

Sustaining Environments Worldwide

840 Watt Avenue, Sacramento, CA, 95864

(916) 485-2110 / fax (916) 485-2110

February 2, 2005

Alameda County Environmental Health Department Amir Gholami 1131 Harbor Bay Parkway Alameda, CA 94502-6577

RE: 2547 East 27th Street, Oakland, California (Property), Site 4.48

Mr. Gholami-

Good day. Enclosed you will find a copy of the most recent assessment report for the above mentioned Property. It is here for your review as part of the ongoing assessment and clean-up (if necessary) of the Property.

Ceres Associates attempted, on multiple occasions, to contact both you and your immediate supervisor regarding this project prior to conducting field activities. Unfortunately phone messages were not returned and the front desk informed our staff that the oversight of the Property was under the Alameda County Public Works Agency. After much run-around, this does not appear to be true.

Ceres Associates in coordination with the Property owner are attempting to assess the contamination at the Property. As the report recommends, further investigations are warranted for off-site sampling and monitoring. We want to work closely with the Environmental Health Department and coordinate our efforts along with the agency's desires for the site.

We are preparing for the next phase of sampling at the Property and would like your input. Please call us at (916) 485-2110 or email at <u>ryanmeyer@ceresassociates.com</u>.

Sincerely,

Ceres Associates

Ryan Meyer

Project Manager

Ceres Associates

840 Watt Avenue Sacramento, California 95864 916 486-2110 fax 916 485-2110

Ryan Meyer

Project Manager ryanmeyer@ceresassociates.com

Tomorrow Development Co.

# SOIL AND GROUNDWATER SAMPLING REPORT

Former Gas Station 2547 East 27th Street Oakland, California





Prepared for:

Tomorrow Development Co. 1939 Harrison Street, #418 Oakland, California

## SOIL AND GROUNDWATER SAMPLING REPORT

Former Gas Station 2547 East 27th Street Oakland, California

Project CA1264-1

Prepared by:

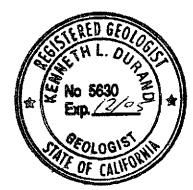
Ryan Meyer, REA 07936

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Reviewed by:

Ken Durand, RG, CHG

Project Manager



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#### 1.0 SUMMARY

## 1.1 SOIL AND GROUNDWATER SAMPLING AND ANALYSIS

The purpose of this Phase II Environmental Site Assessment (ESA) was to attempt to further delineate soil and groundwater contamination at the former gasoline station at 2547 East 27th Street, Oakland, California (Property).

#### **BACKGROUND**

The Property has been subject to prior environmental assessments including a Phase I ESA and a Phase II ESA.

#### Phase I ESA

A Phase I ESA report, dated May 10, 2001, was conducted for the Property by ML River Group (ML). ML described the Property as a vacant lot which formerly supported a gasoline station and/or garage from 1927 - 1994. The report indicated that four 500-gallon and one 100-gallon underground storage tanks (USTs) were removed from the Property in 1994. It was reported that soil samples obtained during the UST removal indicated contamination in the soil. It was noted that the case had been forwarded to the Alameda County District Attorney's Office because no additional site work had occurred since 1994. The consultant made the following conclusion: "Soil remediation and subsurface investigation of the Subject Site must be performed before redeveloping the Property."

#### Phase II ESA

A Phase II ESA report, dated August 2, 2002, was conducted for the Property by Kleinfelder. According to report, the Property was formerly developed with a gasoline station and automotive repair facility from at least 1927 until 1994. In 1994, one 100-gallon waste oil UST and four 500-gallon gasoline USTs were removed from the Property. After the tanks were removed, the excavation pits were lined with visqueen plastic and backfilled with the excavated material. It was reported that eight soil samples were collected from below the tanks and two were collected from the stockpiled soil (from the excavation). The soil samples were analyzed for petroleum hydrocarbons including gasoline (TPH-g) and diesel (TPH-d), and benzene, toluene, ethylbenzene, and xylenes (BTEX). Concentrations of TPH-g were reported as high as 930 parts per million (ppm) from the excavation pit samples. Concentrations of benzene, toluene, ethylbenzene, and xylenes were reported as high as 2.2 ppm, 2.7 ppm, and 3.3 ppm, respectively.

Kleinfelder advanced three soil borings on the Property. Monitoring wells were installed in each of the three borings (and remain on-site today). According to the report, reported concentrations TPH-g, TPH-d, and xylenes exceeded regulatory action limits. Kleinfelder recommended conducting further soil and groundwater sampling to determine the extent of soil contamination and to confirm the groundwater results from their initial study.

## 1.2 DISCUSSION

Based upon laboratory analysis, it would appear that concentrations of target analytes in soil samples collected from five and 10 feet bgs fall below the regulatory criteria established by the Sate of California Regional Water Quality Control Board (RWQCB) and the United States Environmental Protection Agency (US EPA) for residential sites.

Groundwater sampling data indicate high concentrations of TPH-g and TPH-d, along with elevated levels of BTEX compounds. The concentrations reported by the laboratory for the groundwater samples collected by Ceres Associates far exceed the concentrations reported during a previous sampling event by Kleinfelder. Further, concentrations of TPH-g and TPH-d were found at 21,000 ppb and 250,000 ppb, respectively, along the eastern border of the Property adjacent to 26th Avenue; it is likely that contamination has migrated off-site. However, an accurate groundwater flow model has not yet been prepared for the Property. Further off-site work will require extensive sampling to ascertain the predominant groundwater flow direction. It may be necessary to define potential sensitive sites which may be impacted by the contamination flowing from the Property. The groundwater elevations observed and recorded in groundwater monitoring wells already installed on the Property varied by as much as 2.5 feet between wells located within 25 feet of one another. The influences on the disparity of groundwater elevations is unknown at this time.

Additional groundwater monitoring wells are warranted both on-site and off-site to not only help define the limits of contamination but also to assess an accurate groundwater flow direction. Such off-site well installations should be determined at the time of recommended off-site soil and groundwater sampling.

#### 1.3 RECOMMENDATIONS

Based upon the results of data accumulated during this assessment, Ceres Associates recommends the following:

- Contamination has likely migrated off-site. Further soil and groundwater sampling
  activities should be conducted northeast and southwest of the Property to assess the
  extent of off-site contamination as well as to further assess the dominant groundwater
  flow direction of the area. Continuous soil logging should be conducted to ascertain the
  soil types at specific depths in boring locations.
- Ceres Associates recommends installing additional on-site groundwater monitoring wells to better establish groundwater contamination and groundwater flow direction.
- Ceres Associates recommends installing off-site groundwater monitoring wells commensurate with off-site soil and groundwater sampling conducted as part of these recommendations.

