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ERIC O. FREEBERG
President

May 1, 2008

Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

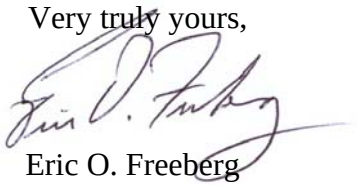
RE: Fuel Leak Case No. RO 161, American Auto Dismantlers
3744 Depot Road
Hayward, CA ("Property")

Ladies and Gentlemen:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report prepared by PIERS Environmental Services, Inc. is true and correct to the best of my knowledge.

I also declare that as the President, I am the responsible party for Riverbend Properties, Inc., a California corporation.

Very truly yours,



Eric O. Freeberg

5-1-08-C-RBP-Alameda County

Additional Soil and Groundwater Investigation Report
For
3744 DEPOT ROAD
HAYWARD, CALIFORNIA

Prepared For:
Mr. Eric Freeberg
Riverbend Properties
PO Box 9440
Rancho Santa Fe, CA 92067-4440

Prepared By:
PIERS Environmental Services, Inc.
1330 S. Bascom Avenue, Suite F
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December 2008
PIERS Project Number: 8223

PIERS Environmental Services, Inc.

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Tel (408) 559-1248 Fax (408) 559-1224

December 30, 2008

Mr. Paresh Khatri
Alameda County Environmental Health Services
1131 Harbor Way Parkway, Suite 250
Alameda, CA 94502-6577

RE: **Report of Additional Soil and Water Investigation**
Fuel Leak Case No. RO0000161, Geotracker Global ID T0600101922
American Auto Wreckers, 3744 Depot Road, Hayward, California

Dear Mr. Khatri:

In response to your review letter dated July 10, 2008, PIERS previously prepared a "Work Plan for Additional Soil and Water Investigation" for the above-referenced site, dated August 28, 2008. The work plan was approved in a letter from your agency dated September 18, 2008. The purpose of this work was to further assess the extent of hydrocarbons in soil and groundwater in the vicinity of the former waste oil tank pit, and to advance the site towards eventual case closure. Previous work at the Property was summarized in a "Case Closure Summary Form" dated May 16, 2008.

SITE DESCRIPTION AND BACKGROUND

The Property is located on the south side of Depot Road, between the intersections of Depot Road with Cabot Boulevard and Foley Street, in the City of Hayward, County of Alameda, California. A Property Location Map and Site Plan are included with this report (Figures 1 and 2). The Property is identified as Assessors Parcel Number 5-1 of Assessors' Map 439, Page 70 (APN 439-70-5-1) and is approximately 2.5 acres in size. The parcel is a long, narrow rectangular site approximately 110 feet wide by 1,200 feet in length. The present tenant is American Auto Dismantler, an automobile salvage operation. The current use of the Property involves the storage and demolition of automobiles. The immediate vicinity of the Property is comprised of similar industrial usage with scrap yards.

According to previous investigations by PIERS, a 500-gallon waste oil underground storage tank (UST) and a 1,000-gallon gasoline UST were apparently excavated sometime in 1990 and 1991. The tanks were left on site for years, and finally disposed of in 1994 by a previous tenant, without a permit. The tank excavations were also left open for approximately two years before being backfilled, apparently with the aerated soils from the excavations. The Alameda County Health Services Agency (ACHSA) was informed of the tank removals in 1991 and required the Property owner to provide soil sample analytical results. Samples were later collected by an environmental consultant, TAT Environmental, in May 1992, but no report was ever issued, and the consultant is now out of business. The Property went into foreclosure, and was sold in 1996 to River Bend Properties. A series of investigations have been carried out since that time, and prior to this investigation, three groundwater monitoring wells had been installed, and were monitored and sampled for four quarters. Previous work at the Property was summarized in a "Case Closure Summary Form" dated May 16, 2008.

RECENT FIELD ACTIVITIES

The proposed scope of work included the installation of two groundwater monitoring wells and the re-sampling of soils at EB4. One groundwater monitoring well, designated as MW4, was installed in the vicinity of previous soil boring EB6. A second groundwater monitoring well, designated as MW5, was installed at the presumed down-gradient perimeter of the Property boundary.

Total Petroleum Hydrocarbons (TPH) as diesel was previously encountered in groundwater at EB4 at 350,000 parts per billion (ppb) (PIERS, 2004). In addition, 2,000 parts per million (ppm) of Total Recoverable Petroleum Hydrocarbons (TRPH) was encountered in soil from EB4 at approximately 11.5 feet below grade. These analyses were performed without a silica gel cleanup. To verify these concentrations, and to determine what fraction of these concentrations are organic, PIERS re-sampled soil at approximately 11.5 feet below grade and collected a "grab" groundwater sample (boring EB4A), and re-analyzed the samples both with and without a silica gel cleanup. By performing the analyses both with and without the silica gel cleanup, the data can be used to re-evaluate the previous data for analyses performed without the silica gel cleanup. The locations of the completed wells and soil boring are shown on Figures 2-4.

Pre-drilling Activities

Prior to drilling, a health and safety plan was prepared, the site was marked for Underground Service Alert (USA), and a USA notification was completed. Also, permits for the installation of the monitoring wells and the soil boring were obtained from Alameda County Public Works (ACPW), and well seal and grout inspections were scheduled.

Installation of Monitoring Wells

Monitoring wells MW4 and MW5 were completed at the site using a Geoprobe drill rig. The drill rig was provided and operated by Vironex, Inc., of Pacheco, California, a state-licensed driller.

Well Construction

The monitoring wells, designated as MW-4 and MW-5 on the attached Figure 2, were completed to depths of approximately 14 feet below grade (it should be noted that the proposed wells described in the work plan were designated as MW-5 and MW-6. As there was no MW-4, the newly installed wells were designated as MW-4 and MW-5). The uppermost five feet of the boreholes were completed using 8-inch-diameter augers. The remaining lengths of the borehole were first cored using standard two-inch Geoprobe rods, and then cored with 3.25-inch-diameter drilling rods. Upon completion of the soil borings to approximately 14 feet below grade, pre-pack wells with one-inch-diameter Schedule 40 PVC casing were installed in the boreholes.

The wells were screened with 0.010-inch-diameter slotted screen casing from approximately 12 to 14 feet below grade. The annular space around the casings was filled with #2/16 sand from approximately 12 to 14 feet below grade. A bentonite packer was placed in the annular space interval from approximately 10 to 12 feet below grade, separated from the sand pack by a foam annular ring. The upper ten feet of annular space was filled with neat cement grout. Boring logs of the exploratory soil borings and the well construction details are included with this report.

Soil and Groundwater Sampling at EB4A

Proposed soil boring EB4A and monitoring wells MW4 and MW5 were continuously cored and the soils examined for contamination and lithology. At EB4A, as described above, a soil sample from approximately 11.5 feet below grade and a "grab" groundwater sample were obtained for analysis. At MW4 and MW5, soil samples from approximately 5 feet, 8 feet (capillary fringe) and 11.5 feet below grade (just above the first water-bearing zone identified in some borings) were obtained for analyses.

Relatively undisturbed soil samples were collected by hydraulically advancing a core barrel sampling tool lined with a plastic liner. The plastic liners holding the soil intervals were cut with a hacksaw to isolate the soil samples selected for laboratory analyses. The plastic tubes were sealed with Teflon-lined plastic caps, labeled, and placed in sealed plastic bags. The soil samples were stored in a cooler, on ice, until delivery to a state-certified laboratory. Prior to each use, the drill rods and sample barrel were cleaned by triple rinsing; using a non-phosphate detergent.

The groundwater sample from EB4A was collected by using a disposable bailer. The water sample was decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory.

Soil and Water Disposal

The drill cuttings generated from the wells and soil borings were placed in a DOT-approved 55-gallon steel drum, which was labeled and stored on-site pending proper disposal.

Laboratory Analyses

The soil and groundwater samples were analyzed for TPH as gasoline and TPH as diesel and motor oil; and for benzene, toluene, ethylbenzene, and xylenes (BTEX) and Methyl-tertiary-butyl-ether (MTBE) by EPA Method 8015-Modified and 8020. All of the wells except for MW4, which yielded a limited amount of water, were analyzed for TRPH by EPA Method 418.1, and for Total Dissolved Solids (TDS). A silica gel cleanup was performed for the diesel/motor oil and TRPH analyses. The groundwater samples were also analyzed for volatile organic compounds (VOC) including the fuel oxygenates and lead scavengers by EPA Method 8260. The grab groundwater sample from EB4A was also analyzed for TPH-diesel/motor oil without the silica gel cleanup, for comparison purposes.

The analytical results of the groundwater samples collected from the five monitoring wells indicated no petroleum hydrocarbons concentrations at or above method detection limits except for MTBE and benzene. MTBE was detected in all five wells at concentrations ranging up to 60 ppb (MW-2). Benzene was detected only in MW-4, located directly down-gradient of the former waste oil tank pit, at a concentration of 1.8 ppb. Based on those findings, the extent of benzene in groundwater is considered defined.

The concentrations of MTBE were most elevated in wells MW-2 and newly installed wells MW-4 and MW-5. In wells MW-1 through MW-3, the concentrations were generally similar to the previous sampling event in February 2004, the only other event where MTBE in groundwater was analyzed.

A soil sample and a grab groundwater sample were collected adjacent to previous soil boring EB4 to verify previous findings. The grab water results from new soil boring EB4A were generally similar to those of the previous soil boring. Motor oil was detected at a concentration of 1,200,000 ppb, and a sheen was observed on the water. The silica gel cleanup reduced the concentration of motor oil by approximately 8 percent, and reduced the concentration of diesel by approximately 15 percent. The TRPH concentrations were not affected.

From EB4A, TRPH was detected in soil from approximately 11.5 feet below grade, at about twice the concentrations of the previous finding (3,300 vs. 1,600 ppm). The concentrations of diesel, motor oil, and TRPH were reduced by approximately 23, 33, and 10 percent by the silica gel cleanup, respectively.

To investigate water quality, the groundwater samples from wells MW2 MW5 were also analyzed for total carbonate, carbonate, bicarbonate, sodium, hydroxide, chloride, bromide, and iodide. Well MW4, which yielded limited water for sampling, was analyzed for bromide, chloride, and iodide. All of the wells except MW-4 were also analyzed for TDS.

Hydroxide concentrations were below method detection limits in MW-2 and MW-5. Iodide concentrations were below method detection limits in wells MW-2, MW-4 and MW-5. Bromide was detected in these three wells at concentrations ranging from 0.94 to 1.2 ppm. Chloride was detected in these three wells at concentrations ranging from 64 to 93 ppm. Sodium was detected in MW-2 and MW-5 at concentrations of 160,000 ppm and 130,000 ppm, respectively.

The carbonate concentration of 752 ppm detected in MW-2, consisted entirely of bicarbonate. The carbonate concentration of 48.4 ppm, detected in MW-5, consisted of both carbonate and bicarbonate at concentrations of 26.4 and 22.0 ppm, respectively.

TDS varied between 338 ppm and 959 ppm in wells MW-1 through MW-3 and MW-5.

Surveying, Monitoring and Sampling

On November 17, 2008, wells MW4 and MW5 were developed. The field sheets for the well development are attached to this report. The wells were developed by removing a minimum of ten well casing volumes of water, where possible, and by monitoring parameters of temperature, specific conductivity and pH for stabilization.

On November 21, 2008, groundwater samples were obtained from monitoring wells MW1 through MW5 at the above-referenced site. The wells were also monitored. Well MW4 did not have sufficient water re-charge capacity to allow purging prior to sampling.

The groundwater samples were collected as follows: prior to sampling, the wells were checked for depth to water, and the presence of free product and sheen. No free product or sheen was noted in any of the wells. Monitoring data collected this quarter is summarized on Table 4 and Figure 3. Monitoring data sheets are attached to this report.

Each well was bailed until the volume of water withdrawn was equal to at least three well casing volumes. To assure that a representative groundwater sample was collected, periodic measurements of the temperature, pH and specific conductance were made. The groundwater sample was collected only when the temperature, pH, and/or specific conductance reached relatively constant values.

Water samples were collected using new, disposable bailers. An effort was made to minimize exposure of the samples to air. The water samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. Sample containers were obtained directly from the analytical laboratory. Sampling equipment was cleaned before its use at each sampling location. Thermometers, pH electrodes, and conductivity probes were also cleaned before sampling.

Subsequent to collection, the water samples were immediately stored on ice in an appropriate ice chest. All water samples were transported under Chain-of-Custody procedures to McCampbell Analytical Laboratory in Pittsburg, CA. Excess water resulting from the sampling and cleaning procedures was collected and contained in a labeled 55-gallon drum on-site pending receipt of laboratory analyses.

On December 9, 2008, the new and existing wells were surveyed to Mean Sea Level (msl) by Virgil Chavez Surveying of Vallejo, California. It should be noted that the new survey data for the existing wells differs from the previous data; however, the well array of MW1 through MW3 provided very poor triangulation due to the fact that MW2 and MW3 were in close proximity and distant from MW1.

Sensitive Receptor Study

A well survey was previously conducted at the Property and is summarized in previous reports. In terms of proximity to surface waters, **t**he Property is located on the eastern margins of San Francisco Bay, approximately 3,800 feet east of the bay waters (U.S.G.S. 7.5' "San Leandro" Topographic Quadrangle) and approximately 1,000 feet east of a number of salt evaporators and a canal. Marsh lands lie between the salt evaporators and the bay waters. Therefore, the nearest surface water, located in the assumed down-gradient direction, would be 1,000 feet to the west. Based on the low mobility of the diesel and oil range hydrocarbons in groundwater at the Property, the low permeability of the sediments, and the delineation work completed to date, it does not appear that there would be any impact to these waters.

CONCEPTUAL SITE MODEL

Data from this investigation, and the previous investigations, has been used to develop a Conceptual Site Model (CSM), as summarized below. The CSM documents the site hydrogeology, primary sources, hydrocarbon distribution in soil and groundwater, chemicals of potential concern (COPCs), and identification of potential exposure pathways.

