8.0	1.603	141065	08/05/08
Dibromochloromethane	ND	8.0	1.603	141065	08/05/08
1,2-Dibromoethane	ND	8.0	1.603	141065	08/05/08
Chlorobenzene	ND	8.0	1.603	141065	08/05/08
1,1,1,2-Tetrachloroethane	ND	8.0	1.603	141065	08/05/08
Ethylbenzene	ND	8.0	1.603	141065	08/05/08
m,p-Xylenes	ND	8.0	1.603	141065	08/05/08
o-Xylene	ND	8.0	1.603	141065	08/05/08
Styrene	ND	8.0	1.603	141065	08/05/08
Bromoform	ND	8.0	1.603	141065	08/05/08
Isopropylbenzene	ND	8.0	1.603	141065	08/05/08
1,1,2,2-Tetrachloroethane	ND	8.0	1.603	141065	08/05/08
1,2,3-Trichloropropane	ND	8.0	1.603	141065	08/05/08
Propylbenzene	ND	8.0	1.603	141065	08/05/08
Bromobenzene	ND	8.0	1.603	141065	08/05/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-12-6-6.5	Basis:	as received
Lab ID:	205011-008	Sampled:	07/31/08
Matrix:	Soil	Received:	07/31/08
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,3,5-Trimethylbenzene	ND	8.0	1.603	141065	08/05/08
2-Chlorotoluene	ND	8.0	1.603	141065	08/05/08
4-Chlorotoluene	ND	8.0	1.603	141065	08/05/08
tert-Butylbenzene	ND	8.0	1.603	141065	08/05/08
1,2,4-Trimethylbenzene	ND	8.0	1.603	141065	08/05/08
sec-Butylbenzene	ND	8.0	1.603	141065	08/05/08
para-Isopropyl Toluene	ND	8.0	1.603	141065	08/05/08
1,3-Dichlorobenzene	ND	8.0	1.603	141065	08/05/08
1,4-Dichlorobenzene	ND	8.0	1.603	141065	08/05/08
n-Butylbenzene	ND	8.0	1.603	141065	08/05/08
1,2-Dichlorobenzene	ND	8.0	1.603	141065	08/05/08
1,2-Dibromo-3-Chloropropane	ND	8.0	1.603	141065	08/05/08
1,2,4-Trichlorobenzene	ND	8.0	1.603	141065	08/05/08
Hexachlorobutadiene	ND	8.0	1.603	141065	08/05/08
Naphthalene	ND	8.0	1.603	141065	08/05/08
1,2,3-Trichlorobenzene	ND	8.0	1.603	141065	08/05/08

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	96	78-126	1.603	141065	08/05/08
1,2-Dichloroethane-d4	103	76-137	1.603	141065	08/05/08
Toluene-d8	97	80-120	1.603	141065	08/05/08
Bromofluorobenzene	99	80-121	1.603	141065	08/05/08
Trifluorotoluene (MeOH)	102	52-145	25.00	141226	08/08/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-12-1-1.5	Diln Fac:	1,000
Lab ID:	205011-009	Batch#:	141385
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/13/08

Analyte	Result	RL
Freon 12	ND	10,000
tert-Butyl Alcohol (TBA)	ND	100,000
Chloromethane	ND	10,000
Isopropyl Ether (DIPE)	ND	5,000
Vinyl Chloride	ND	10,000
Bromomethane	ND	10,000
Ethyl tert-Butyl Ether (ETBE)	ND	5,000
Chloroethane	ND	10,000
Methyl tert-Amyl Ether (TAME)	ND	5,000
Trichlorofluoromethane	ND	5,000
Acetone	ND	20,000
Freon 113	ND	5,000
1,1-Dichloroethene	ND	5,000
Methylene Chloride	ND	20,000
Carbon Disulfide	ND	5,000
MTBE	ND	5,000
trans-1,2-Dichloroethene	ND	5,000
Vinyl Acetate	ND	50,000
1,1-Dichloroethane	ND	5,000
2-Butanone	ND	10,000
cis-1,2-Dichloroethene	ND	5,000
2,2-Dichloropropane	ND	5,000
Chloroform	ND	5,000
Bromochloromethane	ND	5,000
1,1,1-Trichloroethane	ND	5,000
1,1-Dichloropropene	ND	5,000
Carbon Tetrachloride	ND	5,000
1,2-Dichloroethane	ND	5,000
Benzene	ND	5,000
Trichloroethene	ND	5,000
1,2-Dichloropropane	ND	5,000
Bromodichloromethane	ND	5,000
Dibromomethane	ND	5,000
4-Methyl-2-Pentanone	ND	10,000
cis-1,3-Dichloropropene	ND	5,000
Toluene	ND	5,000
trans-1,3-Dichloropropene	ND	5,000
1,1,2-Trichloroethane	ND	5,000
2-Hexanone	ND	10,000
1,3-Dichloropropane	ND	5,000
Tetrachloroethene	ND	5,000
Dibromochloromethane	ND	5,000
1,2-Dibromoethane	ND	5,000
Chlorobenzene	ND	5,000
1,1,1,2-Tetrachloroethane	ND	5,000
Ethylbenzene	ND	5,000
m,p-Xylenes	ND	5,000
o-Xylene	ND	5,000
Styrene	ND	5,000
Bromoform	ND	5,000
Isopropylbenzene	ND	5,000
1,1,2,2-Tetrachloroethane	ND	5,000
1,2,3-Trichloropropane	ND	5,000