#### 2.0 INTRODUCTION

At the request of Tomorrow Development Co., Ceres Associates conducted a Phase II ESA at the former gas station located at 2547 East 27th Street, Oakland, Alameda County, California (Property) (refer to Figure 1 - Property Location Map).

#### 2.1 PURPOSE

The purpose of this ESA was to further delineate on-site contamination as a result of leaking underground storage tanks removed from the Property in 1994. Kleinfelder advanced three borings, collected soil and groundwater samples, and placed three monitoring wells. Results of laboratory analysis revealed both soil and groundwater contamination. Kleinfelder recommended further assessment to ascertain the extent of the contamination.

#### PREVIOUS SAMPLING

Kleinfelder conducted soil and groundwater sampling activities at the Property on June 19 and July 10, 2002. Kleinfelder supervised the advance of three soil borings ranging in depth from 11 to 19 feet below ground surface (bgs). Kleinfelder reportedly advanced each boring until approximately two feet below groundwater.

After each boring was completed, a pre-packed well screen with 0.01" annuli was inserted. The screened interval was reported as being from the bottom of the boring to approximately two feet above groundwater. The wells were then topped with one foot of sand and two feet of bentonite chips. A locking well cap was reportedly installed on each well. Finally, Christy boxes were installed in a neat cement cap. The wells were designated EB-1, EB-2, and EB-3 and were determined to have potentiometric surface elevations of 95.45', 91.47', and 96.99', respectively.

According to the report issued by Kleinfelder, dated August 2, 2002:

"TPH-g was detected in the soil samples extracted from borings EB-1 and EB-2 at concentrations of 1,200 mg/kg and 1,800 mg/kg, respectively. TPH-d was detected in these samples, from borings EB-1 and EB-2, at concentrations of 650 mg/kg and 1,500 mg/kg, respectively. TPH-mo was detected in concentrations above laboratory reporting limits only in the sample from boring EB-1 at 14 mg/kg. Further, the laboratory described the detected TPH-g as strongly aged gasoline, and the TPH-d was described as Stoddard solvent."

Total lead was reported as high as 24 ppm in the soil samples collected from the Property.

Groundwater samples were reported to contain concentrations of TPH-g as high as 82 micrograms per liter (µg/l) or parts per billion (ppb); TPH-d as high as 360 ppb; motor oil as high as 540 ppb; benzene as high as 0.97 ppb; and toluene and xylenes as high as 1.3 ppb. Ethylbenzene and MTBE were not reported above their laboratory reporting limits. Kleinfelder noted the likely presence of perched groundwater, as evidenced by the potentiometric elevations recorded for the wells.

Kleinfelder recommended further assessment of the soil contamination present at the site. They further recommended collection of additional groundwater samples to confirm their findings. A copy of the Kleinfelder report is included in the appendix of this report.

## 2.2 PHYSICAL SETTING

The Property is currently undeveloped and has a chain-link fence along the perimeter. One gate for walking access is located along the southern edge of the fence; however, the fence had to be partially removed and replaced to allow for truck access during sampling.

According to the previous sampling conducted by Kleinfelder, the soil at the Property is generally sandy gravel fil from 0 to 4 feet bgs. From 4 to 12 feet bgs the soil was reportedly fat and lean silty clays. Below 12 feet the soil is generally gravel and sand some clay.

#### 3.0 SOIL AND GROUNDWATER SAMPLING

#### 3.1 SOIL AND GROUNDWATER SAMPLING

Prior to sampling, individual boring locations were cleared using USA notification processes as well as a private utility locating service. Underground pipelines and conduits which were identified within the boring area were marked on the surface.

A Health and Safety Plan, prepared by Ceres Associates, was used to facilitate a pre-drilling safety meeting prior to conducting work. Signatures of attendees were collected at the meeting indicating an understanding of the risks and hazards involved in the drilling process. A copy of this document was kept on site during the drilling process.

#### PURPOSE OF BORING LOCATIONS

The area of focus for this assessment was the grouping of former excavation areas related to former USTs (refer to Figure 2 - Soil Boring Location Map). Groundwater only samples (labeled GW) were placed along the exterior of and throughout the grouping of former excavations. These borings were intended to provide additional information related to the on-site extent of groundwater contamination. Soil and groundwater samples (labeled SB) were placed throughout the grouping of former excavations. These borings were intended to provide additional information related to the extent of soil contamination in the area of these former excavations.

#### SAMPLE METHODOLOGY

Soil and groundwater samples were collected on January 7, 2005 using Geoprobe® sampling equipment provided by Vironex of San Leandro, California. The Geoprobe® sampler utilizes direct-push technology to collect soil and groundwater samples from specific subsurface depths without generating soil cuttings. The Geoprobe® sampling system consists of a series of 1.5-inch diameter hollow stainless steel rods which are hydraulically driven into the ground using a pneumatic hammer attached to the Geoprobe® assembly.

#### Soil Sampling

Soil samples were collected by driving a four-foot long stainless steel sample sleeve attached to the end of the steel rods into soil at a specified sample depth. Soil samples were then collected in acetate sample tubes installed inside the sample sleeve. After the rod assembly was hydraulically extended to the target sample depth, the sample sleeve was retrieved to ground surface and the acetate sample tube containing soil from the appropriate sample interval was capped with Teflon®-lined plastic end caps, labeled, placed in a Ziplock® bag, and stored in a chest cooled with crushed ice.

## Groundwater Sampling

Groundwater samples were collected with the Geoprobe® sampler by hydraulically driving a temporary PVC well screen into the water bearing zone, and allowing the groundwater to collect in the bottom of the PVC pipe. Groundwater samples collected from borings labeled GW were advanced using a hydro-punch device. The device was driven to approximately 12 feet bgs, then retracted to approximately 8 feet bgs, exposing a metal screen from which groundwater was collected. Groundwater samples were collected using polyethylene tubing with a check-valve and transferred directly into containers preserved with HCL (for VOC analysis) and laboratory-clean one liter bottles. Sample containers were then labeled, placed in a Ziplock® bag, and stored in a chest cooled with crushed ice.