Site Hydrogeology:
Site Geology and Hydrogeology

The Property is located on the eastern margins of San Francisco Bay, approximately 3,800 feet east of the bay waters (U.S.G.S. 7.5' "San Leandro" Topographic Quadrangle) and approximately 1,000 feet east of a number of salt evaporators and a canal. Marsh lands lie between the salt evaporators and the bay waters. The Property lies at approximately ten feet above mean sea level (msl). The measured groundwater elevation at the Property has generally been approximately five to six feet below grade, with first water encountered at approximately 11.5 feet below grade.

According to Helley et al (1979), the Property and vicinity are underlain by fine-grained alluvium (map symbol Qhaf) from the Temescal Formation. The fine-grained alluvium is described as organic rich silt and clay, which grades towards the bay waters into marsh deposits.

The Property is located within the Alameda East Bay Groundwater Basin. The June 1999 *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report* (Beneficial Use Report) states that the current beneficial uses for shallow groundwater in the area are industrial process supply, industrial service supply, and municipal and domestic supply However, the City of Hayward receives its drinking water from the Hetch Hetchy, Calaveras, and San Antonio Reservoirs. The City of Hayward also has four emergency supply wells, screened between 350 and 550 feet below ground surface (bgs) in case of damage to the Hetch Hetchy aqueduct. Also, according to a Risk Assessment Report for 3152 Depot Road, Hayward, CA, prepared by Cambria, dated April 25, 2006, a Halogenated Volatile Organic Compound (HVOC) plume exists in the area, groundwater beneath their site may be brackish due to proximity to the Bay, and "only one industrial well, and several monitoring, abandoned, and remediation wells exist within 2,000-ft of the site [3152 Depot Road]."

Based on the previous subsurface investigations, including six soil borings to approximately sixteen feet in the most recent phase, the subsurface soils consist predominantly of clayey silt (ML). On the most recent drilling event in February 2004, the first water was encountered in the soil borings below 12 feet below grade, and later rose to approximately 6 feet below grade, which correlated with the depth to water measured in wells MW-1 and MW-2. The total depth explored was approximately 16 feet below grade. The first water encountered in four of the soil borings (EB-2 through EB-5) was observed to correspond with a slightly sandier silt zone or a thin (two- to six-inch-thick) sandy silt zone. Over time, the hydraulic gradient at the site has been measured as 0.0017 feet per foot (ft/ft), 0.002 ft/ft, and 0.0009 ft/ft, all essentially flat gradients.

Groundwater is confined or semi-confined and has varied historically in the monitoring wells from 5.17 to 7.11 feet below grade, but is generally 5 to 6 feet below grade. Both tank pits were apparently backfilled with aerated soils that also appear to be of low permeability and appear to be identical to the native soils.

Primary Sources:

Former Waste Oil UST pit

At the former waste oil UST pit, residual heavy hydrocarbons (diesel and motor oil range) concentrations have been identified in soil between approximately 7 and 11.5 feet below grade. TPH-gas, benzene, toluene, ethylbenzene, and xylenes (BTEX), oxygenates and VOC are found in relatively low concentrations or below method detection limits, and are below the Environmental Screening Levels (ESLs) established by the Regional Water Quality Control Board (RWQCB, May 2008).

Significant concentrations of diesel and oil range hydrocarbons are present in grab groundwater samples at the perimeter of the former waste oil tank pit, and a sheen was observed in the water from EB4 and 4A. In monitoring well samples, including MW4 directly down-gradient of the waste oil tank pit, these constituents were not detected at or above method detection limits. Based on the low permeability of the soils, and consistent with the analytical results to date, the extent of these constituents in groundwater appears to be limited to the up-gradient vicinity of the former tank pit.

Gasoline UST Pit

Elevated residual hydrocarbons in soil have not been detected in previous investigations in the vicinity of the former gasoline tank.

A grab groundwater sample collected in 1995 from the northwestern corner of the former gasoline tank pit area indicated elevated concentrations of TPH-gas and BTEX. However, in February 2004, three grab groundwater samples from soil borings EB1, EB2 and EB3 yielded results for all constituents of below method detection limits, except for MTBE, and the nearby cross-gradient well (MW-1) has shown results for all constituents of concentrations below method detection limits, except for MTBE.

Constituents of Potential Concern: Based on the data collected, the primary COPCs at the Property include Total Petroleum Hydrocarbons (TPH) as diesel, and TPH as motor oil. All of the gasoline constituents appear to have naturally attenuated to very low concentrations or below method detection limits. The MTBE and TBA detected in groundwater are considered to be from an off-site up-gradient source.

Petroleum Hydrocarbon Distribution in Soil:

Residual hydrocarbons concentrations in soil above the ESLs consist of diesel and motor oil range hydrocarbons on the perimeter of the former waste oil tank pit, as indicated by the results from EB4/4A, MW4, and previous investigations' soil samples. These results are summarized in Table 1. Based on the relatively low mobility of this range of hydrocarbons, the low permeability soils, and the soil and groundwater analytical data collected to date, these concentrations appear to be confined to the near vicinity of the former waste oil tank pit.

Petroleum Hydrocarbon Distribution in Groundwater:

MTBE was not analyzed in the investigative work performed through 1999; therefore, MTBE and fuel oxygenate data is limited to the February 2004 investigation and this investigation. Six soil boring locations with nine total soil samples at the former waste oil and gasoline UST pits did not detect any MTBE or fuel oxygenates, and these constituents were not detected in soil at or above method detection limits during this investigation. MTBE has been detected in groundwater in all of the monitoring wells on the last two monitoring events, at concentrations ranging up to 60 ppb, and in almost all grab samples from soil borings from the 2004 event, at lower concentrations. TBA has also been detected sporadically at a few locations. As these constituents were not found with the soil data from the waste oil tank pit or with gasoline range hydrocarbons in the same groundwater samples, PIERS considered the constituents to be from an up-gradient off-site source.

As stated above, significant concentrations of diesel and oil range hydrocarbons are present in grab groundwater samples at the perimeter of this tank pit, and a sheen was observed in the water from EB4 and 4A. Benzene has also been detected in grab water samples at this location at concentrations ranging up to 120 ppb (2004), and up to 300 ppb in 1995. In monitoring well samples, including MW4 directly down-gradient of the waste oil tank pit, these constituents were not detected at or above method detection limits. Based on the low permeability of the soils, and consistent with the analytical results to date, the extent of these constituents in groundwater appears to be limited to the up-gradient vicinity of the former waste oil tank pit.

The groundwater analytical results are tabulated on Tables 2 and 3 and are depicted on Figure 4.

Potential Exposure Pathways: To the extent that the Property remains a paved wrecking yard with no drinking water supply wells, direct exposure to COPCs in soil or groundwater are considered incomplete.

The COPCs do not include volatile organic compounds in the vicinity of the building, and therefore potential exposure to COPCs by inhalation is considered incomplete. The only potential exposure to COPCs at the Property would be during any future construction activities if those activities would penetrate the depths of residual COPCs. Such exposure can be addressed with site-specific health and safety plans and related risk management measures.

EVALUATION OF WATER QUALITY AND BENEFICIAL USE

Water is of potential beneficial use unless Total Dissolved Solids (TDS) exceeds 3,000 ppm; conductivity exceeds 5,000 microseimens per cubic centimeter; and water yield is less than 200 gallons per day. The highest concentration of TDS was found in well MW-2, at a concentration of 959 ppm. Conductivity readings after purging in MW1, MW2 and MW5 ranged from 1,027 to 1,553 microseimens per cubic centimeter. Both of these parameters are within the range for consideration of groundwater for potential beneficial use.

In aquifers along the coast, concentrations of dissolved solids commonly exceed the U.S. Environmental Protection Agency (USEPA) Secondary Maximum Contaminant Level (MCL) of 500 ppm. The concentrations of TDS in MW-1 and MW-2 were greater than 500 ppm (773 and 959 ppm, respectively).

Based on the publication "Ground-Water Quality of Coastal Aquifer Systems in the West Coast Basin, Los Angeles County, California", iodide concentrations are relatively low in seawater (0.06 ppm), but concentrated by near-shore marine vegetation, especially kelp. When this material is incorporated into marine sediments, iodide may dissolve and enrich the groundwater; thus higher concentrations provide an indication of contact with marine sediments. Iodide was non-detectable (<10 ppm) in MW-2, MW-4, and MW-5.

In aquifers along the coast, concentrations of chloride commonly exceed the U.S. Environmental Protection Agency (USEPA) Secondary MCL of 250 ppm. The concentrations of chloride detected in MW-2, MW-4, and MW-5 ranged up to 93 ppb, below the secondary MCL.

Based on the publication "Ground-Water Quality of Coastal Aquifer Systems in the West Coast Basin, Los Angeles County, California" seawater has a bromide concentration of 67 ppm. Bromide was detected in MW-2, MW-4 and MW-5 at relatively low concentrations of approximately one ppm.

Total carbonate, carbonate and bicarbonate analyses were performed on groundwater samples from MW2 and MW5. The results differed significantly from each other, with all of the carbonate (752 ppm) consisting of bicarbonate in MW2, and both carbonate and bicarbonate comprising about 48 ppm of total carbonate in MW5.

CONCLUSIONS AND RECOMMENDATIONS

The soil sample from boring EB4A (at 11.5 feet), at the southeast corner of the former waste oil tank pit, which was intended to confirm earlier concentrations found in boring EB4, found concentrations of TPH-diesel of 580 ppm (750 ppm without silica gel cleanup), TPH-Motor oil of 1400 ppm (2100 without sgc), TRPH of 3300 ppm (3700 ppm without sgc) and TPH-gas of 60 ppm. The EB4A grab groundwater sample contained TPH-gas concentrations of 14,000 ppb; TPH-diesel of 490,000 ppb (580,000 ppb without sgc), and TPH-MO of 120,000 ppb (130,000 ppb without sgc). The soil samples from the original EB4 found concentrations of TRPH at 1600 ppm and TPH-gas of 42 ppm at 11.5 feet; the grab groundwater concentrations at EB4 were TPH-diesel of 350,000 ppb, TPH-gas at 1,100 ppb and TRPH at 1600 ppb.

The closest up-gradient soil boring, EB5, at the eastern edge of the waste oil tank pit, detected TPH-gas at 15 ppm and TRPH at 750 ppm in soil at 11.5 feet. The closest down-gradient soil boring, WO-SW at the southwest corner of the waste oil tank pit, detected TRPH at 1,100 ppm, TPH-diesel at 9.4 ppm and TPH-gas at 2 ppm in soil at 7 feet below grade.

During well construction of MW-5 (down-gradient of borings EB4, EB4A, and WO-SW) no concentrations at or above method detection limits were found for any petroleum hydrocarbons constituents in the soil samples collected at approximately 8 feet and 11.5 feet below grade. First encountered water was approximately 12 feet below grade, and rose to approximately 7.73 feet below top of casing. The water sample collected on December 21, 2008 contained no concentrations of hydrocarbon constituents at or above method detection limits, except for MTBE at 20 ppb/18 ppb (EPA Method 8015 vs. 8260).

High soil concentrations of TRPH, TPH-motor oil, TPH-diesel and TPH-gas appear to be concentrated at or around soil borings EB4/EB4A. Soil samples from soil borings EB5 and WO-SW show lower concentrations of these constituents by at least an order of magnitude, and at MW-5 concentrations of these constituents were found below method detection limits. The area of soil contamination appears to have been delineated and confined to the edges of the original waste oil tank excavation pit.

More importantly, even though high levels of these constituents were found in grab groundwater samples from EB4, EB4A, and EB5, none of these constituents have been found in the groundwater monitoring wells, including MW-5, the well directly down-gradient from the highest detected soil and grab groundwater concentrations. Groundwater at approximately 11.5 feet below grade appears to be under confined or semi-confined conditions, as it rises in boreholes to between 6 and 8 feet below grade. The high concentrations in the grab groundwater samples may be an artifact of the sampling method itself, where confined water from below 12 feet rises in the borehole and contacts the TPH concentrations in the soil from the walls of the borehole, or excess sediments are collected with the groundwater sample. All of the monitoring wells have detected MTBE concentrations, which have not been found in the corresponding soil samples, and are considered to come from an off-site, up-gradient source.

The first request for case closure at the site was in 1996, when case worker Amy Leech requested one more round of water sampling and submission of the case closure summary form. PIERS has consistently maintained that the residual soil concentrations of TPH-gas/diesel/motor oil and TRPH are confined to the edges of the former tank pit excavation, that the constituents have not migrated, and that the groundwater has not been affected in the down-gradient direction. The recent additional soil and groundwater investigation have not changed this assessment.

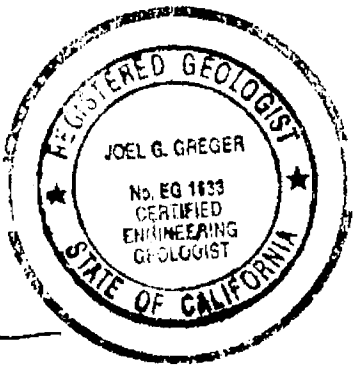
PIERS continues to recommend case closure for this site.

Reporting

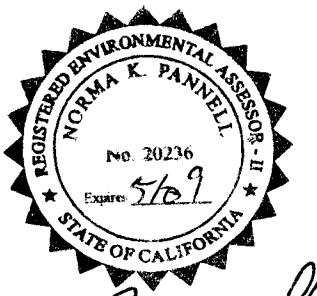
The new and existing monitoring wells will be monitored and sampled for four quarters, per the requirements stated in the ACEH letter, dated July 10, 2008.