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-12-1-1.5	Diln Fac:	1,000
Lab ID:	205011-009	Batch#:	141385
Matrix:	Soil	Sampled:	07/31/08
Units:	ug/Kg	Received:	07/31/08
Basis:	as received	Analyzed:	08/13/08

Analyte	Result	RL
Propylbenzene	ND	5,000
Bromobenzene	ND	5,000
1,3,5-Trimethylbenzene	ND	5,000
2-Chlorotoluene	ND	5,000
4-Chlorotoluene	ND	5,000
tert-Butylbenzene	ND	5,000
1,2,4-Trimethylbenzene	ND	5,000
sec-Butylbenzene	ND	5,000
para-Isopropyl Toluene	ND	5,000
1,3-Dichlorobenzene	ND	5,000
1,4-Dichlorobenzene	ND	5,000
n-Butylbenzene	ND	5,000
1,2-Dichlorobenzene	ND	5,000
1,2-Dibromo-3-Chloropropane	ND	5,000
1,2,4-Trichlorobenzene	ND	5,000
Hexachlorobutadiene	ND	5,000
Naphthalene	ND	5,000
1,2,3-Trichlorobenzene	ND	5,000

Surrogate	%REC	Limits
Dibromofluoromethane	94	78-126
1,2-Dichloroethane-d4	108	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	112	80-121
Trifluorotoluene (MeOH)	DO	52-145

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC453838	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141029
Units:	ug/Kg	Analyzed:	08/04/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC453838	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141029
Units:	ug/Kg	Analyzed:	08/04/08

Analyte	Result	RL
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	94	78-126
1,2-Dichloroethane-d4	101	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	97	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC453982	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141065
Units:	ug/Kg	Analyzed:	08/05/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC453982	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141065
Units:	ug/Kg	Analyzed:	08/05/08

Analyte	Result	RL
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	95	78-126
1,2-Dichloroethane-d4	98	76-137
Toluene-d8	94	80-120
Bromofluorobenzene	94	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC454213	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141124
Units:	ug/Kg	Analyzed:	08/06/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC454213	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141124
Units:	ug/Kg	Analyzed:	08/06/08

Analyte	Result	RL
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	93	78-126
1,2-Dichloroethane-d4	91	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	106	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC454719	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141226
Units:	ug/Kg	Analyzed:	08/08/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC454719	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141226
Units:	ug/Kg	Analyzed:	08/08/08

Analyte	Result	RL
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	96	78-126
1,2-Dichloroethane-d4	103	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	116	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC455494	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141385
Units:	ug/Kg	Analyzed:	08/13/08

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC455494	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141385
Units:	ug/Kg	Analyzed:	08/13/08

Analyte	Result	RL
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	98	78-126
1,2-Dichloroethane-d4	107	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	113	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	141029
Basis:	as received	Analyzed:	08/04/08

Type: BS Lab ID: QC453836

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	128.6	103	58-135
Isopropyl Ether (DIPE)	25.00	28.91	116	62-120
Ethyl tert-Butyl Ether (ETBE)	25.00	29.75	119	65-121
Methyl tert-Amyl Ether (TAME)	25.00	28.71	115	71-122
1,1-Dichloroethene	25.00	27.73	111	71-133
Benzene	25.00	27.97	112	79-123
Trichloroethene	25.00	27.63	111	79-124
Toluene	25.00	26.96	108	80-123
Chlorobenzene	25.00	26.51	106	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-126
1,2-Dichloroethane-d4	95	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	99	80-121

Type: BSD Lab ID: QC453837

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	150.9	121	58-135	16	27
Isopropyl Ether (DIPE)	25.00	28.37	113	62-120	2	20
Ethyl tert-Butyl Ether (ETBE)	25.00	29.67	119	65-121	0	20
Methyl tert-Amyl Ether (TAME)	25.00	28.88	116	71-122	1	20
1,1-Dichloroethene	25.00	27.64	111	71-133	0	20
Benzene	25.00	27.62	110	79-123	1	20
Trichloroethene	25.00	27.63	111	79-124	0	20
Toluene	25.00	26.67	107	80-123	1	20
Chlorobenzene	25.00	25.93	104	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-126
1,2-Dichloroethane-d4	94	76-137
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	141065
Basis:	as received	Analyzed:	08/05/08