Groundwater was generally encountered between eight and 14 feet below ground surface (bgs) during assessment activities. Depth to groundwater was measured using a sounding probe in each of the three previously installed boring wells (installed by Kleinfelder):

Boring	Depth to Water* (feet)
EB-1	3.88
EB-2	5.18
EB-3	3.29

<sup>\*</sup>as measured from top of inner casing

## **Boring Completion**

After soil and groundwater samples had been collected, each borehole was tremmie-grouted with Portland Cement. Tremmie-grouting was done according to the regulations and stipulations set forth by the permit issued to Ceres Associates by the Alameda County Public Works Agency (ACPWA). The inspector indicated to Ceres Associates that he would be unable to be present during sampling or grouting activities; these activities were conducted without his presence.

#### 3.2 LABORATORY ANALYSIS

Ceres Associates, following chain of custody protocols, released soil and groundwater samples to Mc Campbell Analytical of Pacheco, California, a State of California-certified analytical laboratory, on January 7, 2005.

Ceres Associates analyzed the soil samples collected from approximately five and 10 feet below ground surface (bgs). Soil samples were analyzed for Total Petroleum Hydrocarbons as diesel (TPH-d) using US EPA method 8015d, TPH as gasoline (TPH-g), and benzene, ethylbenzene, toluene, and xylenes (BTEX) using US EPA Methods 8015g using U.S. EPA method 8260b. The groundwater samples were analyzed for Total Petroleum Hydrocarbons as diesel (TPH-d) using US EPA method 8015d. TPH as gasoline (TPH-g), benzene, ethylbenzene, toluene, and xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) using US EPA Methods 8015g; Halogenated Volatile Organic Compounds (HVOCs) using US EPA method 601 [SB1GW & SB2GW only] Laboratory Data Reports are included in the Appendix of this document.

#### RESULTS

Tables 1 & 2 report concentrations of target analytes above laboratory reporting limits. HVOC analysis was conducted on two samples (SB1GW and SB2GW- near the former waste oil tank), however concentrations of these target analytes were not reported above method reporting limits.

## Results of soil sampling

Generally, soil samples collected from five feet bgs were not reported by the laboratory to contain concentrations of target analytes above their respective method reporting limits. The exceptions were SB-6 and SB-9. Concentrations of target analytes above method reporting limits in the five foot sample from SB-6 included: benzene at 0.024 ppm and ethylbenzene at 0.031 ppm. Concentrations of target analytes above method reporting limits in the five foot sample from SB-9 included: TPH-g at 32 ppm, TPH-d at 52 ppm, ethylbenzene at 0.017 ppm, and xylenes at 0.013 ppm.

The deeper soil samples, collected at 10 feet bgs, tended to contain higher concentrations of target analytes. Soil samples collected at this depth from SB-1, SB-2, and SB-8 were not reported by the laboratory to contain concentrations of target analytes above their respective method reporting limits. For those samples where concentrations of target analytes were reported above the method reporting limits, they were reported to contain as much as 61 ppm of TPH-g, 46 ppm of TPH-d, 0.0070 ppm of benzene, 0.045 ppm of ethylbenzene, and 0.027 ppm of xylenes.

These reported concentrations of soil samples do not exceed regulatory criteria for further action based on Environmental Screening Levels (ESLs) established by the State of California Regional Water Quality Control Board (RWQCB) or Residential Preliminary Remediation Goals (Res PRGs) established by the United States Environmental Protection Agency, Region IX (US EPA).

## Results of groundwater sampling

Target analytes were reported above method reporting limits in all but one groundwater sample collected from the Property. Generally, samples collected after retrieving soil samples (using the continuous sampling macro-core device) were reported as containing higher concentrations of target analytes than from those samples collected using the hydro-punch device.

Concentrations of target analytes were reported by the laboratory as high as 90,000 micrograms per liter ( $\mu$ g/l) or parts per billion (ppb) for TPH-g; 750,000 ppb for TPH-d; 140 ppb for benzene; 1.5 ppb for toluene; 77 ppb for ethylbenzene; and 20 ppb for xylenes. Methyl tert butyl ether (MTBE) was not reported above the method reporting limits for any sample.

Concentrations of benzene far exceed the regulatory limit of 1.0 ppb as defined by the State of California Department of Health Services (CDHS) Maximum Contaminant Level (MCL). MCLs are not defined for petroleum hydrocarbons including gasoline and diesel. However, the RWQCB has established an ESL for TPH-g and TPH-d of 100 ppb. The ESL is designed to protect groundwater resources in the area.

## Table 1: Soil Sampling Results

(concentrations reported as parts per million, ppm)

Sample	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
SB1-5	ND	ND	ND	ND	ND	ND	ND
SB1-10	ND	ND	ND	ND	ND	ND	ND
SB2-5	ND	ND	ND	ND	ND	ND	ND
SB2-10	ND	ND	ND	ND	ND	ND	ND
SB3-5	1.5	ND	ND	ND	ND	ND	ND
SB3-10	3.8	2.3	ND	ND	ND	ND	ND
SB4-5	ND	ND	ND	ND	ND	ND	ND
SB4-8	32	10 ND	ND	ND	0.034	0.011	ND
SB5-5	ND		ND	ND	ND	ND	ND
SB5-10	61	46	0.0070	ND	0.045	0.027	ND
SB6-5	ND	ND	0.024	ND	0.031	ND	ND<0.10
SB6-10	41	35	ND	ND	ND	ND	ND
SB7-5	ND	ND	ND	ND	ND	ND	ND
SB7-10	2.3	1.5	ND	ND	ND	ND	ND
SB8-5	ND	ND	ND	ND	ND	ND	ND
SB8-10	ND	ND	ND	ND	ND	ND	ND
SB9-5	32	52	ND	ND	0.017	0.013	ND
SB9-10	SB9-10 1.5		ND	ND	ND	ND	ND
SB10-5	ND ND ND ND		ND	ND	ND		
SB10-10	ND	ND	ND	ND	ND	ND	ND
ESLs	100	100	0.044	2.9	3.3	1.5	0.023
Res PRGs	-	- la austa ur us at	0.64	520	400	270	17

ND = Not detected above laboratory method reporting limits

Concentrations reported as milligrams per kilogram (mg/kg) or parts per million (ppm)