Should you have any questions regarding this work plan, 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/Senior Reviewer
REP #5800, REA-II #20236

Attachments
Figures
Tables
Boring Logs and Well Construction Details
Laboratory Analytical Data
Survey Data
Field Monitoring Data Sheets

cc Dennis Parfitt, Regional Water Quality Control Board, S. F. Bay Region; and Mr. Eric Freeberg

ATTACHMENTS

FIGURES

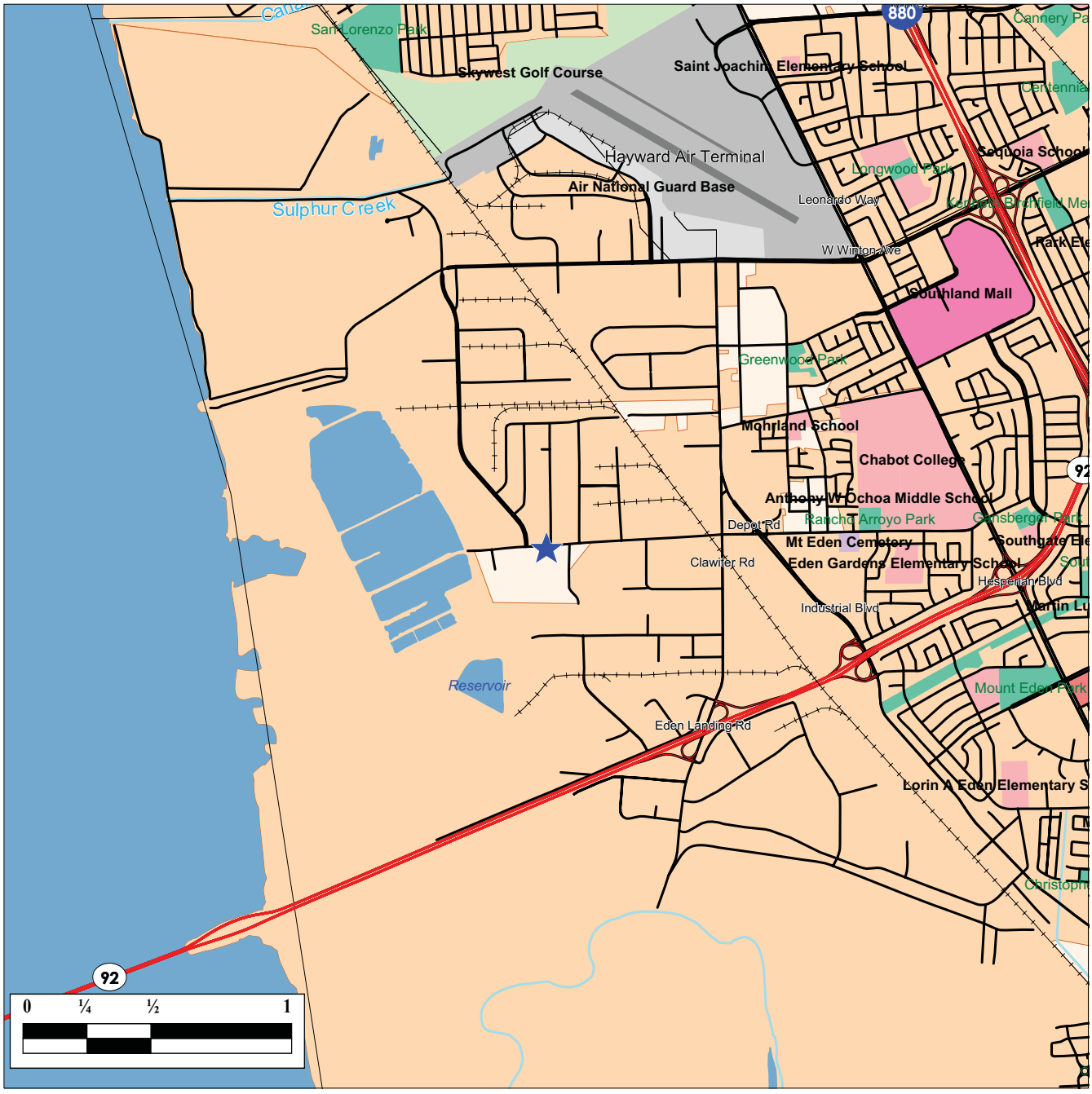


FIGURE 1
PROPERTY VICINITY MAP

3744 Depot Road
Hayward, CA 94545

27-Sep-06

PIERS ENVIRONMENTAL SERVICES, INC. 1330 S. BASCOM AVE. SUITE F, SAN JOSE, CA 95128
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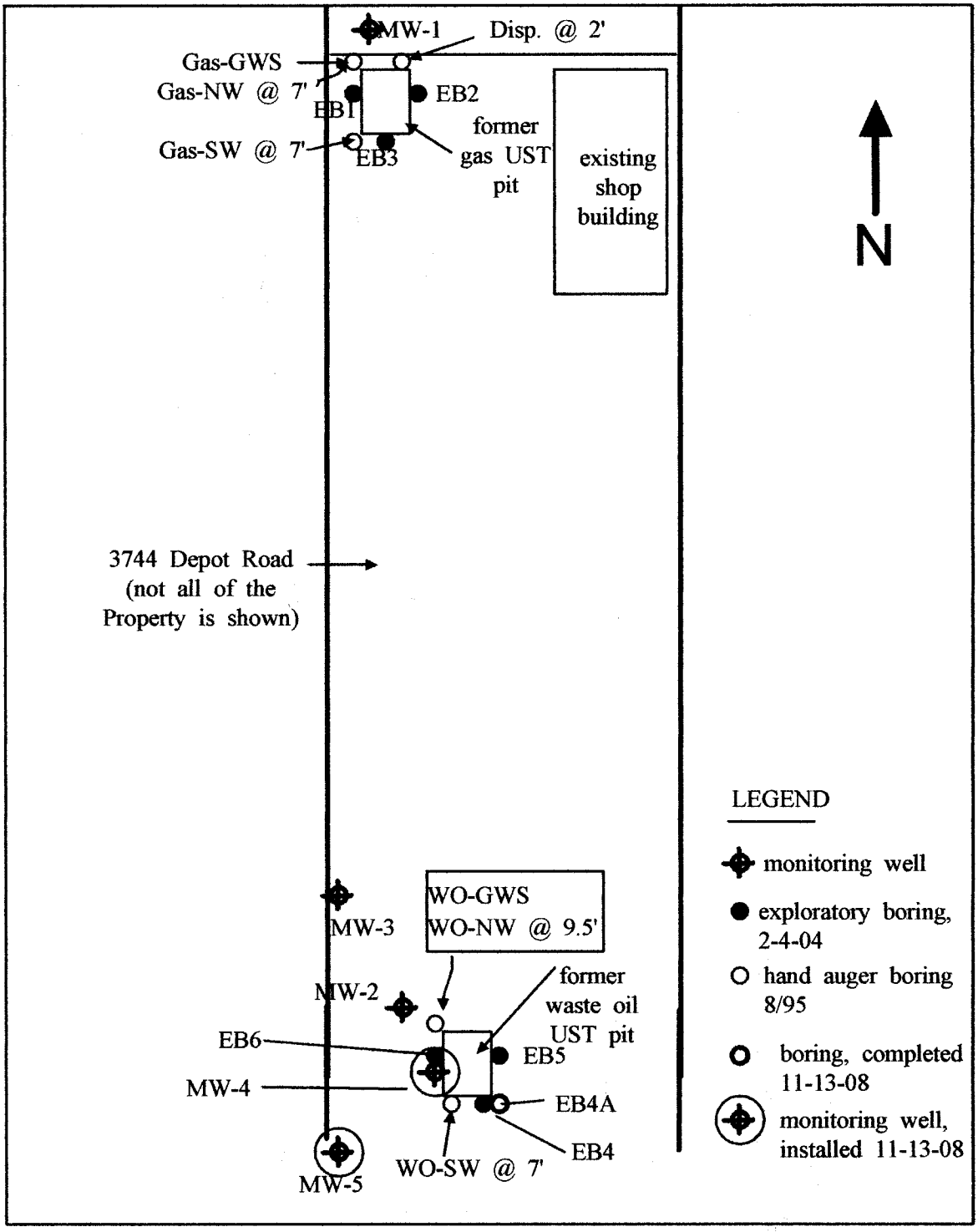
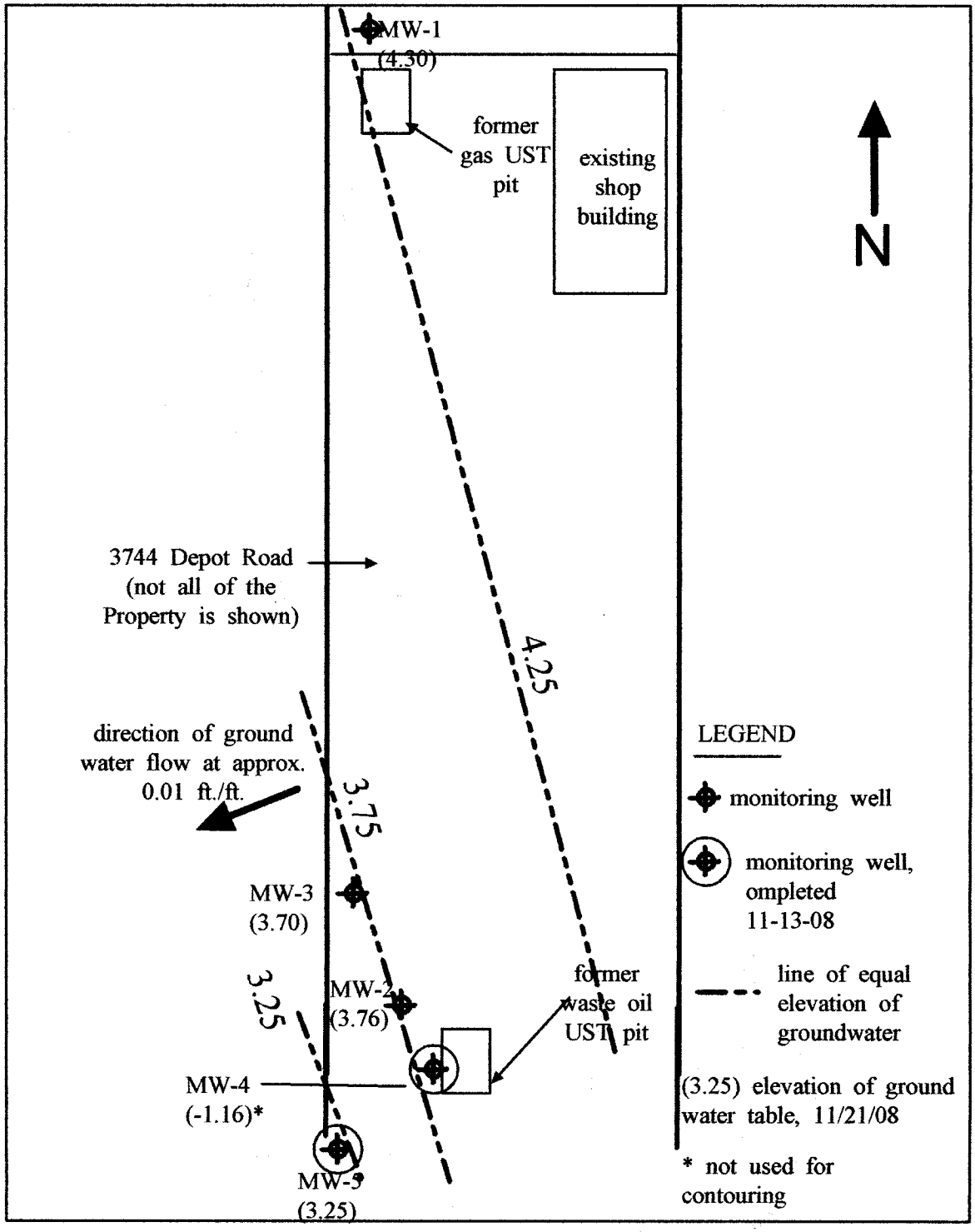


3744 DEPOT ROAD HAYWARD, CA	***FIGURE 2*** ***SITE PLAN***	NOVEMBER 2008 SCALE: 1" = 50'

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



3744 DEPOT ROAD HAYWARD, CA	***FIGURE 3*** ***POTENTIOMETRIC SURFACE MAP***	DECEMBER 2008 SCALE: 1" = 50'

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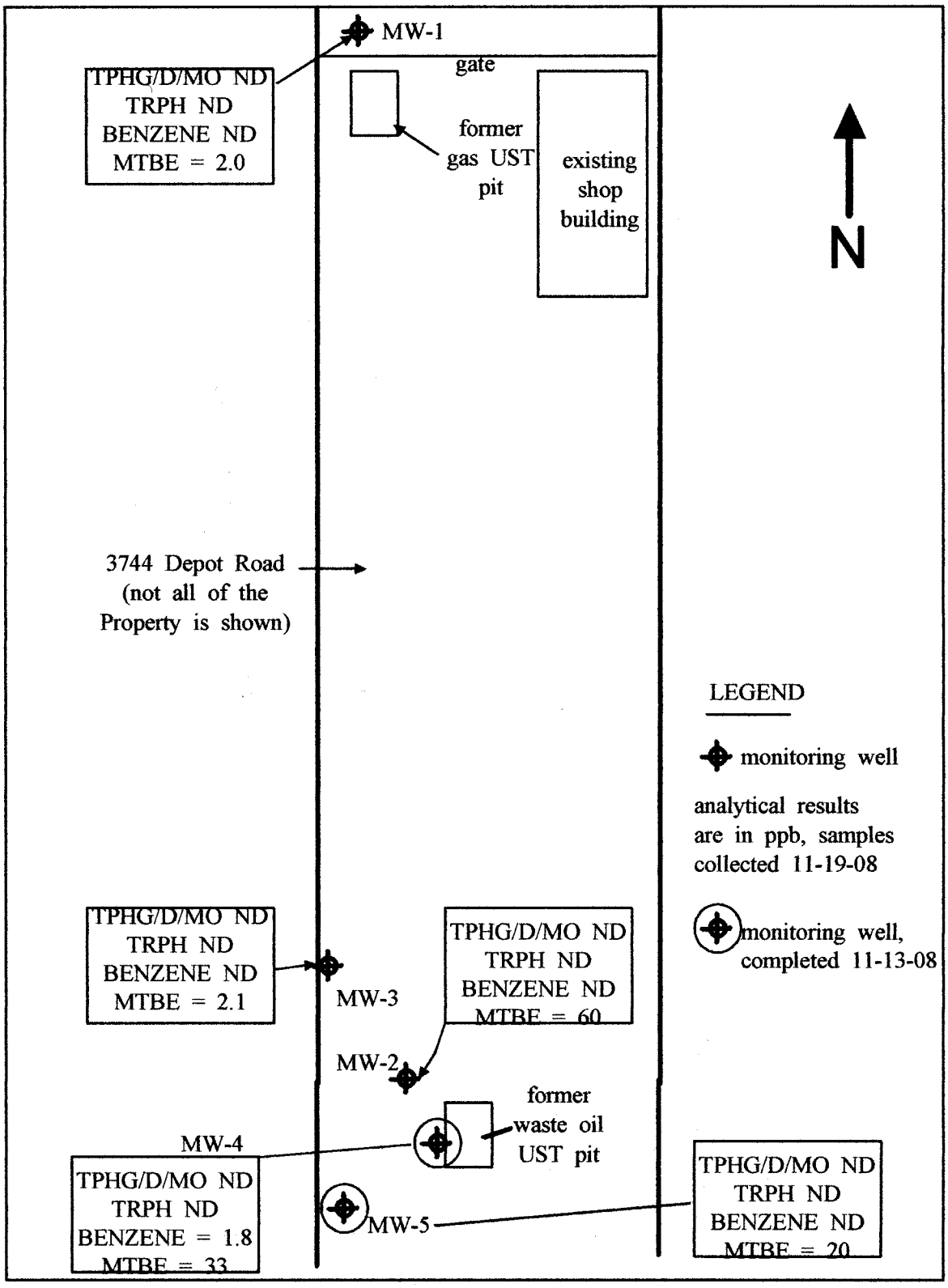