Type: BS Lab ID: QC453980

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	128.9	103	58-135
Isopropyl Ether (DIPE)	25.00	24.95	100	62-120
Ethyl tert-Butyl Ether (ETBE)	25.00	25.39	102	65-121
Methyl tert-Amyl Ether (TAME)	25.00	26.61	106	71-122
1,1-Dichloroethene	25.00	29.18	117	71-133
Benzene	25.00	26.55	106	79-123
Trichloroethene	25.00	26.60	106	79-124
Toluene	25.00	27.71	111	80-123
Chlorobenzene	25.00	25.30	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-126
1,2-Dichloroethane-d4	94	76-137
Toluene-d8	98	80-120
Bromofluorobenzene	90	80-121

Type: BSD Lab ID: QC453981

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	124.6	100	58-135	3	27
Isopropyl Ether (DIPE)	25.00	24.64	99	62-120	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	25.33	101	65-121	0	20
Methyl tert-Amyl Ether (TAME)	25.00	23.77	95	71-122	11	20
1,1-Dichloroethene	25.00	27.49	110	71-133	6	20
Benzene	25.00	25.20	101	79-123	5	20
Trichloroethene	25.00	25.80	103	79-124	3	20
Toluene	25.00	25.64	103	80-123	8	20
Chlorobenzene	25.00	25.65	103	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-126
1,2-Dichloroethane-d4	90	76-137
Toluene-d8	94	80-120
Bromofluorobenzene	94	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	141124
Basis:	as received	Analyzed:	08/06/08

Type: BS Lab ID: QC454214

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	111.1	89	58-135
Isopropyl Ether (DIPE)	25.00	23.08	92	62-120
Ethyl tert-Butyl Ether (ETBE)	25.00	24.31	97	65-121
Methyl tert-Amyl Ether (TAME)	25.00	24.61	98	71-122
1,1-Dichloroethene	25.00	23.59	94	71-133
Benzene	25.00	23.12	92	79-123
Trichloroethene	25.00	23.40	94	79-124
Toluene	25.00	23.28	93	80-123
Chlorobenzene	25.00	22.17	89	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-126
1,2-Dichloroethane-d4	97	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-121

Type: BSD Lab ID: QC454215

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	116.4	93	58-135	5	27
Isopropyl Ether (DIPE)	25.00	23.55	94	62-120	2	20
Ethyl tert-Butyl Ether (ETBE)	25.00	24.93	100	65-121	2	20
Methyl tert-Amyl Ether (TAME)	25.00	25.06	100	71-122	2	20
1,1-Dichloroethene	25.00	25.16	101	71-133	6	20
Benzene	25.00	24.24	97	79-123	5	20
Trichloroethene	25.00	24.21	97	79-124	3	20
Toluene	25.00	25.01	100	80-123	7	20
Chlorobenzene	25.00	22.87	91	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-126
1,2-Dichloroethane-d4	99	76-137
Toluene-d8	102	80-120
Bromofluorobenzene	98	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC454720	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141226
Units:	ug/Kg	Analyzed:	08/08/08

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	150.4	120	58-135
Isopropyl Ether (DIPE)	25.00	26.33	105	62-120
Ethyl tert-Butyl Ether (ETBE)	25.00	28.26	113	65-121
Methyl tert-Amyl Ether (TAME)	25.00	28.29	113	71-122
1,1-Dichloroethene	25.00	20.68	83	71-133
Benzene	25.00	21.97	88	79-123
Trichloroethene	25.00	23.11	92	79-124
Toluene	25.00	22.46	90	80-123
Chlorobenzene	25.00	22.47	90	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-126
1,2-Dichloroethane-d4	108	76-137
Toluene-d8	99	80-120
Bromofluorobenzene	105	80-121

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC455362	Diln Fac:	1.000
Matrix:	Soil	Batch#:	141385
Units:	ug/Kg	Analyzed:	08/13/08

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	126.5	101	58-135
Isopropyl Ether (DIPE)	25.00	22.19	89	62-120
Ethyl tert-Butyl Ether (ETBE)	25.00	24.28	97	65-121
Methyl tert-Amyl Ether (TAME)	25.00	25.23	101	71-122
1,1-Dichloroethene	25.00	22.66	91	71-133
Benzene	25.00	22.33	89	79-123
Trichloroethene	25.00	23.31	93	79-124
Toluene	25.00	23.78	95	80-123
Chlorobenzene	25.00	22.63	91	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	78-126
1,2-Dichloroethane-d4	107	76-137
Toluene-d8	102	80-120
Bromofluorobenzene	101	80-121

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205011	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9671
MSS Lab ID:	205190-003	Batch#:	141385
Matrix:	Soil	Sampled:	08/07/08
Units:	ug/Kg	Received:	08/08/08
Basis:	as received	Analyzed:	08/13/08