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

MTBE = methyl-tert-butyl-ether

ESL = Environmental Screening Level established by the State of California Regional Water Quality Control Board for residential sites where shallow groundwater may be used for drinking water purposes

Res PRG = Residential Preliminary Remediation Goal established by the United States Environmental Protection Agency, Region IX



## Table 2: Groundwater Sampling Results

(concentrations reported as parts per billion, ppb)

Sample TPH-g TPH-d		TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
SB1 GW	ND	ND	1.3	1.5	ND	0.69	ND
SB2 GW	GW ND N		ND	ND	ND	ND	ND
SB3 GW	B3 GW 11,000 42,000		ND<5.0	ND<5.0	8.2	ND<5.0	ND<50
SB4 GW	4,600	24,000	ND<2.5	ND<2.5	4.1	3.8	ND<25
SB5 GW	6,000	12,000	6.8	ND<2.5	4.2	5.8	ND<25
SB6 GW	B6 GW <b>35,000 560,000</b>		83	ND<10	34	20	ND<100
SB7 GW	21,000	250,000	21	ND<10	19	ND<10	ND<100
SB8 GW	1,000	3,900	ND	ND	ND	1.1	ND
SB9 GW	90,000	750,000	140	ND<50	77	ND<50	ND<500
SB10 GW	600	1,300	ND	ND	ND	0.70	ND
GW1	1,600	2,500	ND	ND	0.95	0.81	ND
GW2	830	620	ND	ND	0.72	ND	ND
GW3	ND	NA	1.0	0.51	ND	ND	ND
GW4	ND	ND	0.66	ND	ND	ND	ND
GW5	1,900	2,300	4.3	ND	1.7	1.3	ND
GW6	3,900	7,600	1.2	ND	2.3	2.6	ND
MCL	-	-	1.0	150	300	1,750	13
ESL	100	100	1.0	41	31	13	5.0

ND = Not detected above laboratory method reporting limits

NS = Not Analyzed (insufficient groundwater for analysis)

Concentrations are reported in micrograms per liter (µg/l) or parts per billion (ppb)

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

MTBE = methyl-tert-butyl-ether

MCL = Maximum Contaminant Level established by the State of California Department of Health Services

Bold values represent concentrations which meet or exceed the MCL and/or ESL

ESL = Environmental Screening Level established by the State of California Regional Water Quality Control Board for residential sites where shallow groundwater may be used for drinking water purposes

#### 4.0 LIMITATIONS

This Environmental Site Assessment (ESA) was conducted according to accepted industry standards and guidelines for similar assessments conducted in this geographic region at this time.

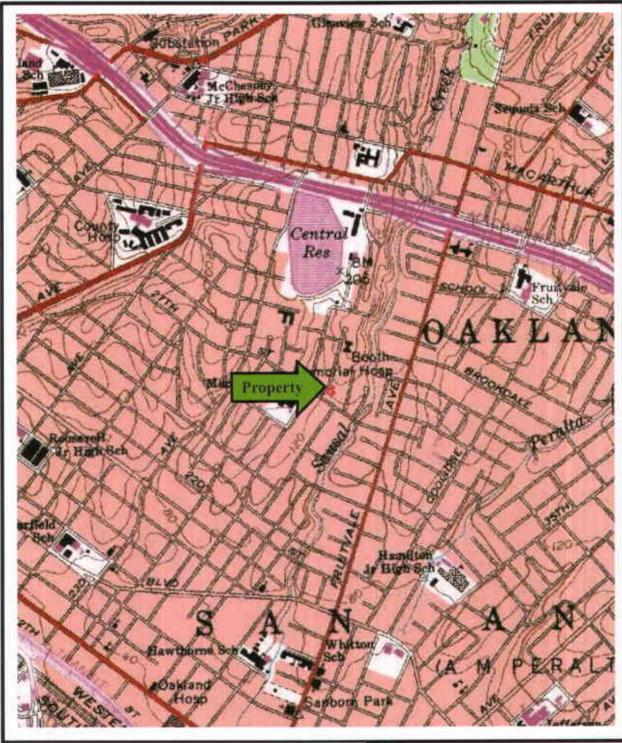
This assessment cannot fully eliminate the possibility of the Property having environmental impairments. In today's technology, no amount of assessment can certify that the Property is completely free of environmental concern. It is possible undocumented or concealed conditions of the Property could exist beyond what was found during this ESA. This report does not cover any Property conditions beyond the date the Property survey was conducted.

Physical setting information provided in this report is for drawing conclusions, by Ceres Associates, within the context and timing of this report only. This information is preliminary and should not be used for any subsequent purposes.

Much of the information upon which the conclusions and recommendations of this Phase I ESA are based, comes from data provided by others. Ceres Associates is not responsible for the accuracy or completeness of this information. Inaccurate data, or information that was not found or made available to Ceres Associates, may result in a modification of the stated conclusions and recommendations.

#### REPORT USE

This report was prepared for the sole use and benefit of Tomorrow Development Co. This report is not a legal opinion and does not offer warranties or guarantees.





I inch equals 2000 feet

#### Map Taken From:

United States Geological Survey 7.5 Minute Topographic Series Oakland East, California Quaerongle