3744 DEPOT ROAD HAYWARD, CA	***FIGURE 4*** ***GROUNDWATER CONTAMINANT CONCENTRATIONS - WELLS***	DECEMBER 2008 SCALE: 1" = 50'

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

TABLES

TABLE 1
Laboratory Analytical Results - Soil
3744 Depot Road, Hayward, CA

Sample No./ Depth	Date	TPHG	TPHD	TPHMO	TRPH	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	VOCs 8240	VOCs 8270
GAS-SW@7	8-29-95	ND	ND	NA	ND	NA	ND	ND	0.014	ND	ND	ND
GAS-NW@7	8-29-95	7.0	ND	NA	ND	NA	0.012	0.014	0.089	1.0	ND	ND
DISP@2	8-29-95	ND	ND	NA	ND	NA	ND	ND	ND	0.073	ND	ND
WO-SW@7	8-29-95	2	9.4	NA	1,100	NA	0.0091	ND	ND	ND	ND	ND
WO-NW@9.5*	8-29-95	2	56	NA	3,300	NA	0.063	0.0093	0.171	0.055	*	*
MW1@5.5	10-28-96	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW2@5.5	10-28-96	ND	ND	NA	52	NA	ND	ND	ND	ND	ND	ND
EB1 (11.7')	2-4-04	<1.0	NA	NA	<50	<0.05	<0.005	<0.005	<0.005	<0.005	NA	NA
EB2 (11.6')	2-4-04	<1.0	NA	NA	<50	<0.05	<0.005	<0.005	<0.005	<0.005	NA	NA
EB3 (11.5')	2-4-04	<1.0	NA	NA	<50	<0.05	<0.005	<0.005	<0.005	<0.005	NA	NA
EB4 (5.5')**	2-4-04	<1.0	NA	NA	<50	<0.05	<0.005	<0.005	<0.005	<0.005	NA	NA
EB4 (11.5')	2-4-04	42	NA	NA	1,600	<0.25	0.067	0.066	0.11	0.92	NA	NA
EB5 (4.5')	2-4-04	<1.0	NA	NA	<50	<0.05	<0.005	<0.005	<0.005	<0.005	NA	NA
EB5 (11.5')	2-4-04	15	NA	NA	750	<0.17	0.033	0.036	<0.017	0.032	NA	NA
EB6 (5.5')	2-4-04	<1.0	NA	NA	<50	<0.05	<0.005	<0.005	<0.005	<0.005	NA	NA
EB6 (11.5')	2-4-04	41	NA	NA	2,000	<0.10	0.081	0.083	0.14	0.064	NA	NA
EB4A (11.5)	11-13-08	60	**580/750***	**1400/2100#**	3300/3700#	<0.25	<0.050	0.053	<0.025	0.29	NA	NA
MW4d8	11-13-08	88	**880**	**2100**	8,900	<0.50	0.073	0.11	0.10	0.083	NA	NA
MW4d11.5	11-13-08	16	230	690	1,400	<0.17	<0.17	<0.17	<0.17	<0.17	NA	NA
MW5d8	11-13-08	<1.0	<1.0	<5.0	<10	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA
MW5d11.5	11-13-08	<1.0	<1.0	<5.0	<10	<0.05	<0.05	<0.05	<0.05	<0.05	NA	NA
ESL - Commercial		400	500	1000	-	5.6	0.38/0.5	9.3	13	1.5	-	-

ND = not detected, NA = not analyzed
Results are in parts per million.

TPHD analyzed by EPA Method 8015M.
TPHG and BTEX analyzed by EPA Method 8020.

= with/without silica gel cleanup (all diesel/mo/TRPH analyses from 11-13-08 performed with silica gel cleanup, EB4A also done without for comparison purposes).

TPHG/D/MO = Total Petroleum Hydrocarbons as gasoline/diesel/motor oil
TRPH = Total Recoverable Petroleum Hydrocarbons, by EPA 418.1 or SW 9071B.
* Acetone was also detected at a concentration of 0.098 ppm, napthalene at 0.825 ppm, and 2-methyl-napthalene at 1.970 ppm.
The commercial ESLs for acetone, napthalene, and 2-methyl-napthalene in shallow soils are 0.24, 4.2 and 0.25 ppm, respectively.
BTEX constituents were also detected by EPA Method 8240 at slightly lower concentrations than those shown (by EPA Method 8020).
ESL = Environmental Screening Level, Tables B/D (RWQCB, May 2008)
** This sample is erronously reported as EB4 (3.5') on the laboratory data sheets.
VOC = Volatile Organic Compounds, by EPA Methods 8240 or 8270

TABLE 2
GROUNDWATER - MONITORING WELLS
Laboratory Analytical Results
3744 Depot Road, Hayward, CA

Well No.	Date	Depth	TPHG (ppb)	TPHD (ppb)	TPHMO (ppb)	TRPH (ppb)	MTBE (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene	Xylenes (ppb)	VOCs 8240	VOCs 8270
MW-1	11-26-96	5.93	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-1	4-29-97	5.96	ND	NA	NA	ND	NA	ND	ND	ND	ND	NA	NA
MW-1	3-30-99	5.46	NA	NA	NA	NA	NA	ND	ND	ND	ND	*	NA
MW-1	2-4-04	5.51	<50	NA	NA	<5.0	3.4	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-1	11-21-08	6.00	<50	<50	<250	<1.0	<5/2.0	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	11-26-96	7.11	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	32**
MW-2	4-29-97	5.61	ND	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND
MW-2	3-30-99	5.63	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	NA
MW-2	2-4-04	5.17	<50	67	NA	<5.0	84	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	11-21-08	7.00	<50	<50	<250	<1.0	60/55#	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-3	11-26-96	6.62	ND	ND	NA	ND	NA	ND	ND	ND	ND	NA	NA
MW-3	2-4-04	overflow	<50	NA	NA	<5.0	8.5	<0.5	<0.5	<0.5	0.79	NA	NA
MW-3	11-21-08	6.70	<50	<50	<250	<1.0	<5/2.1	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-4	11-21-08	12.48	<50	<50	<250	NA	29/33#	1.3/1.8	<0.5	<0.5	<0.5	NA	NA
MW-5	11-21-08	7.73	<50	<50	<250	<1.0	20/18#	<0.5	<0.5	<0.5	<0.5	NA	NA
ESL (comm.)			210	210	210	-	1800	46	130	43	100		

ND = not detected NA = not analyzed Results are in parts per billion (ppb).

TPHD/MO analyzed by EPA Method 8015M. ESL = Environmental Screening Level, F1b (RWQCB, May 2008).

TPHG and BTEX analyzed by EPA Method 8020. BTEX also analyzed by 8260 on 11-21-08 event.

TPHG/D/MO = Total Petroleum Hydrocarbons as gasoline/diesel/motor oil..

TRPH = Total Recoverable Petroleum Hydrocarbons, by EPA 418.1 or SW 9070A.

* 5.5 ppb of bromodichloromethane and 8.4 ppb of dibromochloromethane were detected.

The ESL for these compounds in ground water is 100 ppb.

TABLE 3
GRAB GROUNDWATER SAMPLES
Laboratory Analytical Results
3744 Depot Road, Hayward, CA

Sample No.	Date	TPHG	TPHD	TPHMO	TRPH	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	VOCs 8240	VOCs 8270
GAS-GWS	8-29-95	**43,000**	ND	NA	ND	NA	**300**	**360**	**1,400**	**10,000**	ND	ND
WO-GWS	8-29-95	ND	600	NA	390	NA	**103**	ND	17	21	141*	57**
MW1-GWS	8-29-95	ND	ND	NA	2.9	NA	ND	ND	ND	ND	ND	ND
EB-1 water	2-4-04	<50	NA	NA	<5.0	4.3	<0.5	<0.5	<0.5	<0.5	NA	NA
EB-2 water	2-4-04	<50	NA	NA	<5.0	3.9	<0.5	<0.5	<0.5	<0.5	NA	NA
EB-3 water	2-4-04	<50	NA	NA	<5.0	6.0	<0.5	<0.5	<0.5	<0.5	NA	NA
EB-4 water*	2-4-04	**1,100**	**350,000**	NA	1,600	<2.5	**61**	3.0	11	66	NA	NA
EB-5 water*	2-4-04	**800**	**260,000**	NA	890	7.5 **	**120**	1.9 (8020)	4.4	11	NA	NA
EB-6 water*	2-4-04	75	1,100	NA	<5.0	37	1.1	<0.5	1.1	0.70	NA	NA
EB-4A water	11-13-08	**14,000**	**490000/580000#**	**1200000/1300000#**	1300/1300#	<5.0	**68**	<5.0	<5.0	43	NA	NA
ESL (comm.)		210	210	210		1800	46	130	43	100		

ND = not detected NA = not analyzed

TPHD analyzed by EPA Method 8015M.
TPHG analyzed by EPA Method 8020.
BTEX and MTBE by EPA Method 8260 and/or 8020.

Results are in parts per billion (ppb).
TPHG/D/MO = Total Petroleum Hydrocarbons as gasoline/diesel/motor oil
TRPH = Total Recoverable Petroleum Hydrocarbons, by EPA 418.1 or SW 9070A.
ESL = Environmental Screening Levels, Table F1b, (RWQCB, May 2008)
* Cadmium, chromium, lead and zinc concentrations below method detection limits. Nickel was detected at concentrations of 5.5, 8.5, and 13 ppb in EB-4, EB-5, and EB-6, respectively. The ESL for nickel in groundwater is 8.2 ppb.

** Except for MTBE, fuel oxygenates were non-detectable in EB-1 through EB-6, except in EB-5, where 32 ppb of TBA was detected.

= with/without silica gel cleanup. All previous analyses done without. Additional hydrocarbon constituents detected, see laboratory sheets.

TABLE 4
GROUNDWATER MONITORING DATA
3744 Depot Road, Hayward, CA

Well Number	Date Sampled	Depth to Water	Top of casing Elevation	Groundwater Elevation
MW1	11/25/96	5.93	10.56	4.63
	11/26/96	5.96		4.60
	4/27/97	5.46		5.10
	3/30/99	5.76		4.26
	2/4/04	5.51		5.05
	11/21/08	6.00	10.30	4.30
MW2	11/25/96	6.94	11.27	4.33
	11/26/96	7.11		4.16
	4/27/97	5.61		5.66
	3/30/99	5.63		4.82
	2/4/04	5.17		6.10
	11/21/08	7.00	10.76	3.76
MW3	11/26/96	6.62	10.06	3.44
	4/27/97	5.22		4.84
	3/30/99	5.33		4.73
	2/4/04	overflow		
	11/21/08	6.70	10.40	3.70
MW4	11/21/08	12.48	11.32	-1.16
MW5	11/21/08	7.73	10.98	3.25

TABLE 5
GROUNDWATER MONITORING WELLS - WATER QUALITY DATA
3744 Depot Road, Hayward, CA

Well No.	Date	TDS (ppm)	Total Carbonate (ppm)	Carbonate (ppm)	Bi-Carbonate (ppm)	Hydroxide (ppm)	Bromide (ppm)	Chloride (ppm)	Sodium (ppm)	Iodide (ppm)
MW-1	11-21-08	773	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	11-21-08	959	752	<1.0	752	<1.0	1.2	85	160000	<10
MW-3	11-21-08	338	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	11-21-08	NA	NA	NA	NA	NA	1.1	64	NA	<10
MW-5	11-21-08	388	48.4	26.4	22.0	<1.0	0.94	93	130000	<10

Results are in parts per million (ppm).
TDS = Total Dissolved Solids

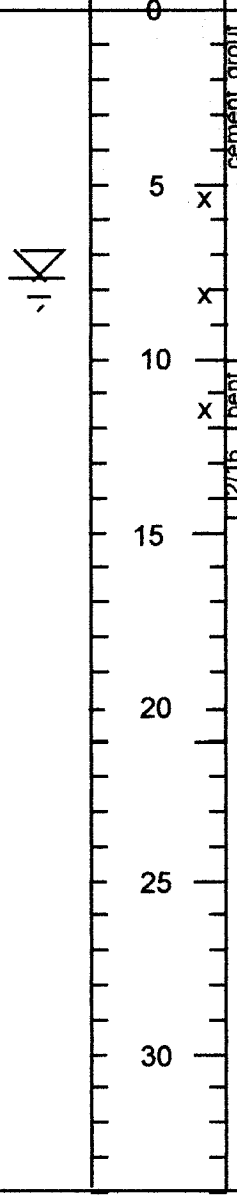
NA = not analyzed

BORING LOGS AND WELL CONSTRUCTION DETAILS

BORING LOG

Project No.	Boring diameter: 3.25", upper 5' 8".	Logged By: Joel Greger PIERS
Project: 3744 Depot Road	Elevation:	Date drilled: 11/13/2008
Boring No. MW4	Drilling Method: Geoprobe	Drilling Company: Vironex