Type: MS Lab ID: QC455429

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<15.71	241.8	202.6	84	43-126
Isopropyl Ether (DIPE)	<0.2999	48.36	41.80	86	48-120
Ethyl tert-Butyl Ether (ETBE)	<0.2959	48.36	46.11	95	51-121
Methyl tert-Amyl Ether (TAME)	<0.2956	48.36	46.17	95	55-120
1,1-Dichloroethene	<0.3455	48.36	43.13	89	55-139
Benzene	<0.4455	48.36	40.29	83	55-120
Trichloroethene	<0.2660	48.36	41.75	86	47-140
Toluene	<0.4821	48.36	41.58	86	52-121
Chlorobenzene	<0.3111	48.36	40.52	84	47-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-126
1,2-Dichloroethane-d4	106	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	100	80-121

Type: MSD Lab ID: QC455430

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	241.8	189.1	78	43-126	7	39
Isopropyl Ether (DIPE)	48.36	38.97	81	48-120	7	30
Ethyl tert-Butyl Ether (ETBE)	48.36	42.67	88	51-121	8	30
Methyl tert-Amyl Ether (TAME)	48.36	42.33	88	55-120	9	29
1,1-Dichloroethene	48.36	44.69	92	55-139	4	29
Benzene	48.36	41.31	85	55-120	3	26
Trichloroethene	48.36	43.14	89	47-140	3	28
Toluene	48.36	42.54	88	52-121	2	29
Chlorobenzene	48.36	41.70	86	47-120	3	29

Surrogate	%REC	Limits
Dibromofluoromethane	101	78-126
1,2-Dichloroethane-d4	107	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	98	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 205012
ANALYTICAL REPORT

PES Environmental, Inc.	Project : 1148.001.03.002
1682 Novato Boulevard	Location : 4700 Coliseum Way Site, Oakland
Novato, CA 94947	Level : II

Sample ID	Lab ID
B-9-W	205012-001
B-10-W	205012-002
B-11-W	205012-003

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 signatures. 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: _____ Date: 08/14/2008
Laboratory Director

Signature: _____ Date: 08/26/2008
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	205012
Client:	PES Environmental, Inc.
Project:	1148.001.03.002
Location:	4700 Coliseum Way Site, Oakland
Request Date:	07/31/08
Samples Received:	07/31/08

This hardcopy data package contains sample and QC results for three water samples, requested for the above referenced project on 07/31/08. The samples were received on ice and intact.

Volatile Organics by GC/MS (EPA 8260B):

B-11-W (lab # 205012-003) was analyzed with more than 1 mL of headspace in the VOA vial. B-9-W (lab # 205012-001), B-10-W (lab # 205012-002), and B-11-W (lab # 205012-003) had pH greater than 2. Analyses for m-p Xylenes in samples B-10-W (205012-002) and B-11-W(205012-003)were completed one day after the 7 day hold for unpreserved samples. No other analytical problems were encountered.

PES Environmental, Inc.
Engineering & Environmental Services

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

CHAIN OF CUSTODY RECORD

205012

LABORATORY: Curtis and Tompkins

SAMPLERS: Miguel Rico

JOB NUMBER: 1148.001.03.002

NAME / LOCATION: 4700 Coliseum Way Site / Oakland, Ca

PROJECT MANAGER: Kyle Flory

RECORDER: Miguel Rico

	DATE				SAMPLE NUMBER / DESIGNATION	MATRIX					# of Containers & Preservatives						DEPTH IN FEET
	YR	MO	DY	TIME		Vapor	Water	Soil	Sedim't		Unpres.	EnCore	H_2SO_4	HNO_3	HCl		
1	08	07	31	1100	B-9-W		X								3		
2	08	07	31	0945	B-10-W		X								3		
3	08	07	31	1020	B-11-W		X				3				3 HCl		

ANALYSIS REQUESTED

EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B Plus MTBE & gasoline oxygenates	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)
		X					
		X					
		X					

NOTES

Turn Around Time: Standard 5-day TAT

Please send copy of Chain of Custody to Kyle Flory & Gary Thomas upon receipt @ KFlory@pesenv.com & gthomas@pesenv.com

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	7/31/08	2:32pm
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
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: Dropped off at laboratory on ice, intact

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 205012 Date Received 7/31/08 Number of coolers 1
Client PES Project 4700 Coliseum Way Site

Date Opened 7/31 By (print) KWellbrock (sign) KWellbrock
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:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 13.8