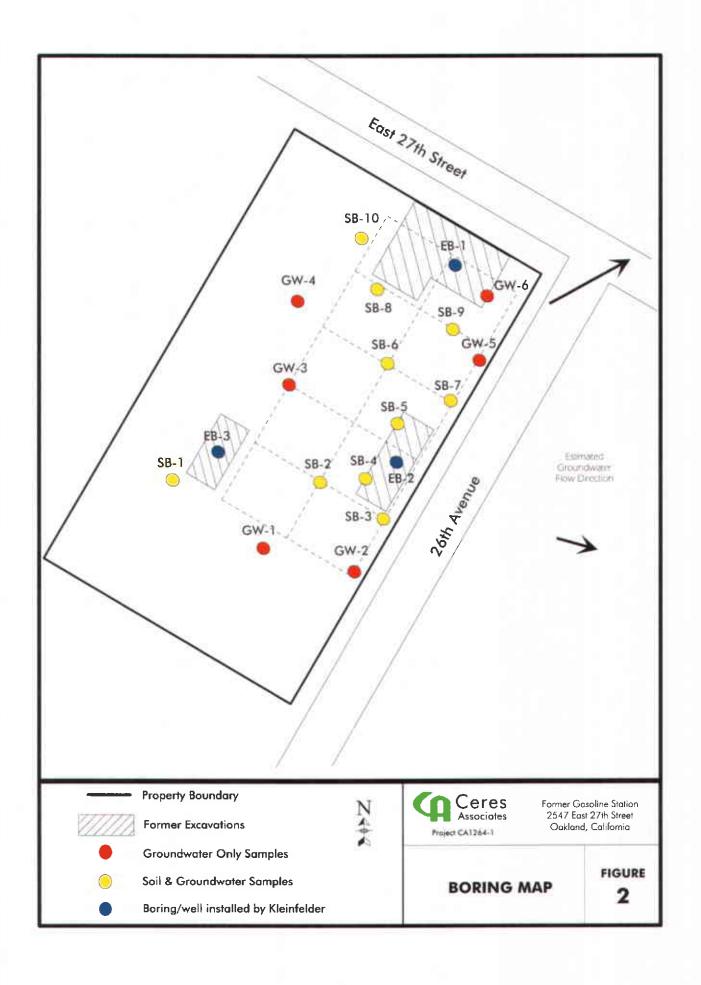


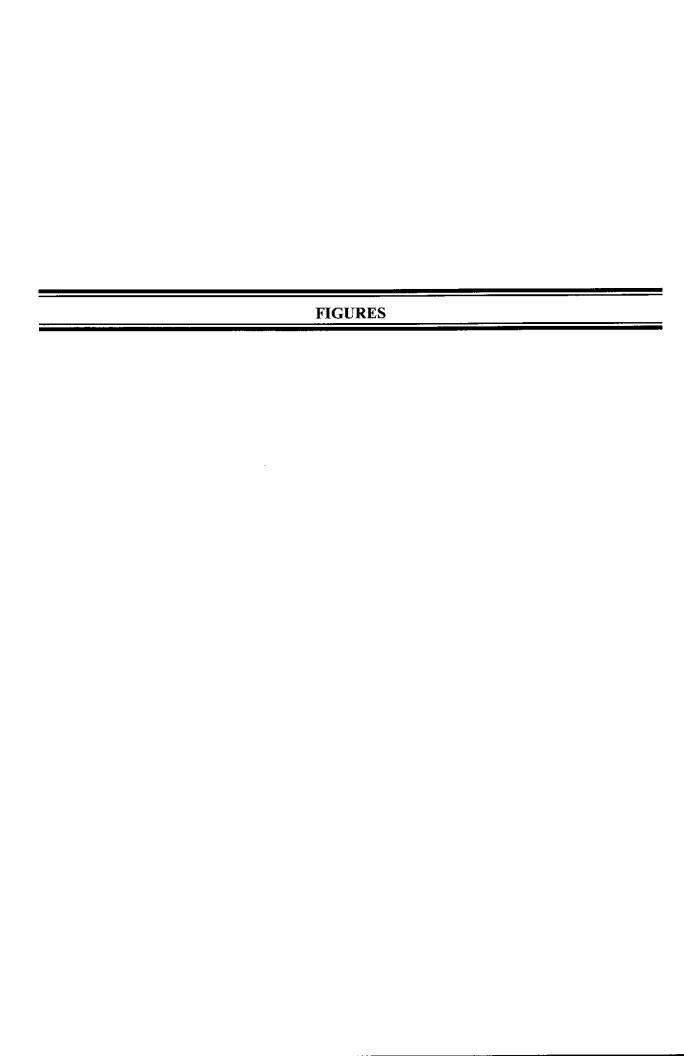
Project CA1264-1

Former Gasoline Station 2547 East 27th Street Oakland, California

PROPERTY LOCATION MAP

FIGURE





## APPENDIX A LABORATORY DATA REPORTS



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

Ceres Associates	Client Project ID: #CA1264-1; T-Dev	Date Sampled: 01/07/05
840 Watt Avenue		Date Received: 01/07/05
C	Client Contact: Ryan Meyer	Date Extracted: 01/08/05-01/12/05
Sacramento, CA 95864	Client P.O.:	Date Analyzed: 01/10/05-01/12/05

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

Work Order: 0501088 Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Client ID MTBE Ethylbenzene DF % SS Lab ID Matrix TPH(g) Benzene Toluene Xylenes SB1-5 NDND ND 1 83 002A ND ND ND S ND ND ND 102 004A SB1-10 ND ND ND ŧ 006A SB2-5  $\mathbf{S}$ ND ND ND ND ND ND 1 82 S ND ND 84 008A SB2-10 ND ND ND ND 010A SB3-5 S ND ND ND ND 1 82 1.5,g ND 110 012A SB3-10 S 3.8,g,m ND ND ND ND ND S ND ND ND 1 102 014A SB4-5 ND ND ND 92 0.034 0.011 015A SB4-8 S 32,g,m ND ND ND SB5-5 ND ND ND ND ND 1 82 016A S ND 018A SB5-10 S 0.0070 ND 0.045 0.027 95 ND 61,**g**,m 020A SB6-5 S ND ND ND ND ND ND 1 108 104 022A S 0.024ND 0.031 ND 1 SB6-10 41,g,m ND<0.10 ND ND 1 97 S ND ND 024Λ SB7-5 ND ND SB7-10 S ND ND ND ND ND 1 107 026A 2.3,g 028A SB8-5 S ND ND. ND ND ND ND 1 96 030A SB8-10 S ND ND ND ND ND ND 1 95 Reporting Limit for DF =1; W  $\mu g/L$ 50 5.0 0.5 0.5 0.5 0.5 ND means not detected at or

\* 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.