Sample intervals	G.W. level	Sample Depth (ft)	Stratigraphy (USCS)	Description
		0		@0' - 4" of concrete over sand and gravel base.
			ML	@1' - Brown clayey silt (ML), sl. moist-moist, stiff, homogenous, no odor or staining.
MW4 d 5'		5		@5' - Brown clayey silt-silty clay (ML-CL), moist, saturated at 8', few subrounded pebbles to 1/2" diameter.
MW4 d 8'			ML-CL	@8' - strong odor of hydrocarbons.
		10		@9' - color change to dark green. moderate odor below 10'.
MW4 11.5'				@12.8' - 13.8' - few gravels within silt and clay matrix, visible water around gravels, subangular, to 1/2" diameter, color change (matrix) to brown at 13'.
		15		Total Depth - 14'
				Constructed prepack well with 1' diameter PVC casing, 0.010 slots 12-14' with 2/16 sand, bentonite packer 10-12', neat cement grout 0.5' - 12'.
		20		
		25		
		30		

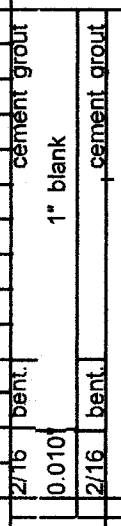


3744 Depot Road Hayward, CA	Figure No: MW4	Date: 11/18/2008 Drawn By: JG

BORING LOG

Project No.	Boring diameter: 3.25", upper 5' 8".	Logged By: Joel Greger PIERS
Project: 3744 Depot Road	Elevation:	Date drilled: 11/13/2008
Boring No. MW5	Drilling Method: Geoprobe	Drilling Company: Vironex

Sample intervals	G.W. level	Sample Depth (ft)	Stratigraphy (USCS)	Description
		0		@0' - 4" of concrete over fill/disturbed native soil.
			ML	@1.5' - Dark brown clayey silt (ML), sl. moist-moist, stiff, homogenous, no odor or staining.
MW5 d 5'		5		@5' - Brown clayey silt-silty clay (ML-CL), moist, saturated at 8'
MW5 d 8'	▽		ML-CL	@10' - color change to olive green,otherwise as above, no odor.
MW5 11.5'		10		@12' free water in pores, no odor or staining, otherwise as above.
		15		Total Depth - 14'
				Constructed prepack well with 1' diameter PVC casing, 0.010 slots 12-14' with 2/16 sand, bentonite packer 10-12', neat cement grout 0.5' - 12'.
		20		
		25		
		30		



3744 Depot Road Hayward, CA	Figure No: MW5	Date: 11/18/2008 Drawn By: JG

LABORATORY ANALYTICAL DATA

McCampbell Analytical, Inc.
"When Quality Counts"

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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: #8223; Depot Road, 3744 Depot Road Hayward	Date Sampled: 11/13/08
		Date Received: 11/13/08
	Client Contact: Joel Greger	Date Reported: 11/20/08
	Client P.O.:	Date Completed: 11/20/08

WorkOrder: 0811444

November 20, 2008

Dear Joel:

Enclosed within are:

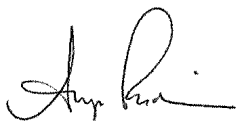
1) The results of the **6** analyzed samples from your project: **#8223; Depot Road, 3744 Depot Road**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

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.

0811444

McCAMPBELL ANALYTICAL, INC.

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PITTSBURG, CA 94565-1701
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Telephone: (877) 252-9262 Fax: (925) 252-9269

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
San Jose CA 95128 E-Mail: piers@pierses.com
Tele: (510) 5955382 Fax: (510) 7871457
Project #: 8223 Project Name: Depot Road
Project Location: 3744 Depot Road Hayward CA
Sampler Signature: Joel [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
EB4A d11.5		11-13-08	8:20 Am	1	liner		x				x			
BB4 water *		↓	8:41 Am	1	2L 3V	x	x				x	x		
mw4 d5'		↓	9:15 Am	1	liner		x				x			
mw4 d8'		↓	9:22 Am	1	↓		x				x			
mw4 d11.5		↓	9:27 Am	1	↓		x				x			
mw5 d5'		↓	10:36 Am	1	↓		x				x			
mw5 d8'		↓	10:44	1	↓		x				x			
Mw5 d11.5'		↓	10:51	1	↓		x				x			

Analysis Request

SAMPLE ID	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015) + motor oil w silica gel cleanup	~~Total Petroleum Oil & Grease (1664 / 5520 E/B&F)~~	Total Petroleum Hydrocarbons (418.1) w/ silica gel cleanup	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) + fuel oxygenates + lead scavengers	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: TPH as diesel (8015) + motor oil "NO SILICA GEL"	Other: TRPH - NO SILICA GEL 418.1	Other	Comments
EB4A d11.5	x	x		x													x	x		
BB4 water *	x	x		x							x						x	x		
mw4 d5'	~~x~~	~~x~~		~~x~~																hold
mw4 d8'	x	x		x																
mw4 d11.5	x	x		x																
mw5 d5'	~~x~~	~~x~~		~~x~~																hold
mw5 d8'	x	x		x																
Mw5 d11.5'	x	x		x																

Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
Joel [signature]	11-13-08	5:01 Pm	Envirotech T.L.
Enviro Tech SR	11/13	1815	Derek Cat[signature]
Derek Cata[signature]	11/13/08	1845	[signature]

ICE/t° 6.8
GOOD CONDITION ✓
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ____

PRESERVATION VOAS O&G METALS OTHER
pH<2

COMMENTS:

* I.D actually reads EB4 water. 11/13/08

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0811444 **ClientCode: PESJ**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Joel Greger
Piers Environmental
1330 S. Bascom Avenue, Ste. F
San Jose, CA 95128
(408) 559-1248 FAX: (408) 559-1224
Email: piers@pierses.com
cc:
PO:
ProjectNo: #8223; Depot Road, 3744 Depot Road Hayward

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

Requested TAT: 5 days

Date Received: **11/13/2008**
Date Printed: **11/21/2008**

					Requested Tests (See legend below)											
Lab ID	**Client ID**	**Matrix**	**Collection Date**	**Hold**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
0811444-001	EB4Ad11.5	Soil	11/13/2008 8:20	☐	A	B				A		A	A		B	
0811444-002	BB4 water	Water	11/13/2008 8:41	☐			D	E	A		A			C		B
0811444-004	MW4d8'	Soil	11/13/2008 9:22	☐		A				A					A	
0811444-005	MW4d11.5	Soil	11/13/2008 9:27	☐		A				A					A	
0811444-007	MW5d8'	Soil	11/13/2008 10:44	☐		A				A					A	
0811444-008	MW5d11.5	Soil	11/13/2008 10:51	☐		A				A					A	

Test Legend:

1	418_S	2	418_SG_S	3	418_SG_W	4	418_W	5	8260B_W
6	G-MBTEX_S	7	G-MBTEX_W	8	PREDF REPORT	9	TPH(DMO)_S	10	TPH(DMO)_W
11	TPH(DMO)WSG_S	12	TPH(DMO)WSG_W						

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Piers Environmental** Date and Time Received: **11/13/08 9:14:58 PM**

Project Name: **#8223; Depot Road, 3744 Depot Road Hayward** Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0811444** Matrix Soil/Water Carrier: Derik Cartan (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: 6.8°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 ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Piers Environmental	Client Project ID: #8223; Depot Road, 3744 Depot Road Hayward	Date Sampled: 11/13/08
		Date Received: 11/13/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/13/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/20/08

Total Recoverable Hydrocarbons without Silica Gel Clean-Up by IR Spectrometry*

Extraction method SW3550_TRH Analytical methods E418.1 Work Order: 0811444

Lab ID	Client ID	Matrix	TRH	DF	% SS
0811444-001A	EB4Ad11.5	S	3700	10	109

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	10	mg/Kg

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

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Angela Rydelius, Lab Manager

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		Date Received: 11/13/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted 11/13/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/14/08

Total Recoverable Petroleum Hydrocarbons with Silica Gel Clean-Up by IR Spectrometry*

Extraction method: SW3550_TRPH Analytical methods: E418.1 Work Order: 0811444

Lab ID	Client ID	Matrix	TRPH	DF	% SS
0811444-001B	EB4Ad11.5	S	3300	10	114
0811444-004A	MW4d8'	S	8900	20	116
0811444-005A	MW4d11.5	S	1400	10	108
0811444-007A	MW5d8'	S	ND	1	117
0811444-008A	MW5d11.5	S	ND	1	95

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	10	mg/Kg

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

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San Jose, CA 95128	Client P.O.:	Date Analyzed 11/14/08

Total Recoverable Petroleum Hydrocarbons with Silica Gel Clean-Up by IR Spectrometry*

Extraction method E418.1 Analytical methods E418.1 Work Order: 0811444

Lab ID	Client ID	Matrix	TRPH	DF	% SS
0811444-002D	BB4 water	W	1300,b6,b1	100	90

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

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present

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		Date Received: 11/13/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/13/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/14/08

Total Recoverable Hydrocarbons without Silica Gel Clean-Up by IR Spectrometry*

Extraction method E418.1 Analytical methods E418.1 Work Order: 0811444

Lab ID	Client ID	Matrix	TRH	DF	% SS
0811444-002E	BB4 water	W	1300,b6,b1	100	---#

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

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present

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		Date Received: 11/13/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/15/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/15/08

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

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0811444

Lab ID	0811444-002A
Client ID	BB4 water
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	68	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	8.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	ND<5.0	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	200	10	0.5	n-Propyl benzene	17	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	30	10	0.5	1,3,5-Trimethylbenzene	27	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes	43	10	0.5

Surrogate Recoveries (%)

%SS1:	101	%SS2:	88
%SS3:	76		

Comments: b6,b1

* 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.

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present

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		Date Received: 11/13/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/13/08-11/19/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/15/08-11/19/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0811444

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	EB4Ad11.5	S	60,d7,d9	ND<0.25	0.050	0.053	ND<0.025	0.29	5	87
002A	BB4 water	W	14,000,b1	ND<250	64	ND<25	ND<25	140	50	114
004A	MW4d8'	S	88,d7,d9	ND<0.50	0.073	0.11	0.10	0.083	10	110
005A	MW4d11.5	S	16,d7	ND<0.17	ND<0.017	ND<0.017	ND<0.017	ND<0.017	3.3	84
007A	MW5d8'	S	ND	ND	ND	ND	ND	ND	1	105
008A	MW5d11.5	S	ND	ND	ND	ND	ND	ND	1	101

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5	0.5	0.5	0.5	0.5	µg/L
	S	1	0.05	0.005	0.005	0.005	0.005	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 w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
d6) one to a few isolated non-target peaks present in the TPH(g) chromatogram
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9) no recognizable pattern

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Angela Rydelius, Lab Manager

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		Date Received: 11/13/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/13/08
San Jose, CA 95128	Client P.O.:	Date Analyzed: 11/20/08

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3550C Analytical methods: SW8015B Work Order: 0811444

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0811444-001A	EB4Ad11.5	S	750,e7,e2	2100	100	89

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:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

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		Date Received: 11/13/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/13/08
San Jose, CA 95128	Client P.O.:	Date Analyzed: 11/20/08

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 0811444

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0811444-002C	BB4 water	W	580,000,e7,e2,b6,b1	1,300,000	500	110

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.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

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1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/13/08
San Jose, CA 95128	Client P.O.:	Date Analyzed: 11/15/08-11/19/08

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C/3630C Analytical methods: SW8015B Work Order: 0811444

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0811444-001B	EB4Ad11.5	S	580,e7,e2	1400	50	93
0811444-004A	MW4d8'	S	880,e7,e2	2100	50	89
0811444-005A	MW4d11.5	S	230,e7,e2	690	10	88
0811444-007A	MW5d8'	S	ND	ND	1	113
0811444-008A	MW5d11.5	S	ND	ND	1	112

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:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

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1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/13/08
San Jose, CA 95128	Client P.O.:	Date Analyzed: 11/20/08

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C Analytical methods: SW8015B Work Order: 0811444

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0811444-002B	BB4 water	W	490,000,e7,e2,b6,b1	1,200,000	500	119

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:

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

DHS ELAP Certification 1644

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QC SUMMARY REPORT FOR E418.1

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 39573 WorkOrder: 0811444

EPA Method: E418.1 **Extraction: SW3550_TRH** **Spiked Sample ID: 0811286-001D**

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
TRPH	380	104	99.6	108	1.90	106	106	0	70 - 130	20	70 - 130	20
%SS:	106	100	102	107	4.31	98	95	2.79	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 39573 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-001A	11/13/08 8:20 AM	11/13/08	11/20/08 11:35 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.

surrogate diluted out of range.

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QA/QC Officer

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QC SUMMARY REPORT FOR E418.1

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 39655 WorkOrder: 0811444

EPA Method: E418.1 **Extraction: SW3550_TRPH** **Spiked Sample ID: 0811444-008A**

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
TRPH	ND	104	103	102	0.938	106	104	2.38	70 - 130	20	70 - 130	20
%SS:	95	100	103	105	1.35	116	116	0	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 39655 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-001B	11/13/08 8:20 AM	11/13/08	11/14/08 4:58 PM	0811444-004A	11/13/08 9:22 AM	11/13/08	11/14/08 5:03 PM
0811444-005A	11/13/08 9:27 AM	11/13/08	11/14/08 5:08 PM	0811444-007A	11/13/08 10:44 AM	11/13/08	11/14/08 5:13 PM
0811444-008A	11/13/08 10:51 AM	11/13/08	11/14/08 4:53 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.

surrogate diluted out of range.

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QC SUMMARY REPORT FOR E418.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39637 WorkOrder: 0811444

EPA Method: E418.1 **Extraction: E418.1** **Spiked Sample ID: 0811449-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TRPH	ND	11.85	95.8	96	0.264	100	100	0	70 - 130	20	70 - 130	20
%SS:	105	10	114	112	1.86	112	116	3.41	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 39637 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-002D	11/13/08 8:41 AM	11/13/08	11/14/08 4:06 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.

surrogate diluted out of range.