☐ Samples Received on ice & cold without a temperature blank

☒ 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? 1447
9. Did all bottles arrive unbroken/unopened?..... (YES) NO
10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO
11. Are sample labels present, in good condition and complete? ..... (YES) NO
12. Do the sample labels agree with custody papers? ..... (YES) NO
13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO
14. Are the samples appropriately preserved? ..... (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples?..... (YES) NO (N/A) KWellbrock 7/31/08
16. Was the client contacted concerning this sample delivery?..... YES NO
If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-9-W	Batch#:	141171
Lab ID:	205012-001	Sampled:	07/31/08
Matrix:	Water	Received:	07/31/08
Units:	ug/L	Analyzed:	08/07/08
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	22	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	12	10
Freon 113	ND	2.0
1,1-Dichloroethene	4.5	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	5.1	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	1.4	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	0.9	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-9-W	Batch#:	141171
Lab ID:	205012-001	Sampled:	07/31/08
Matrix:	Water	Received:	07/31/08
Units:	ug/L	Analyzed:	08/07/08
Diln Fac:	1.000		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	102	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-10-W	Units:	ug/L
Lab ID:	205012-002	Sampled:	07/31/08
Matrix:	Water	Received:	07/31/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	7.1	7.143	141171	08/07/08
tert-Butyl Alcohol (TBA)	ND	71	7.143	141171	08/07/08
Chloromethane	ND	7.1	7.143	141171	08/07/08
Isopropyl Ether (DIPE)	6.3	3.6	7.143	141171	08/07/08
Vinyl Chloride	ND	3.6	7.143	141171	08/07/08
Bromomethane	ND	7.1	7.143	141171	08/07/08
Ethyl tert-Butyl Ether (ETBE)	ND	3.6	7.143	141171	08/07/08
Chloroethane	ND	7.1	7.143	141171	08/07/08
Methyl tert-Amyl Ether (TAME)	ND	3.6	7.143	141171	08/07/08
Trichlorofluoromethane	ND	7.1	7.143	141171	08/07/08
Acetone	610	71	7.143	141171	08/07/08
Freon 113	ND	14	7.143	141171	08/07/08
1,1-Dichloroethene	39	3.6	7.143	141171	08/07/08
Methylene Chloride	ND	71	7.143	141171	08/07/08
Carbon Disulfide	ND	3.6	7.143	141171	08/07/08
MTBE	ND	3.6	7.143	141171	08/07/08
trans-1,2-Dichloroethene	ND	3.6	7.143	141171	08/07/08
Vinyl Acetate	ND	71	7.143	141171	08/07/08
1,1-Dichloroethane	48	3.6	7.143	141171	08/07/08
2-Butanone	ND	71	7.143	141171	08/07/08
cis-1,2-Dichloroethene	ND	3.6	7.143	141171	08/07/08
2,2-Dichloropropane	ND	3.6	7.143	141171	08/07/08
Chloroform	ND	3.6	7.143	141171	08/07/08
Bromochloromethane	ND	3.6	7.143	141171	08/07/08
1,1,1-Trichloroethane	ND	3.6	7.143	141171	08/07/08
1,1-Dichloropropene	ND	3.6	7.143	141171	08/07/08
Carbon Tetrachloride	ND	3.6	7.143	141171	08/07/08
1,2-Dichloroethane	ND	3.6	7.143	141171	08/07/08
Benzene	ND	3.6	7.143	141171	08/07/08
Trichloroethene	120	3.6	7.143	141171	08/07/08
1,2-Dichloropropane	ND	3.6	7.143	141171	08/07/08
Bromodichloromethane	ND	3.6	7.143	141171	08/07/08
Dibromomethane	ND	3.6	7.143	141171	08/07/08
4-Methyl-2-Pentanone	ND	71	7.143	141171	08/07/08
cis-1,3-Dichloropropene	ND	3.6	7.143	141171	08/07/08
Toluene	9.6	3.6	7.143	141171	08/07/08
trans-1,3-Dichloropropene	ND	3.6	7.143	141171	08/07/08
1,1,2-Trichloroethane	ND	3.6	7.143	141171	08/07/08
2-Hexanone	ND	71	7.143	141171	08/07/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-10-W	Units:	ug/L
Lab ID:	205012-002	Sampled:	07/31/08
Matrix:	Water	Received:	07/31/08

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,3-Dichloropropane	ND	3.6	7.143	141171	08/07/08
Tetrachloroethene	ND	3.6	7.143	141171	08/07/08
Dibromochloromethane	ND	3.6	7.143	141171	08/07/08
1,2-Dibromoethane	ND	3.6	7.143	141171	08/07/08
Chlorobenzene	ND	3.6	7.143	141171	08/07/08
1,1,1,2-Tetrachloroethane	ND	3.6	7.143	141171	08/07/08
Ethylbenzene	340	3.6	7.143	141171	08/07/08
m,p-Xylenes	1,500	8.3	16.67	141216	08/09/08
o-Xylene	700	3.6	7.143	141171	08/07/08
Styrene	ND	3.6	7.143	141171	08/07/08
Bromoform	ND	7.1	7.143	141171	08/07/08
Isopropylbenzene	7.3	3.6	7.143	141171	08/07/08
1,1,2,2-Tetrachloroethane	ND	3.6	7.143	141171	08/07/08
1,2,3-Trichloropropane	ND	3.6	7.143	141171	08/07/08
Propylbenzene	ND	3.6	7.143	141171	08/07/08
Bromobenzene	ND	3.6	7.143	141171	08/07/08
1,3,5-Trimethylbenzene	ND	3.6	7.143	141171	08/07/08
2-Chlorotoluene	ND	3.6	7.143	141171	08/07/08
4-Chlorotoluene	ND	3.6	7.143	141171	08/07/08
tert-Butylbenzene	ND	3.6	7.143	141171	08/07/08
1,2,4-Trimethylbenzene	ND	3.6	7.143	141171	08/07/08
sec-Butylbenzene	ND	3.6	7.143	141171	08/07/08
para-Isopropyl Toluene	ND	3.6	7.143	141171	08/07/08
1,3-Dichlorobenzene	ND	3.6	7.143	141171	08/07/08
1,4-Dichlorobenzene	ND	3.6	7.143	141171	08/07/08
n-Butylbenzene	ND	3.6	7.143	141171	08/07/08
1,2-Dichlorobenzene	ND	3.6	7.143	141171	08/07/08
1,2-Dibromo-3-Chloropropane	ND	14	7.143	141171	08/07/08
1,2,4-Trichlorobenzene	ND	3.6	7.143	141171	08/07/08
Hexachlorobutadiene	ND	14	7.143	141171	08/07/08
Naphthalene	ND	14	7.143	141171	08/07/08
1,2,3-Trichlorobenzene	ND	3.6	7.143	141171	08/07/08