0.05

# cluttered chromatogram; sample peak coelutes with surrogate peak.

S

1.0

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

0.005

D

0.005

0.005

mg/Kg

above the reporting limit



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

Ceres Associates	Client Project ID: #CA1264-1; T-Dev	Date Sampled: 01/07/05
840 Watt Avenue		Date Received: 01/07/05
S CA 05964	Client Contact: Ryan Meyer	Date Extracted: 01/08/05-01/12/05
Sacramento, CA 95864	Client P.O.:	Date Analyzed: 01/10/05-01/12/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0501088

Lab ID         Client ID         Matrix         TPH(g)         MTBE         Benzene         Toluene         Ethylbenzene         Xylenes         DF           032A         SB9-5         S         32,g,m         ND         ND         ND         0.017         0.013         1           034A         SB9-10         S         1.5,m         ND         1         036A         SB10-5         S         ND         1         039A         SB1GW         W         ND,i         ND         1.3         1.5         ND         0.69         1         040A         SB2GW         W         ND,i         ND         ND         ND         ND         ND         ND         1         041A         SB3GW         W         11,000,g,m,h,i         ND<<0         ND<0         ND         ND         ND         ND         5         0425         ND<0         5         ND<0         5         <	032A 034A
034A         SB9-10         S         1.5,m         ND         ND         ND         ND         ND         ND         1           036A         SB10-5         S         ND         1           038A         SB10-10         S         ND	034A
036A         SB10-5         S         ND         ND         ND         ND         ND         ND         ND         ND         ND         1           038A         SB10-10         S         ND         ND         ND         ND         ND         ND         ND         1           039A         SB1GW         W         ND,i         ND         1.3         1.5         ND         0.69         1           040A         SB2GW         W         ND,i         ND         ND         ND         ND         ND         ND         ND         1           041A         SB3GW         W         11,000,g,m,h,i         ND<50	
038A         SB10-10         S         ND         ND         ND         ND         ND         1           039A         SB1GW         W         ND,i         ND         1.3         1.5         ND         0.69         1           040A         SB2GW         W         ND,i         ND         ND         ND         ND         ND         ND         1           041A         SB3GW         W         11,000,g,m,h,i         ND<50	036A
039A         SB1GW         W         ND,i         ND         1.3         1.5         ND         0.69         1           040A         SB2GW         W         ND,i         ND         ND         ND         ND         ND         1           041A         SB3GW         W         11,000,g,m,h,i         ND<50	
040A         SB2GW         W         ND,i         ND         ND         ND         ND         ND         1           041A         SB3GW         W         11,000,g,m,h,i         ND<50	038A
041A         SB3GW         W         11,000,g,m,h,i         ND<50         ND<5.0         ND<5.0         8.2         ND<5.0         10           042A         SB4GW         W         4600,g,m,h,i         ND<25	039A
042A         SB4GW         W         4600,g,m,h,i         ND<25	040A
043A         SB5GW         W         6000,g,m,h,i         ND<25	041A
044A         SB6GW         W         35,000,g,m,h,i         ND<100         83         ND<10         34         20         20           045A         SB7GW         W         21,000,g,m,h,i         ND<100	042A
045A SB7GW W 21,000,g,m,h,i ND<100 21 ND<10 19 ND<10 20	043A
	044A
046A SB8GW W. 1000,g,m,i ND ND ND ND 1.1 1	045A
	046Л
047A SB9GW W 90,000,g,a,h,j ND<500 140 ND<50 77 ND<50 100	047A
048A SB10GW W 600,g,m,i ND ND ND ND 0.70 1	048A
049A GW1 W 1600,a,i ND ND ND 0.95 0.81 L	049A
050A GW2 W 830,g,m,i ND ND ND 0.72 ND 1	050A
Reporting Limit for DF =1;   W   50   5.0   0.5   0.5   0.5   1	Reporting Lir
Above the reporting limit S 1.0 0.05 0.005 0.005 0.005 0.005 1	

Reporting Limit for DF =1; ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg
* water and vanor samples an	d all TCI	P & SPI P extrac	rts are reported in	ng/L soil/shida	e/solid samples it	n mg/kg wine sa	mples in ug/wip	ie.	

product/oil/non-aqueous liquid samples in mg/L.

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



<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.



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Ceres Associates	Client Project ID: #CA1264-1; T-Dev	Date Sampled: 01/07/05
840 Watt Avenue		Date Received: 01/07/05
G CA 05964	Client Contact: Ryan Meyer	Date Extracted: 01/08/05-01/12/05
Sacramento, CA 95864	Client P.O.:	Date Analyzed: 01/10/05-01/12/05

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

Extraction method: SW5030B				Analytical methods: SW8021B/8015Cm					Work Order: 0501088			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS		
051A	ĠW3	w	ND,i	ND	1.0	0.51	ND	ND	1	99		
052A	GW4	w	ND,i	ND	0.66	ND	ND	ND	1	106		
053A	GW5	w	1900,a,g,i	ND	4.3	ND	1.7	1.3	l	106		
054A	GW6	w	3900,g,a,i	ND	1.2	ND	2.3	2.6	1	113		
								-				
									ļ			
			1									
<u> </u>			,						<u> </u>	-		
										<u> </u>		
Reportin	g Limit for DF =1; s not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	- 1	μg/I		
	he reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/K		

<sup>\*</sup> 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.

\_Angela Rydelius, Lab Manager

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

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



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Ceres Associates	Client Project ID: #CA1264-1; T-Dev	Date Sampled: 01/07/05		
840 Watt Avenue	·	Date Received: 01/07/05		
G	Client Contact: Ryan Meyer	Date Extracted: 01/08/05		
Sacramento, CA 95864	Client P.O.:	Date Analyzed: 01/10/05-01/18/05		

#### Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\*

Extraction method: SW:	3510C/SW3550C		Analytical methods: SW8015C	Work Order:	0501088
Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0501088-002A	SB1-5	s	ND	1	117
0501088-004A	SB1-10	S	ND	1	108
0501088-006A	SB2-5	S	ND	1	115
0501088-008A	SB2-10	s	ND	1	116
0501088-010A	SB3-5	S	ND	. 1	99
0501088-012A	SB3-10	S	2.3,n.f	. 1	116
0501088-014A	SB4-5	S	ND	1	101
0501088-015A	SB4-8	S	10,n	1	117
0501088-016A	SB5-5	S	ND .	1	116
0501088-018A	SB5-10	S	<b>46</b> ,n	1	115
0501088-020A	SB6-5	S	ND	. 1	110
0501088-022A	SB6-10	S	. 35,n	1	113
0501088-024A	SB7-5	S	ND	1	111
0501088-026A	SB7-10	S	1.5,n	. 1	111
0501088-028A	SB8-5	S	ND	1	108
0501088-030A	SB8-10	s	ND	1	109

Reporting Limit for DF =1;	W	50	μg/L
ND means not detected at or above the reporting limit	S	1.0	mg/Kg

<sup>\*</sup> 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 / SPLP / TCLP extracts are reported in µg/L.

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



<sup>#</sup> 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.