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QC SUMMARY REPORT FOR E418.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39637 WorkOrder: 0811444

EPA Method: E418.1 **Extraction: E418.1** **Spiked Sample ID: 0811449-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TRPH	ND	11.85	95.8	96	0.264	100	100	0	70 - 130	20	70 - 130	20
%SS:	105	10	114	112	1.86	112	116	3.41	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 39637 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-002E	11/13/08 8:41 AM	11/13/08	11/14/08 4:11 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.

surrogate diluted out of range.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39658 WorkOrder: 0811444

EPA Method: SW8260B **Extraction: SW5030B** **Spiked Sample ID: 0811447-003C**

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	110	109	1.03	112	108	4.07	70 - 130	30	70 - 130	30
Benzene	ND	10	116	113	2.58	121	112	7.08	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	2.9	50	96.4	104	7.50	96.3	101	4.67	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	107	105	1.59	113	105	7.10	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	112	111	0.954	113	109	4.39	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	128	127	0.518	130	124	4.75	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	89.7	87.6	2.31	94.9	89.8	5.51	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	18	10	124	122	0.614	119	113	5.01	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	127	124	2.78	130	123	4.98	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	106	105	0.922	104	101	2.97	70 - 130	30	70 - 130	30
Toluene	ND	10	116	113	2.74	123	113	7.97	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	108	105	3.49	113	104	7.90	70 - 130	30	70 - 130	30
%SS1:	102	25	101	105	3.06	102	102	0	70 - 130	30	70 - 130	30
%SS2:	87	25	86	87	0.647	88	87	1.83	70 - 130	30	70 - 130	30
%SS3:	88	2.5	91	86	5.38	86	83	3.24	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 39658 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-002A	11/13/08 8:41 AM	11/15/08	11/15/08 1:21 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.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 39653 WorkOrder: 0811444

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **Spiked Sample ID: 0811444-008A**

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	99.1	97.7	1.48	93.3	93.4	0.176	70 - 130	20	70 - 130	20
MTBE	ND	0.10	88.2	86.4	2.16	101	88.3	13.0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	94.2	92.5	1.76	89.6	89	0.739	70 - 130	20	70 - 130	20
Toluene	ND	0.10	85.9	84.7	1.42	88.5	87.3	1.40	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	97.2	96.3	0.937	93.5	92.6	0.963	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	92.4	91.8	0.656	103	102	0.319	70 - 130	20	70 - 130	20
%SS:	101	0.10	90	90	0	84	97	13.9	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 39653 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-001A	11/13/08 8:20 AM	11/13/08	11/19/08 12:21 AM	0811444-004A	11/13/08 9:22 AM	11/13/08	11/19/08 1:21 AM
0811444-005A	11/13/08 9:27 AM	11/13/08	11/19/08 2:51 AM	0811444-007A	11/13/08 10:44 AM	11/13/08	11/15/08 5:26 AM
0811444-008A	11/13/08 10:51 AM	11/13/08	11/15/08 5:56 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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 BatchID: 39645 WorkOrder: 0811444

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **Spiked Sample ID: 0811443-001A**

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	76.2	89.7	16.3	113	97.4	14.4	70 - 130	20	70 - 130	20
MTBE	ND	10	95.7	96.5	0.919	102	110	7.03	70 - 130	20	70 - 130	20
Benzene	ND	10	80.4	85.2	5.83	83.6	91	8.45	70 - 130	20	70 - 130	20
Toluene	ND	10	88.6	94.1	6.03	93.4	101	8.06	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	86.4	92.1	6.38	96	100	4.53	70 - 130	20	70 - 130	20
Xylenes	ND	30	95.3	102	6.78	103	110	6.73	70 - 130	20	70 - 130	20
%SS:	97	10	95	95	0	94	97	2.91	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 39645 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-002A	11/13/08 8:41 AM	11/17/08	11/17/08 6:14 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.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 39650 WorkOrder: 0811444

EPA Method: SW8015B **Extraction: SW3550C** **Spiked Sample ID: 0811441-010A**

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-Diesel (C10-C23)	ND	20	107	106	1.20	107	110	2.13	70 - 130	30	70 - 130	30
%SS:	117	50	118	117	0.894	113	117	2.93	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 39650 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-001A	11/13/08 8:20 AM	11/13/08	11/20/08 2:24 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 SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39656 WorkOrder: 0811444

EPA Method: SW8015B **Extraction: SW3510C** **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-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	106	105	0.344	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	108	107	0.702	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 39656 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-002C	11/13/08 8:41 AM	11/13/08	11/20/08 3:35 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 SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 39654 WorkOrder: 0811444

EPA Method: SW8015B **Extraction: SW3550C/3630C** **Spiked Sample ID: 0811444-008A**

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-Diesel (C10-C23)	ND	20	102	105	3.25	102	101	1.58	70 - 130	30	70 - 130	30
%SS:	112	50	114	111	3.01	111	110	0.879	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 39654 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-001B	11/13/08 8:20 AM	11/13/08	11/18/08 5:56 PM	0811444-004A	11/13/08 9:22 AM	11/13/08	11/18/08 7:06 PM
0811444-005A	11/13/08 9:27 AM	11/13/08	11/18/08 8:24 AM	0811444-007A	11/13/08 10:44 AM	11/13/08	11/19/08 11:00 AM
0811444-008A	11/13/08 10:51 AM	11/13/08	11/15/08 11:51 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 SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39603 WorkOrder: 0811444

EPA Method: SW8015B **Extraction: SW3510C/3630C** **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-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	95.1	95	0.0529	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	106	106	0	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 39603 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811444-002B	11/13/08 8:41 AM	11/13/08	11/20/08 2:24 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.

DHS ELAP Certification 1644

QA/QC Officer

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	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
1330 S. Bascom Avenue, Ste. F		Date Received: 11/24/08
San Jose, CA 95128	Client Contact: Joel Greger	Date Reported: 12/04/08
	Client P.O.:	Date Completed: 12/04/08

WorkOrder: 0811758

December 04, 2008

Dear Joel:

Enclosed within are:

1) The results of the **5** analyzed samples from your project: **#8223; Depot Road,**
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.

0811758

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

CHAIN OF CUSTODY RECORD

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

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

Report To: JOEL GREGOR Bill To: PIERS

Company: PIERS ENVIRONMENTAL

1330 S. BASCOM AVE., SUITE F

SAN JOSE, CA 95128 E-Mail: piers@piersenv.com

Tele: (510) 993-5382 Fax: (510) 787-1457

Project #: 8223 Project Name: DEPOT ROAD

Project Location: 3744 DEPOT RD., HAYWARD CA

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: ICE	HCL	HNO_3	Other
MW-1		11-21-08	1230	7	GL/PL	X					X	X		X
MW-2			1335	8		X					X	X	X	X
MW-3			1250	7		X					X	X		X
MW-4			1600	3	GL	X					X	X		
MW-5			1515	8	GL/PL	X					X	X	X	X

Analysis Request

MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015) W/SILICA GEL CLEANUP	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1) W/SILICA GEL CLEANUP	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	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) + FUELOXYS + LOW0 SURROGATES	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)
X		X		X						X					
X		X		X						X					
X		X		X						X					
X		X								X					
X		X		X						X					

Other: TDS 1601/SM 2540; DISSOLVED CARBONATE & BICARBONATE SM 2320B; SODIUM, CHLORIDE, BROMIDE IODIDE 300.1 & 240.7 (SODIUM)

Comments: Filter Samples for Metals analysis: Yes / No

Cancel W

CALL JOEL GREGOR TO DISCUSS MW-4 SAMPLE VOLUMES

Relinquished By:	Date:	Time:	Received By:
	11/21/08	1730	FRED
FRED	11/24/08	12:38	
Derek Carter	11/24/08	1620	

ICE/t° 3.4

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

PRESERVATION VOAS O&G METALS OTHER + TDS pH<2

COMMENTS:

* IF THERE IS ENOUGH SAMPLE FOR MW-4 THEN RUN DISSOLVED CARBONATE, BICARBONATE, CHLORIDE, BROMIDE, IODIDE, + SODIUM IF POSSIBLE.

* RUN 300.1, 8260, Gas, Diesel FOR Sample #4. per J.G 11/24/08

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0811758 **ClientCode: PESJ**

☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Joel Greger
Piers Environmental
1330 S. Bascom Avenue, Ste. F
San Jose, CA 95128
(408) 559-1248 FAX (408) 559-1224

Email: piers@pierses.com
cc:
PO:
ProjectNo: #8223; Depot Road

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

Requested TAT: 5 days

Date Received: **11/24/2008**
Date Printed: **11/24/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0811758-001	MW-1	Water	11/21/2008 12:30	☐		B	C			A		A	E	D		
0811758-002	MW-2	Water	11/21/2008 13:35	☐	E	B	C	E	F	A	E		E	D		
0811758-003	MW-3	Water	11/21/2008 12:50	☐		B	C			A			E	D		
0811758-004	MW-4	Water	11/21/2008 16:00	☐	D		C			A	D			B		
0811758-005	MW-5	Water	11/21/2008 15:15	☐	E	B	C	E	F	A	E		E	D		

Test Legend:

1	300_1_W	2	418_SG_W	3	8260B+7OXY_W	4	Alka(spe)_W	5	ALKIMET_W
6	G-MBTEX_W	7	IODIDE-300_1_W	8	PREDF REPORT	9	TDS_W	10	TPH(DMO)WSG_W
11		12							

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Piers Environmental**

Date and Time Received: **11/24/08 8:46:16 PM**

Project Name: **#8223; Depot Road**

Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0811758** Matrix Water

Carrier: Derik Cartan (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: 3.4°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 ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/26/08-11/27/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/26/08-11/27/08

Inorganic Anions by IC*

Extraction method: E300.1 Analytical methods: E300.1 Work Order: 0811758

Lab ID	Client ID	Matrix	Bromide	Chloride	DF	% SS
0811758-002E	MW-2	W	1.2	85	1	101
0811758-004D	MW-4	W	1.1	64	1	---#
0811758-005E	MW-5	W	0.94	93	1	103

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.1	0.1	mg/L
	S	NA	NA	mg/Kg

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as $NO3^-$] = 4.4286 x [Nitrate as N]

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/24/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/25/08

Total Recoverable Petroleum Hydrocarbons with Silica Gel Clean-Up by IR Spectrometry*

Extraction method E418.1 Analytical methods E418.1 Work Order: 0811758

Lab ID	Client ID	Matrix	TRPH	DF	% SS
0811758-001B	MW-1	W	ND	1	102
0811758-002B	MW-2	W	ND	1	104
0811758-003B	MW-3	W	ND	1	106
0811758-005B	MW-5	W	ND	1	107

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

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

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/26/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/26/08

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0811758

Lab ID	0811758-001C
Client ID	MW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	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 Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	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	Ethanol	ND	1.0	50
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
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	2.0	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	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	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:	93	%SS2:	80
%SS3:	81		

Comments:

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

c1) estimated value due to low/high surrogate recovery, caused by matrix interference

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/26/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/26/08

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0811758

Lab ID	0811758-002C
Client ID	MW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<20	2.0	10	tert-Amyl methyl ether (TAME)	ND<1.0	2.0	0.5
Benzene	ND<1.0	2.0	0.5	Bromobenzene	ND<1.0	2.0	0.5
Bromochloromethane	ND<1.0	2.0	0.5	Bromodichloromethane	ND<1.0	2.0	0.5
Bromoform	ND<1.0	2.0	0.5	Bromomethane	ND<1.0	2.0	0.5
2-Butanone (MEK)	ND<4.0	2.0	2.0	t-Butyl alcohol (TBA)	7.4	2.0	2.0
n-Butyl benzene	ND<1.0	2.0	0.5	sec-Butyl benzene	ND<1.0	2.0	0.5
tert-Butyl benzene	ND<1.0	2.0	0.5	Carbon Disulfide	ND<1.0	2.0	0.5
Carbon Tetrachloride	ND<1.0	2.0	0.5	Chlorobenzene	ND<1.0	2.0	0.5
Chloroethane	ND<1.0	2.0	0.5	Chloroform	ND<1.0	2.0	0.5
Chloromethane	ND<1.0	2.0	0.5	2-Chlorotoluene	ND<1.0	2.0	0.5
4-Chlorotoluene	ND<1.0	2.0	0.5	Dibromochloromethane	ND<1.0	2.0	0.5
1,2-Dibromo-3-chloropropane	ND<0.40	2.0	0.2	1,2-Dibromoethane (EDB)	ND<1.0	2.0	0.5
Dibromomethane	ND<1.0	2.0	0.5	1,2-Dichlorobenzene	ND<1.0	2.0	0.5
1,3-Dichlorobenzene	ND<1.0	2.0	0.5	1,4-Dichlorobenzene	ND<1.0	2.0	0.5
Dichlorodifluoromethane	ND<1.0	2.0	0.5	1,1-Dichloroethane	ND<1.0	2.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.0	2.0	0.5	1,1-Dichloroethene	ND<1.0	2.0	0.5
cis-1,2-Dichloroethene	ND<1.0	2.0	0.5	trans-1,2-Dichloroethene	ND<1.0	2.0	0.5
1,2-Dichloropropane	ND<1.0	2.0	0.5	1,3-Dichloropropane	ND<1.0	2.0	0.5
2,2-Dichloropropane	ND<1.0	2.0	0.5	1,1-Dichloropropene	ND<1.0	2.0	0.5
cis-1,3-Dichloropropene	ND<1.0	2.0	0.5	trans-1,3-Dichloropropene	ND<1.0	2.0	0.5
Diisopropyl ether (DIPE)	ND<1.0	2.0	0.5	Ethanol	ND<100	2.0	50
Ethylbenzene	ND<1.0	2.0	0.5	Ethyl tert-butyl ether (ETBE)	ND<1.0	2.0	0.5
Freon 113	ND<20	2.0	10	Hexachlorobutadiene	ND<1.0	2.0	0.5
Hexachloroethane	ND<1.0	2.0	0.5	2-Hexanone	ND<1.0	2.0	0.5
Methanol	ND<1000	2.0	500	Isopropylbenzene	ND<1.0	2.0	0.5
4-Isopropyl toluene	ND<1.0	2.0	0.5	Methyl-t-butyl ether (MTBE)	55	2.0	0.5
Methylene chloride	ND<1.0	2.0	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.0	2.0	0.5
Naphthalene	ND<1.0	2.0	0.5	n-Propyl benzene	ND<1.0	2.0	0.5
Styrene	ND<1.0	2.0	0.5	1,1,1,2-Tetrachloroethane	ND<1.0	2.0	0.5
1,1,2,2-Tetrachloroethane	ND<1.0	2.0	0.5	Tetrachloroethene	ND<1.0	2.0	0.5
Toluene	ND<1.0	2.0	0.5	1,2,3-Trichlorobenzene	ND<1.0	2.0	0.5
1,2,4-Trichlorobenzene	ND<1.0	2.0	0.5	1,1,1-Trichloroethane	ND<1.0	2.0	0.5
1,1,2-Trichloroethane	ND<1.0	2.0	0.5	Trichloroethene	ND<1.0	2.0	0.5
Trichlorofluoromethane	ND<1.0	2.0	0.5	1,2,3-Trichloropropane	ND<1.0	2.0	0.5
1,2,4-Trimethylbenzene	ND<1.0	2.0	0.5	1,3,5-Trimethylbenzene	ND<1.0	2.0	0.5
Vinyl Chloride	ND<1.0	2.0	0.5	Xylenes	ND<1.0	2.0	0.5