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	100	80-123	7.143	141171	08/07/08
1,2-Dichloroethane-d4	111	76-138	7.143	141171	08/07/08
Toluene-d8	109	80-120	7.143	141171	08/07/08
Bromofluorobenzene	106	80-120	7.143	141171	08/07/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-11-W	Diln Fac:	1.000
Lab ID:	205012-003	Sampled:	07/31/08
Matrix:	Water	Received:	07/31/08
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
Freon 12	ND	1.0	141171	08/07/08
tert-Butyl Alcohol (TBA)	ND	10	141171	08/07/08
Chloromethane	ND	1.0	141171	08/07/08
Isopropyl Ether (DIPE)	ND	0.5	141171	08/07/08
Vinyl Chloride	ND	0.5	141171	08/07/08
Bromomethane	ND	1.0	141171	08/07/08
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	141171	08/07/08
Chloroethane	ND	1.0	141171	08/07/08
Methyl tert-Amyl Ether (TAME)	ND	0.5	141171	08/07/08
Trichlorofluoromethane	ND	1.0	141171	08/07/08
Acetone	ND	10	141171	08/07/08
Freon 113	ND	2.0	141171	08/07/08
1,1-Dichloroethene	10	0.5	141171	08/07/08
Methylene Chloride	ND	10	141171	08/07/08
Carbon Disulfide	ND	0.5	141171	08/07/08
MTBE	ND	0.5	141171	08/07/08
trans-1,2-Dichloroethene	ND	0.5	141171	08/07/08
Vinyl Acetate	ND	10	141171	08/07/08
1,1-Dichloroethane	7.7	0.5	141171	08/07/08
2-Butanone	ND	10	141171	08/07/08
cis-1,2-Dichloroethene	ND	0.5	141171	08/07/08
2,2-Dichloropropane	ND	0.5	141171	08/07/08
Chloroform	ND	0.5	141171	08/07/08
Bromochloromethane	ND	0.5	141171	08/07/08
1,1,1-Trichloroethane	12	0.5	141171	08/07/08
1,1-Dichloropropene	ND	0.5	141171	08/07/08
Carbon Tetrachloride	ND	0.5	141171	08/07/08
1,2-Dichloroethane	ND	0.5	141171	08/07/08
Benzene	ND	0.5	141171	08/07/08
Trichloroethene	ND	0.5	141171	08/07/08
1,2-Dichloropropane	ND	0.5	141171	08/07/08
Bromodichloromethane	ND	0.5	141171	08/07/08
Dibromomethane	ND	0.5	141171	08/07/08
4-Methyl-2-Pentanone	ND	10	141171	08/07/08
cis-1,3-Dichloropropene	ND	0.5	141171	08/07/08
Toluene	ND	0.5	141171	08/07/08
trans-1,3-Dichloropropene	ND	0.5	141171	08/07/08
1,1,2-Trichloroethane	ND	0.5	141171	08/07/08
2-Hexanone	ND	10	141171	08/07/08
1,3-Dichloropropane	ND	0.5	141171	08/07/08
Tetrachloroethene	ND	0.5	141171	08/07/08
Dibromochloromethane	ND	0.5	141171	08/07/08
1,2-Dibromoethane	ND	0.5	141171	08/07/08
Chlorobenzene	ND	0.5	141171	08/07/08
1,1,1,2-Tetrachloroethane	ND	0.5	141171	08/07/08
Ethylbenzene	ND	0.5	141171	08/07/08
m,p-Xylenes	ND	0.5	141216	08/08/08
o-Xylene	ND	0.5	141171	08/07/08
Styrene	ND	0.5	141171	08/07/08
Bromoform	ND	1.0	141171	08/07/08
Isopropylbenzene	ND	0.5	141171	08/07/08
1,1,2,2-Tetrachloroethane	ND	0.5	141171	08/07/08
1,2,3-Trichloropropane	ND	0.5	141171	08/07/08
Propylbenzene	ND	0.5	141171	08/07/08
Bromobenzene	ND	0.5	141171	08/07/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Field ID:	B-11-W	Diln Fac:	1.000
Lab ID:	205012-003	Sampled:	07/31/08
Matrix:	Water	Received:	07/31/08
Units:	ug/L		