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Ceres Associates	Client Project ID: #CA1264-1; T-Dev	Date Sampled: 01/07/05
840 Watt Avenue		Date Received: 01/07/05
G	Client Contact: Ryan Meyer	Date Extracted: 01/08/05
Sacramento, CA 95864	Client P.O.:	Date Analyzed: 01/10/05-01/18/05

#### Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\*

Extraction method: SW	73510C/SW3550C		Analytical methods: SW8015C	Work Order:	0501088
Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0501088-032A	SB9-5	s	52,n,b,g	. [	110
0501088-034A	SB9-10	S	6.6,n	1	111
0501088-036A	SB10-5	S	ND	1	110
0501088-038A	SB10-10	S	ND	1 .	112
0501088-039B	SB1GW	w	ND,i	1	115
0501088-040B	SB2GW	W	ND,i	1	109
0501088-041B	SB3GW	w	42,000,n,g,h,i	. 10	96
0501088-042B	SB4GW	w	24,000,n,g,h,i	10	109
0501088-043B	SB5GW	w	12,000,n,h,i	10	110
0501088-044B	SB6GW	w	560,000,n,h,i	200	#
0501088-045B	SB7GW	w	250,000,n,h,i	100	#
0501088-046B	SB8GW	w	3900,n,g,i	1	109
0501088-047B	SB9GW	w	750,000,n,b,h,i	50	114
0501088-048B	SB10GW	w	1300,n,g,i	1	113
0501088-049B	GWI	w	2500,n,g,i	1	117
0501088-050B	GW2	w	620,n,i	. 1	99

Reporting Limit for DF =1;  ND means not detected at or	W	50	μg/L
above the reporting limit	S	1.0	mg/Kg

<sup>\*</sup> 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.

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



<sup>#</sup> 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.



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MICC	ampoeli An	aiyticai,	inc.	Website: www	one: 925-796-1020 Fax: 925-796-10 .mccampbell.com E-mail: main@mcca	mpbell.com	
Ceres Associate	es .	Client Proj	ect ID: #CA1	264-1; T-Dev	Date Sampled: 01/07/05		
840 Watt Avenu	ue				Date Received: 01/07/05	<b>.</b>	
		Client Con	tact: Ryan Me	yer	Date Extracted: 01/08/05	,	
Sacramento, CA	A 93804	Client P.O	.:		Date Analyzed: 01/10/05	5-01/18/0	)5
Extraction method: SW		el Range (C		ctable Hydrocarbo		ork Order.	0501088
Lab ID	Client ID	Matrix		TPH(d)		DF	% SS
0501088-052B	GW4	w		ND,i		1	94
0501088-053B	GW5	w		2300,n,g	i	1	117
0501088-054B	GW6	w		7600,n,g	i .	1	105
-			<u>.</u>				
			-			-	
		,					
						. !	
						1	

Reporting Limit for DF =1;	W	50	μg/L
ND means not detected at or above the reporting limit	S	1.0	mg/Kg

<sup>\*</sup> 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.

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



Angela Rydelius, Lab Manager

<sup>#</sup> 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.



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Ceres Associates	Client Project ID: #CA1264-1; T-Dev	Date Sampled: 01/07/05
840 Watt Avenue		Date Received: 01/07/05
CA 05964	Client Contact: Ryan Meyer	Date Extracted: 01/11/05
Sacramento, CA 95864	Client P.O.:	Date Analyzed: 01/11/05

#### Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)\*

ction Method: SW5030B Analytical Method: SW8260B Work Order: 0501088

Extraction Method: SW5030B	An	alytical Method: SW8260	В	Work Order	8801060
Lab ID	0501088-039C	0501088-040C			
Client ID	SB1GW	SB2GW		Reporting I	
Matrix	W	W			•
DF	1	. 1		, S	W
Compound		Conc	entration	μg/kg	μg/L
Bromodichloromethane	ND	ND		NA NA	0.5
Bromoform	ND	ND		NA	0.5
Bromomethane	ND	ND		NA	0.5
Carbon Tetrachloride	ND	ND		NA	0.5
Chlorobenzene	ND	ND		NA	0.5
Chloroethane	ND	ND		NA	0.5
2-Chloroethyl Vinyl Ether	ND	ND		NA	0.5
Chloroform	-ND	ND		NA NA	0.5
Chloromethane	ND	ND		NA NA	0.5
Dibromochloromethane	ND	ND		NA	0.5
1,2-Dichlorobenzene	ND	ND		NA	0.5
1,3-Dichlorobenzene	ND	ND .		NA	0.5
1,4-Dichlorobenzene	ND	ND		NA	0.5
Dichlorodifluoromethane	ND	ND		NA	0.5
1,1-Dichloroethane	ND	ND		NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND		NA .	0.5
1,1-Dichloroethene	ND	ND		NA NA	0.5
cis-1,2-Dichloroethene	ND	ND		NA	0.5
trans-1,2-Dichloroethene	ND	ND		NA	0.5
1,2-Dichloropropane	ND	ND		NA	0.5
cis-1,3-Dichloropropene	ND	ND		NA	0.5
trans-1,3-Dichloropropene	ND	ND		NA	0.5
Methylene chloride	ND	ND		NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND		NA	0.5
Tetrachloroethene	. ND	. ND		NA	0.5
1,1,1-Trichloroethane	ND	ND		NA	0.5
1,1,2-Trichloroethane	ND	ND		NA NA	0.5
Trichloroethene	ND ·	ND		NA	0.5
Trichlorofluoromethane	ND	ND		NA NA	0.5
Vinyl Chloride	ND	ND		NA NA	0.5
	Sı	irrogate Recoveri	es (%)		
%SS1:	105	105		!	
%S\$2:	96	95		and the state of t	
%SS3:	105	106			
Comments	, i	i			

*			 dall TOT D & CDI D a	wtraate are
Comments	. i	i		
%SS3:	105	106		
%S\$2:	96	95		
%SS1:	105	105		

<sup>\*</sup> water and vapor samples 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.

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak.