Surrogate Recoveries (%)

%SS1:	91	%SS2:	79
%SS3:	79		

Comments:

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

c1) estimated value due to low/high surrogate recovery, caused by matrix interference

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/26/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/26/08

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0811758

Lab ID	0811758-003C
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	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 Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	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	Ethanol	ND	1.0	50
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
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	2.1	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	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	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:	92	%SS2:	80
%SS3:	79		

Comments:

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

c1) estimated value due to low/high surrogate recovery, caused by matrix interference

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/26/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/26/08

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0811758

Lab ID	0811758-004C
Client ID	MW-4
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	79	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	1.8	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)	10	1.0	2.0	t-Butyl alcohol (TBA)	12	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 Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	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	Ethanol	61	1.0	50
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	1.3	1.0	0.5
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	33	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	1.7	1.0	0.5
Naphthalene	ND	1.0	0.5	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	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:	---#	%SS2:	80
%SS3:	77		

Comments: c1

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

c1) estimated value due to low/high surrogate recovery, caused by matrix interference

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/27/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/27/08

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0811758

Lab ID	0811758-005C
Client ID	MW-5
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	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)	3.1	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 Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	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	Ethanol	ND	1.0	50
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
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	18	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	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	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:	93	%SS2:	81
%SS3:	81		

Comments:

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

c1) estimated value due to low/high surrogate recovery, caused by matrix interference

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/25/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/25/08

Total & Speciated Alkalinity as Calcium Carbonate*

Extraction method SM2320B Analytical methods SM2320B Work Order: 0811758

Lab ID	Client ID	Matrix	Total*	Carbonate*	Bicarbonate*	Hydroxide*	DF
002E	MW-2	W	752	ND	752	ND	1
005E	MW-5	W	48.4	26.4	22.0	ND	1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	1.0	1.0	1.0	1.0	mg CaCO3/L
	S	NA	NA	NA	NA	mg/Kg

*water samples are reported in mg calcium carbonate/L. Hydroxide, Carbonate & Bicarbonate alkalinity measure @ end-point of pH = 8.3 & 4.5 per SM2320B.

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		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/24/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 12/01/08

ICP Metals*

Extraction method E200.7 Analytical methods E200.7 Work Order: 0811758

Lab ID	Client ID	Matrix	Extraction Type	Sodium	DF	% SS
0811758-002F	MW-2	W	TOTAL	160,000	10	100
0811758-005F	MW-5	W	TOTAL	130,000	10	87

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	500	µg/L
	S	TOTAL	NA	mg/Kg

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

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/25/08-12/04/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 11/25/08-12/04/08

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0811758

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND	ND	ND	ND	ND	ND	1	100
002A	MW-2	W	ND	60	ND	ND	ND	ND	1	103
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	101
004A	MW-4	W	ND	29	1.3	ND	ND	ND	1	95
005A	MW-5	W	ND	20	ND	ND	ND	ND	1	103

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	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:

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 12/03/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 12/03/08

Iodide by IC*

Extraction method E300.1 Analytical methods E300.1 Work Order: 0811758

Lab ID	Client ID	Matrix	Iodide	DF	% SS
0811758-002E	MW-2	W	ND<10,a1	500	N/A
0811758-004D	MW-4	W	ND<10,a1	500	N/A
0811758-005E	MW-5	W	ND<10,a1	500	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	0.02	mg/L
	S	NA	NA

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as $NO3^{-}$] = 4.4286 x [Nitrate as N]

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

a1) sample diluted due to matrix interference

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/30/08
San Jose, CA 95128	Client P.O.:	Date Analyzed 12/01/08

Total Dissolved Solids*

Analytical Method: SM2540C Work Order: 0811758

Lab ID	Client ID	Matrix	Total Dissolved Solids	DF
0811758-001E	MW-1	W	773	1
0811758-002E	MW-2	W	959	1
0811758-003E	MW-3	W	338	1
0811758-005E	MW-5	W	388	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 mg/L	
	S	NA	

* water samples reported in mg/L.

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Piers Environmental	Client Project ID: #8223; Depot Road	Date Sampled: 11/21/08
		Date Received: 11/24/08
1330 S. Bascom Avenue, Ste. F	Client Contact: Joel Greger	Date Extracted: 11/24/08
San Jose, CA 95128	Client P.O.:	Date Analyzed: 11/25/08-12/01/08

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C Analytical methods: SW8015B Work Order: 0811758

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS
0811758-001D	MW-1	W	ND	ND	1	117
0811758-002D	MW-2	W	ND	ND	1	116
0811758-003D	MW-3	W	ND	ND	1	114
0811758-004B	MW-4	W	ND	ND	1	84
0811758-005D	MW-5	W	ND	ND	1	113

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:

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QC SUMMARY REPORT FOR E418.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39764 WorkOrder: 0811758

EPA Method: E418.1 **Extraction: E418.1** **Spiked Sample ID: 0811758-002B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TRPH	ND	11.85	107	106	0.713	101	102	1.17	70 - 130	20	70 - 130	20
%SS:	104	10	115	113	1.23	112	114	1.94	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 39764 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811758-001B	11/21/08 12:30 PM	11/24/08	11/25/08 10:48 AM	0811758-002B	11/21/08 1:35 PM	11/24/08	11/25/08 10:43 AM
0811758-003B	11/21/08 12:50 PM	11/24/08	11/25/08 10:53 AM	0811758-005B	11/21/08 3:15 PM	11/24/08	11/25/08 10:58 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 conta 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.

surrogate diluted out of range.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
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Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39884 WorkOrder 0811758

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0811760-004B**

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	91.2	91.1	0.0900	123	122	0.153	70 - 130	30	70 - 130	30
Benzene	ND	10	97.3	98.2	0.901	119	121	1.38	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	87	89	2.24	105	106	0.575	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	103	103	0	117	117	0	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	106	109	2.19	118	119	0.223	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	104	105	0.759	120	122	1.90	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	71.4	71.6	0.260	93.3	94.7	1.41	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	93.4	95.2	1.90	111	113	1.79	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	101	101	0	115	117	1.32	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	88.6	91	2.61	114	114	0	70 - 130	30	70 - 130	30
Toluene	ND	10	107	110	3.34	121	121	0	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	108	112	3.12	126	126	0	70 - 130	30	70 - 130	30
%SS1:	93	25	91	92	1.18	98	98	0	70 - 130	30	70 - 130	30
%SS2:	79	25	82	81	0.925	93	91	1.23	70 - 130	30	70 - 130	30
%SS3:	78	2.5	71	73	1.94	101	103	1.73	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 39884 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811758-001C	11/21/08 12:30 PM	11/26/08	11/26/08 9:19 PM	0811758-002C	11/21/08 1:35 PM	11/26/08	11/26/08 10:05 PM
0811758-003C	11/21/08 12:50 PM	11/26/08	11/26/08 10:48 PM	0811758-004C	11/21/08 4:00 PM	11/26/08	11/26/08 11:32 PM
0811758-005C	11/21/08 3:15 PM	11/27/08	11/27/08 12:14 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Alkalinity **Matrix: W** **WorkOrder: 0811758**

Method Name: SM2320B Units mg CaCO3/L BatchID: 39886

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
0811758-002E	752	1	751	1	0.16	<20
0811758-005E	48.4	1	49.3	1	1.9	<20

BATCH 39886 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811758-002E	11/21/08 1:35 PM	11/25/08	11/25/08 6:03 PM	0811758-005E	11/21/08 3:15 PM	11/25/08	11/25/08 6:13 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

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QA/QC Officer

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QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39887 WorkOrder 0811758

EPA Method E200.7 **Extraction E200.7** **Spiked Sample ID: 0811758-005F**

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
Sodium	130,000	10000	NR	NR	NR	98.4	97.3	1.09	75 - 125	20	80 - 120	20
%SS:	87	750	96	106	10.3	106	111	4.56	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 39887 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811758-002F	11/21/08 1:35 PM	11/24/08	12/01/08 11:04 AM	0811758-005F	11/21/08 3:15 PM	11/24/08	12/01/08 11:39 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 applicable to this method.

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 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39882 WorkOrder 0811758

EPA Method SW8021B/8015Cm **Extraction SW5030B** **Spiked Sample ID: 0811760-003A**

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	94.7	92.1	2.73	84.7	94.2	10.6	70 - 130	20	70 - 130	20
MTBE	ND	10	97	95.8	1.27	87.7	89	1.54	70 - 130	20	70 - 130	20
Benzene	ND	10	93	93.5	0.495	91.6	103	11.3	70 - 130	20	70 - 130	20
Toluene	ND	10	92.1	93.2	1.21	101	115	12.3	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	96.2	96.8	0.681	100	113	11.9	70 - 130	20	70 - 130	20
Xylenes	ND	30	106	106	0	109	123	12.6	70 - 130	20	70 - 130	20
%SS:	102	10	94	94	0	107	105	1.86	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 39882 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811758-001A	11/21/08 12:30 PM	11/25/08	11/25/08 10:38 PM	0811758-002A	11/21/08 1:35 PM	11/25/08	11/25/08 10:08 PM
0811758-003A	11/21/08 12:50 PM	11/25/08	11/25/08 6:37 PM	0811758-004A	11/21/08 4:00 PM	12/04/08	12/04/08 8:55 AM
0811758-005A	11/21/08 3:15 PM	11/25/08	11/25/08 9:08 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.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39891 WorkOrder: 0811758

EPA Method: E300.1 **Extraction: E300.1** **Spiked Sample ID: 0811758-002e**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Iodide	ND<10	0.10	NR	NR	NR	108	104	4.19	85 - 115	15	85 - 115	15

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 39891 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811758-002E	11/21/08 1:35 PM	12/03/08	12/03/08 6:22 PM	0811758-004D	11/21/08 4:00 PM	12/03/08	12/03/08 6:45 PM
0811758-005E	11/21/08 3:15 PM	12/03/08	12/03/08 7:07 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 applicable to this method.

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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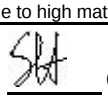
QA/QC Officer

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Total Dissolved Solids **Matrix: W** **WorkOrder: 0811758**

Method Name: SM2540C Units mg/L BatchID: 39885

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
0811758-001E	773	1	765	1	1.04	<20
0811758-002E	959	1	943	1	1.68	<20
0811758-003E	338	1	357	1	5.47	<20
0811758-005E	388	1	395	1	1.79	<20

BATCH 39885 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811758-001E	11/21/08 12:30 PM	11/30/08 12	2/01/08 12:20 PM	0811758-002E	11/21/08 1:35 PM	11/30/08 12	2/01/08 12:50 PM
0811758-003E	11/21/08 12:50 PM	11/30/08 12	2/01/08 12:30 PM	0811758-005E	11/21/08 3:15 PM	11/30/08 12	2/01/08 12:40 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39779 WorkOrder 0811758

EPA Method SW8015B **Extraction SW3510C/3630C** **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-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	91.6	91.8	0.204	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	109	109	0	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 39779 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0811758-001D	11/21/08 12:30 PM	11/24/08	11/27/08 9:44 AM	0811758-002D	11/21/08 1:35 PM	11/24/08	11/27/08 8:37 AM
0811758-003D	11/21/08 12:50 PM	11/24/08	11/25/08 7:54 PM	0811758-004B	11/21/08 4:00 PM	11/24/08	12/01/08 6:52 PM
0811758-005D	11/21/08 3:15 PM	11/24/08	11/26/08 12:22 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 1644

QA/QC Officer

SURVEY DATA

Virgil Chavez Land Surveying
721 Tuolumne Street
Vallejo, California 94590
(707) 553-2476 • Fax (707) 553-8698

December 9, 2008
Project No.: 2849-05

Joel Greger
Piers Environmental Services, Inc.
1330 S. Bascom Avenue, Suite F
San Jose, CA 95128

Subject: Monitoring Well Survey
3744 Depot Road
Hayward, CA

Dear Joel:

This is to confirm that we have proceeded at your request to survey the monitoring well locations at the above referenced location. The survey was completed on December 5, 2008. The benchmark for this survey was a monument disk at the intersection of Depot Road and Clawiter. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83).
Benchmark Elevation 24.12 feet (NGVD 29).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				10.90	RIM MW-1
37.6378134	-122.1320267	2058825.34	6089128.84	10.30	TOC MW-1
				11.57	RIM MW-2
37.6369296	-122.1318003	2058502.45	6089188.76	10.76	TOC MW-2
				11.16	CONC MW-3
37.6370426	-122.1319168	2058544.17	6089155.77	10.40	TOC MW-3
				11.67	RIM MW-4
37.6368719	-122.1317805	2058481.33	6089194.12	11.32	TOC MW-4
				11.30	RIM MW-5
37.6368148	-122.1318900	2058461.08	6089162.07	10.98	TOC MW-5

Sincerely,

Virgil D. Chavez, PLS 6323

FIELD MONITORING DATA SHEETS

Dysert Environmental, Inc.

FLUID-LEVEL MONITORING DATA

Project Name: _____ Date: 11-17-08 MONDAY

Project/Site Location: 3744 DEPOT ROAD, HAYWARD CA

Technician: R. VASQUEZ Method: ELECTRONIC

Boring/ Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Comments
MW-4	12.63	NONE DETECTED	NONE DETECTED	13.41	(A) 1107 H2O IN WELL BOX BELOW TOC
MW-5	7.37	NONE DETECTED	NONE DETECTED	13.40	(A) H2O IN WELL BOX BELOW TOC

Measurements referenced to top of well casing. NORTH SHARPIE MARK Page 1 of 1

Well ID: MW-4 WELL DEVELOPMENT

DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA

Dysert Environmental, Inc.