Analyte	Result	RL	Batch#	Analyzed
1,3,5-Trimethylbenzene	ND	0.5	141171	08/07/08
2-Chlorotoluene	ND	0.5	141171	08/07/08
4-Chlorotoluene	ND	0.5	141171	08/07/08
tert-Butylbenzene	ND	0.5	141171	08/07/08
1,2,4-Trimethylbenzene	ND	0.5	141171	08/07/08
sec-Butylbenzene	ND	0.5	141171	08/07/08
para-Isopropyl Toluene	ND	0.5	141171	08/07/08
1,3-Dichlorobenzene	ND	0.5	141171	08/07/08
1,4-Dichlorobenzene	ND	0.5	141171	08/07/08
n-Butylbenzene	ND	0.5	141171	08/07/08
1,2-Dichlorobenzene	ND	0.5	141171	08/07/08
1,2-Dibromo-3-Chloropropane	ND	2.0	141171	08/07/08
1,2,4-Trichlorobenzene	ND	0.5	141171	08/07/08
Hexachlorobutadiene	ND	2.0	141171	08/07/08
Naphthalene	ND	2.0	141171	08/07/08
1,2,3-Trichlorobenzene	ND	0.5	141171	08/07/08

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	101	80-123	141171	08/07/08
1,2-Dichloroethane-d4	102	76-138	141171	08/07/08
Toluene-d8	105	80-120	141171	08/07/08
Bromofluorobenzene	103	80-120	141171	08/07/08

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC454433	Batch#:	141171
Matrix:	Water	Analyzed:	08/07/08
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC454433	Batch#:	141171
Matrix:	Water	Analyzed:	08/07/08
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-123
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC455045	Batch#:	141216
Matrix:	Water	Analyzed:	08/08/08
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC455045	Batch#:	141216
Matrix:	Water	Analyzed:	08/08/08
Units:	ug/L		

Analyte	Result	RL
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-123
1,2-Dichloroethane-d4	95	76-138
Toluene-d8	106	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	141171
Units:	ug/L	Analyzed:	08/07/08
Diln Fac:	1.000		

Type: BS Lab ID: QC454431

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	136.6	109	55-158
Isopropyl Ether (DIPE)	25.00	23.10	92	63-122
Ethyl tert-Butyl Ether (ETBE)	25.00	24.70	99	62-133
Methyl tert-Amyl Ether (TAME)	25.00	24.17	97	69-137
1,1-Dichloroethene	25.00	24.10	96	77-132
Benzene	25.00	22.62	90	80-120
Trichloroethene	25.00	23.77	95	80-120
Toluene	25.00	22.53	90	80-121
Chlorobenzene	25.00	22.32	89	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-123
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	108	80-120
Bromofluorobenzene	104	80-120

Type: BSD Lab ID: QC454432

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	131.4	105	55-158	4	20
Isopropyl Ether (DIPE)	25.00	22.81	91	63-122	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	24.53	98	62-133	1	20
Methyl tert-Amyl Ether (TAME)	25.00	23.86	95	69-137	1	20
1,1-Dichloroethene	25.00	23.19	93	77-132	4	20
Benzene	25.00	22.29	89	80-120	1	20
Trichloroethene	25.00	22.93	92	80-120	4	20
Toluene	25.00	23.04	92	80-121	2	20
Chlorobenzene	25.00	23.05	92	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-123
1,2-Dichloroethane-d4	95	76-138
Toluene-d8	103	80-120
Bromofluorobenzene	104	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	205012	Location:	4700 Coliseum Way Site, Oakland
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	1148.001.03.002	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	141216
Units:	ug/L	Analyzed:	08/08/08
Diln Fac:	1.000		

Type: BS Lab ID: QC454635

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	117.5	94	55-158
Isopropyl Ether (DIPE)	25.00	23.18	93	63-122
Ethyl tert-Butyl Ether (ETBE)	25.00	23.40	94	62-133
Methyl tert-Amyl Ether (TAME)	25.00	24.39	98	69-137
1,1-Dichloroethene	25.00	23.26	93	77-132
Benzene	25.00	22.60	90	80-120
Trichloroethene	25.00	22.39	90	80-120
Toluene	25.00	23.37	93	80-121
Chlorobenzene	25.00	23.27	93	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	95	76-138
Toluene-d8	105	80-120
Bromofluorobenzene	106	80-120

Type: BSD Lab ID: QC454636

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	138.6	111	55-158	16	20
Isopropyl Ether (DIPE)	25.00	23.97	96	63-122	3	20
Ethyl tert-Butyl Ether (ETBE)	25.00	24.63	99	62-133	5	20
Methyl tert-Amyl Ether (TAME)	25.00	25.87	103	69-137	6	20
1,1-Dichloroethene	25.00	25.15	101	77-132	8	20
Benzene	25.00	24.20	97	80-120	7	20
Trichloroethene	25.00	23.98	96	80-120	7	20
Toluene	25.00	24.37	97	80-121	4	20
Chlorobenzene	25.00	24.01	96	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-123
1,2-Dichloroethane-d4	99	76-138
Toluene-d8	106	80-120
Bromofluorobenzene	102	80-120

RPD= Relative Percent Difference

APPENDIX F

PTS LABORATORIES LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

PTS Laboratories, Inc.

8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

July 29, 2008

Kyle Flory
PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947

Re: PTS File No: 38581
4700 Coliseum Way Site/Oakland, CA
1148.001.02.002

Dear Mr. Flory:

Please find enclosed report for Physical Properties analyses conducted upon cores received from your 4700 Coliseum Way Site/Oakland, CA; 1148.001.02.002 project. All analyses were performed by applicable ASTM, EPA, or API methodologies. An electronic version of the report has previously been sent to your attention via the internet. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2504.

Sincerely,
PTS Laboratories

Rachel Spitz
Project Manager

Encl.

PTS Laboratories

Project Name: 4700 Coliseum Way Site/Oakland, CA
Project Number: 1148.001.02.002

PTS File No: 38581
Client: PES Environmental, Inc.

TEST PROGRAM

CORE ID	Depth ft.	Core Recovery ft.	Dry Bulk Density API RP 40	TOC/foc Walkley-Black	Water Filled Porosity* API RP 40			Notes
		Plugs:	Vert. 1"	Grab	Vert. 1"			
Rcvd. 07/01/08								
B-1-3.5'-4'	3.5-4	0.5	X	X	X			
B-8-3'-3.5'	3-3.5	0.5	X	X	X			
TOTALS:	2 cores	1	2	2	2			2

Laboratory Test Program Notes
*Includes total and air-filled porosity

PTS File No: 38581
Client: PES Environmental, Inc.

PHYSICAL PROPERTIES DATA - AIR FILLED POROSITY

PROJECT NAME: 4700 Coliseum Way Site/Oakland, CA
PROJECT NO: 1148.001.02.002

		METHODS:	API RP40	API RP 40		
				POROSITY, %Vb (2)		
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	DRY BULK DENSITY, g/cc	TOTAL	AIR-FILLED	WATER-FILLED
B-1-3.5'-4'	3.5-4	V	1.67	35.5	5.3	30.2
B-8-3'-3.5'	3-3.5	V	1.76	32.9	2.4	30.5

(1) Sample Orientation: H = horizontal; V = vertical (2) Total Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids; Vb = Bulk Volume, cc

PTS File No: 38581
Client: PES Environmental, Inc.

ORGANIC CARBON DATA - TOC (foc)

PROJECT NAME: 4700 Coliseum Way Site/Oakland, CA
PROJECT NO: 1148.001.02.002

		METHOD:	WALKLEY-BLACK	WALKLEY-BLACK
SAMPLE ID.	DEPTH, ft.	SAMPLE MATRIX	FRACTION ORGANIC CARBON, g/g	TOTAL ORGANIC CARBON, mg/kg
B-1-3.5'-4'	3.5-4	SOIL	2.55E-03	2550
B-8-3'-3.5'	3-3.5	SOIL	3.45E-03	3450

PES Environmental, Inc.
Engineering & Environmental Services

38581

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: ~~Curtis & Tompkins~~ PTS GeoLabs SAMPLERS: Miguel Rizo

JOB NUMBER: 1148.001-02-002

NAME / LOCATION: 4700 Coliseum Way Site/ Oakland, CA

PROJECT MANAGER: Kyle Flory RECORDER: Miguel Rizo

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
08	06	27	1235	B-1-3.5'-4'			X		1					3.5-4
08	06	27	1230	B-8-3'-3.5'			X		1					3-3.5

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)	Dry Bulk Density	Total Porosity	Air Filled Porosity	Water Filled Porosity	Total Organic Carbon Fraction
								X	X	X	X	X
								X	X	X	X	X

NOTES	CHAIN OF CUSTODY RECORD			
Turn Around Time: Standard TAT	RELINQUISHED BY: (Signature) Dan Toth	RECEIVED BY: (Signature) PTS LABS	DATE 07/01/08	TIME 9:40
	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
	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: Overnight mail			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

DISTRIBUTION

SUBSURFACE INVESTIGATION REPORT
4600-4700 COLISEUM WAY
OAKLAND, CALIFORNIA

SEPTEMBER 18, 2008

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