PROJECT:
DATE: 11-17-08
SITE LOCATION: 3744 DEPOT RD
CITY: HAYWARD STATE: CA

PURGE DEVICE

circle one submersible pump (peristaltic pump) bladder pump disposable bailer

SAMPLING DEVICE

circle one	bladder pump	peristaltic pump	disposable bailer		discrete sampler	other	
casing diameter (inches)	circle one	0.75	(1)	1.5	2	4	6
casing volumes (gallons)	circle one	0.02	(0.05)	0.15	0.2	0.7	1.52

WELL DATA

SAMPLER/S: R. VASQUEZ
WELL NUMBER / FIELD POINT ID: MW-4
A. TOTAL WELL DEPTH: 13.41
B. DEPTH TO WATER: 12.63
C. WATER HEIGHT (A-B): 0.78
D. WELL CASING DIAMETER: 1
E. CASING VOLUME: 0.05
F. SINGLE CASE VOLUME (CxE): ~~0.04~~ 0.04
G. CASE VOLUME (s) (CxEx 10): 0.39
H: 80% RECHARGE LEVEL (F+B): N/A

PURGE DATA

START TIME: 1127
FINISH TIME: 1220

RECHARGE / SAMPLE TIME

DEPTH TO WATER: N/A TIME MEASURED: N/A
GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): circle one YES NO N/A
SAMPLE TIME: N/A DEPTH TO WATER: N/A
SAMPLE APPEARANCE / ODOR: N/A
TOTAL GALLONS PURGED: ~5 GALLON

WELL FLUID PARAMETERS

CASE VOLUME	1	2	3	4	5	6	7	8
pH	12.02	12.05	12.06	12.10	11.98	12.02		
TEMP in °C	24.3	24.4	24.5	23.8	24.6	25.0		
COND / sc	12.44	11.80	11.73	11.44	10.99	11.02		
DTW	12.63	→	→	→	→	13.41		
Pump Depth	13FT	13.41	→	→	→	→		
Pump Rate								

NOTES:

Dysert Environmental, Inc.

FLUID-LEVEL MONITORING DATA

Project Name: _____ Date: 11/21/08

Project/Site Location: 3744 Depot Rd Hayward CA

Technician: K. Arnesen Method: Electronic

Boring/ Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Comments
MW-1	6.80			15.05	@1435
MW-2	7.00			15.25	@1440
MW-3	6.70			/	@1437
MW-4	12.46			13.35	@1045 POSITIVE PRESSURE IN WELL
MW-5	7.73			13.35	@1042 POSITIVE PRESSURE IN WELL

Measurements referenced to top of well casing. None

Page 1 of 1

McCAMPBELL ANALYTICAL, INC.

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

CHAIN OF CUSTODY RECORD

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

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

Report To: JOEL GREGOR Bill To: PIERS
Company: PIERS ENVIRONMENTAL
1330 S. BASCOM AVE., SUITE F
SAN JOSE CA 95128 E-Mail: piers@piersenv.com
Tele: (510) 593-5382 Fax: (510) 787-1457
Project #: 8223 Project Name: DEPOT ROAD
Project Location: 3744 DEPOT RD, HAYWARD CA
Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	Sampling Date	Sampling Time	# Containers	Type Containers	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Sludge	Matrix: Other	Preserved: ICE	Preserved: HCL	Preserved: HNO_3	Preserved: Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015) W/SILICA GEL CLEANUP	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1) W/SILICA GEL CLEANUP	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	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) + NAPHTHALENE LOW LEVEL	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: TDS 160.1/SM 2540	Other: ANIONS (CARBONATE, BICARBONATE, SULFATE, NITRATE)	Other: SODIUM, CHLORIDE, BROMIDE, IODIDE	Comments (Filter Samples for Metals analysis: Yes / No)
MW-1		11-21-08	1230	7	[illegible]	X					X	X		X	X		X		X						X						X			
MW-2		↓	1335	8	↓	X					X	X	X	X	X		X		X						X						X	X	X	
MW-3		↓	1250	7	↓	X					X	X		X	X		X		X						X						X			
(*) MW-4		↓	1400	3	G	X					X	X			X		X								X						X	X	X	CALL JOEL GREGOR TO DISCUSS MW-4 SAMPLE VOLUMES
MW-5		↓	1515	8	G/V	X					X	X	X	X	X		X		X						X						X	X	X	

Relinquished By:	Date:	Time:	Received By:
[signature]	11/21/08	1730	[signature]
[signature]	11/24/08		

ICE/t°______
GOOD CONDITION______
HEAD SPACE ABSENT______
DECHLORINATED IN LAB______
APPROPRIATE CONTAINERS______
PRESERVED IN LAB______

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	+ TDS

COMMENTS:
(*) IF THERE IS ENOUGH SAMPLE FOR MW-4 THEN RUN DISSOLVED CARBONATE, BICARBONATE, CHLORIDE, BROMIDE, IODIDE, + SODIUM IF POSSIBLE, + TDS

Well ID: MW-1

DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA

Dysert Environmental, Inc.

PROJECT:
SITE LOCATION: 3744 Depot Road

DATE: 11-21-08

CITY: Hayward STATE: CA

PURGE DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one	bladder pump	peristaltic pump	disposable bailer		discrete sampler	other	
casing diameter (inches)	circle one	0.75	1	1.5	(2)	4	6
casing volumes (gallons)	circle one	0.02	0.05	0.15	(0.2)	0.7	1.52

WELL DATA

SAMPLER/S: K. Anderson

WELL NUMBER / FIELD POINT ID: MW-1

A. TOTAL WELL DEPTH: 15.05

B. DEPTH TO WATER: 6.00

C. WATER HEIGHT (A-B): 9.05

D. WELL CASING DIAMETER: ~~1.5~~ 2

E. CASING VOLUME: .2

F. SINGLE CASE VOLUME (CxF): 1.81

G. CASE VOLUME (s) (CxEx 3): 5.43

H: 80% RECHARGE LEVEL (F+B): 7.81

PURGE DATA

START TIME: 1155

FINISH TIME: 1220

RECHARGE / SAMPLE TIME

DEPTH TO WATER: 6.15 TIME MEASURED: 1225

GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): circle one (YES) NO

SAMPLE TIME: 1230 DEPTH TO WATER: 6.15

SAMPLE APPEARANCE / ODOR: LT BROWN, NO ODOR OR SHEEN. MW-1

TOTAL GALLONS PURGED: ~7.5

WELL FLUID PARAMETERS

CASE VOLUME	0	1	2	3	4			
pH	7.59	7.53	7.54	7.55	7.54			
TEMP in °C	17.4	20.1	20.1	20.1	20.1			
COND / SC	1469	1265	1272	1264	1263			
DTW	6.05	6.35	6.35	6.35	6.35			
Pump Depth	~7'	~7'	~7'	~7'	~7'			
Pump Rate	~1L/min	~1L/min	~1L/min	~1L/min	~1L/min			

NOTES: Well Cap Was No Lock. No Grease Under Well Cover

Well ID: MW-2

DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA

Dysert Environmental, Inc.

PROJECT:
DATE: 11-21-08
SITE LOCATION: 3744 Depot Road

CITY: Hayward STATE: CA

PURGE DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one bladder pump peristaltic pump disposable bailer discrete sampler other

casing diameter (inches)	circle one	0.75	1	1.5	(2)	4	6
casing volumes (gallons)	circle one	0.02	0.05	0.15	(0.2)	0.7	1.52

WELL DATA

SAMPLER/S: Kyle Hammond
WELL NUMBER / FIELD POINT ID: MW-2
A. TOTAL WELL DEPTH: 15.25
B. DEPTH TO WATER: 7.00
C. WATER HEIGHT (A-B): 8.25
D. WELL CASING DIAMETER: 2
E. CASING VOLUME: .2
F. SINGLE CASE VOLUME (CxE): 1.65
G. CASE VOLUME (s) (CxEx 3): 4.95
H: 80% RECHARGE LEVEL (F+B): 8.65

PURGE DATA

START TIME: 1310
FINISH TIME: 1330

RECHARGE / SAMPLE TIME

DEPTH TO WATER: 7.25 TIME MEASURED: 1330
GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): circle one (YES) NO
SAMPLE TIME: 1335 DEPTH TO WATER: 7.25
SAMPLE APPEARANCE / ODOR: CLEAR / NO ODOR
TOTAL GALLONS PURGED: ~5 GALS

WELL FLUID PARAMETERS

CASE VOLUME	0	1	2	3				
pH	7.00	6.89	6.91	6.91				
TEMP in °C	20.8	20.9	21.0	20.9				
COND / SC	1553	1566	1560	1553				
DTW	7.25	7.25	7.25	7.25				
Pump Depth	~9'	~9'	~9'	~9'				
Pump Rate	~1L/min	~1L/min	~1L/min	~1L/min				

NOTES: WELL CAP HAS NO LOCK, NO GASKET UNDER WELL COVER

Well ID: MW-3

DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA

Dysert Environmental, Inc.

PROJECT:
DATE: 11-21-08

SITE LOCATION: 3744 Depot Road

CITY: Hayward STATE: CA

PURGE DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one bladder pump peristaltic pump disposable bailer discrete sampler other

casing diameter (inches)	circle one	0.75	1	1.5	2	4	6
casing volumes (gallons)	circle one	0.02	0.05	0.15	0.2	0.7	1.52

WELL DATA

SAMPLER/S:
WELL NUMBER / FIELD POINT ID:
A. TOTAL WELL DEPTH:
B. DEPTH TO WATER: 6.70
C. WATER HEIGHT (A-B):
D. WELL CASING DIAMETER:
E. CASING VOLUME:
F. SINGLE CASE VOLUME (CxE):
G. CASE VOLUME (s) (CxEx):
H: 80% RECHARGE LEVEL (F+B):

PURGE DATA

START TIME:
FINISH TIME:

RECHARGE / SAMPLE TIME

DEPTH TO WATER: TIME MEASURED:
GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): circle one YES NO
SAMPLE TIME: 1250 DEPTH TO WATER:
SAMPLE APPEARANCE / ODOR:
TOTAL GALLONS PURGED:

WELL FLUID PARAMETERS

CASE VOLUME								
pH								
TEMP in °C								
COND / SC				NO				
DTW						PURGE		
Pump Depth								
Pump Rate								

NOTES:

Well ID: MW-4

DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA

Dysert Environmental, Inc.

PROJECT: DATE:
SITE LOCATION:

CITY: STATE: CA

PURGE DEVICE

circle one: submersible pump, peristaltic pump, bladder pump, disposable bailer

SAMPLING DEVICE

circle one	bladder pump	peristaltic pump	disposable bailer	discrete sampler	other	
casing diameter (inches)	circle one	0.75	(1)	1.5	2	4	6
casing volumes (gallons)	circle one	0.02	(0.05)	0.15	0.2	0.7	1.52

WELL DATA

SAMPLER/S: [illegible]
WELL NUMBER / FIELD POINT ID: MW-4
A. TOTAL WELL DEPTH: 13.35
B. DEPTH TO WATER: 12.48
C. WATER HEIGHT (A-B): .87
D. WELL CASING DIAMETER: 1
E. CASING VOLUME: .05
F. SINGLE CASE VOLUME (CxE): .04
G. CASE VOLUME (s) (CxEx 3): .12
H: 80% RECHARGE LEVEL (F+B): 12.52

PURGE DATA

START TIME: 1420
FINISH TIME: 1600

RECHARGE / SAMPLE TIME

DEPTH TO WATER: 13.00 TIME MEASURED: 1600
GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): circle one YES NO
SAMPLE TIME: 1600 DEPTH TO WATER:
SAMPLE APPEARANCE / ODOR: CLEAR NONE
TOTAL GALLONS PURGED: N/A

WELL FLUID PARAMETERS

CASE VOLUME								
pH								
TEMP In °C			SEE	NOTE				
COND / SC					BROWN			
DTW								
Pump Depth								
Pump Rate								

NOTES: PURGED WATER INTO 1L NON-PRESERVED CONTAINER, 200 ML IN BOTTLE, WELL DRY
NO PARAMETERS TAKEN DUE TO INSUFFICIENT AMOUNT OF WATER IN WELL
SAMPLED 2 VOAS W/ HCl & 1 500 ML IN NON-PRESERVED AMBER, SAMPLED @ 1600

Well ID: MW-5

DYSERT ENVIRONMENTAL, INC.
WELL PURGING / SAMPLING DATA

Dysert Environmental, Inc.

PROJECT:
SITE LOCATION: 3744 Depot Road

DATE: 11-21-08

CITY: Hayward	**STATE: CA**

PURGE DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one bladder pump peristaltic pump disposable bailer discrete sampler other

casing diameter (inches)	*circle one*	0.75	1	1.5	2	4	6
casing volumes (gallons)	*circle one*	0.02	0.05	0.15	0.2	0.7	1.52

WELL DATA

SAMPLER/S: KAN ATKINSON
WELL NUMBER / FIELD POINT ID: MW-5
A. TOTAL WELL DEPTH: 13.35
B. DEPTH TO WATER: 7.73
C. WATER HEIGHT (A-B): 5.62
D. WELL CASING DIAMETER: 1
E. CASING VOLUME: .05
F. SINGLE CASE VOLUME (CxE): .28
G. CASE VOLUME (s) (CxEx 3): .84
H: 80% RECHARGE LEVEL (F+B): 8.01

PURGE DATA

START TIME: 1355
FINISH TIME: 1415

RECHARGE / SAMPLE TIME

DEPTH TO WATER: 13.20 **TIME MEASURED:** 1510
GREATER THAN OR EQUAL TO 80% RECHARGE LEVEL (H): *circle one* YES NO
SAMPLE TIME: 1515 **DEPTH TO WATER:**
SAMPLE APPEARANCE / ODOR: murky / no odor
TOTAL GALLONS PURGED:

WELL FLUID PARAMETERS

CASE VOLUME	0	1	2	3				
pH	11.96	9.81	9.19					
TEMP in °C	19.6	19.8	18.4					
COND / SC	836	1009	1027					
DTW	13.20	13.20	13.20					
Tubing Pump Depth	~9'	~13'	~13'					
Pump Rate	~1L/min	~1L/min	~1L/min					

NOTES: collected 1.5L during initial purge in non-preserved containers well dry. slow recharge @ 1"/min. stopped @ 1415 to let recharge. collected sample : parameters throughout. sampled @ 1515