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



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## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0501088

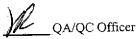
EPA Method: SW80218	3/8015Cm E	xtraction:	SW50308	3	Batch	ID: 14614	S	piked Sampl	e ID: 05010	088-038A
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD.	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE
TPH(btex) <sup>£</sup>	ND	0.60	96.8	99	2.19	96.1	99.1	3.03	70 - 130	70 - 130
MTBE	ND	0.10	92.8	94.6	1.86	104	110	5.10	70 - 130	70 - 130
Benzene	ND	0.10	107	108	0.854	111	117	5.13	70 - 130	70 - 130
Toluene	ND	0.10	86.2	87.4	1.46	85.5	90.2	5.38	70 - 130	70 - 130
Ethylbenzene	ND	0.10	105	108	2.25	103	109	5.37	70 - 130	70 - 130
Xylenes	ND	0.30	95	95.7	0.699	91	95.3	4.65	70 - 130	70 - 130
%SS:	96	0.10	100	109	8.61	103	105	1.92	70 - 130	70 - 130

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

\_\_\_\_

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

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.



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

<sup>\*</sup> 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.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

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



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## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0501088

EPA Method: .SW80211	EPA Method: .SW8021B/8015Cm         Extraction: SW5030B         BatchID: 14592         Spiked Sample ID: 0501067-001]									
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE
TPH(btex) <sup>£</sup>	ND	60	98.5	99.4	0.886	100	98.3	1.80	70 - 130	70 - 130
МТВЕ	ND	10	109	105	3.68	103	102	1.01	70 - 130	70 - 130
Benzene	ND	10	114	117	2.05	111	111	0	70 - 130	70 ~ 130
Toluene	ND	10	106	108	1.99	105	105	0	70 - 130	7.0 - 130
Ethylbenzene	ND	10	108	110	1.29	107	107	0	70 - 130	70 - 130
Xylenes	ND	30	95.3	96	0.697	95.3	95	0.350	70 - 130	70 - 130
%SS:	109	10	110	113	2.29	111	111	0	70 - 130	70 - 130

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

NONE

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 applicable or 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.

M\_QA/QC Officer



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## **QC SUMMARY REPORT FOR SW8021B/8015Cm**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0501088

EPA Method: SW8021B/	8015Cm E	Extraction:	SW5030E	3	Batch	ID: 14616	S	piked Samp	le ID: 05011	102-001A
A 1. d-	Sample	Spiked	. MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCS
TPH(btex) <sup>£</sup>	ND	60	98.8	98.9	0.108	101	95.6	5.07	70 - 130	70 - 130
MTBE	ND	10	96.7	101	4.61	107	109	2.30	70 - 130	70 - 130
Benzene	ND	10	105	106	1.47	111	109	1.76	70 - 130	70 - 130
Toluene	ND	10	104	101	2.61	104	100	3.02	70 - 130	70 - 130
Ethylbenzene	ND	10	106	109	2.74	107	107	0	70 - 130	70 - 130
Xylenes	ND	30	95.3	96.3	1.04	95	95.3	0.350	70 - 130	70 - 130
%SS:	107	10	106	108	1.49	112	111	1.11	70 - 130	70 - 130

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

NONE

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

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

<sup>\*</sup> 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.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or 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.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@nccampbell.com

## QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0501088

EPA Method: SW8015C Extraction: SW3550C				Batch	ID: 14615	s	Spiked Sample ID: 0501088-038A					
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (9			
, mory to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
TPH(d)	ND	150	92.4	93.1	0.693	95.3	95.5	0.268	70 - 130	70 - 130		
%SS:	112	50	102	102	0	100	100	0	70 - 130	70 - 130		

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

NONE

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.

MQA/QC Officer



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

## QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0501088

EPA Method: SW8015C	SW35500		Batch	ID: 14598	s					
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Allayte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	150	N/A	N/A	N/A	94.9	95.7	0.872	N/A	70 - 130
%SS:	N/A	50	N/A	N/A	N/A	100	100	0	N/A	70 - 130

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

NONE

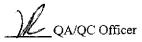
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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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Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

## QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0501088

EPA Method: SW8015C Extraction:			SW35100	0	Batch	ID: 14611	Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (		
- individ	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS/MSD	LCS / LCSI	
TPH(d)	N/A	7500	N/A	N/A	N/A	101	102	1.06	N/A	70 - 130	
%SS:	N/A	2500	N/A	N/A	N/A	105	105	0	N/A	70 - 130	

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

NONE

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.

M QA/QC Officer

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

## **QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0501088

EPA Method: SW8260B	E	Extraction:	SW5030E	3	Batch	ID: 14610	Spiked Sample ID: 0501088-040C					
8 - at 4a	Sample Spike		MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (			
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE		
Chlorobenzene	ND	10	107	108	0.861	101	102	0.490	70 - 130	70 - 130		
1,2-Dichloroethane (1,2-DCA)	ND	10	114	116	1.68	112	110	2.40	70 - 130	70 - 130		
1,1-Dichloroethene	ND	10	87.8	88.6	0.880	82.6	84	1.75	70 - 130	70 - 130		
Trichloroethene	ND	10	93.5	89.5	4.36	84.4	85.2	0.967	70 - 130	70 - 130		
%SS1:	105	10	104	102	1.75	102	101	0.997	70 - 130	70 - 130		
%SS2:	95	10	96	96	0	98	98	0	70 - 130	70 - 130		
%SS3:	106	10	105	108	2.90	107	110	2.99	70 - 130	70 - 130		

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

NONE

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

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels

M\_QA/QC Officer

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

<sup>\*</sup> 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.



Page 1 of 1

A.

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0501088

ClientID: CAS

Report to:

Ryan Meyer

Ceres Associates 840 Watt Avenue Sacramento, CA 95864 TEL: FAX: (916) 485-2110 (916) 485-2110

ProjectNo: #CA1264-1; T-Dev

PO:

Bill to:

Accounts Payable

Ceres Associates 840 Watt Avenue

Sacramento, CA

Requested TAT:

5 days

Date Received: 01/07/2005

Date Printed: 01/08/2005

			•	[					-	Reques	led Test	s (See	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
																		T	
0501088-001	SB1-3	Soil	1/7/05			Α		Α		ļ <u>.</u>						1			
0501088-002	SB1-5	Soil	1/7/05			Α		Α		ļ				<u> </u>	<u> </u>	1			┷
0501088-003	SB1-8	Soil	1/7/05		,	Α		Α			<u> </u>								
0501088-004	SB1-10	Soil	1/7/05			A		Α				İ							
0501088-005	SB2-3	Soil	1/7/05	<b>Y</b>		Α		Α						<u>.</u>	ļ. <u> </u>	<u> </u>			
0501088-006	\$B2-5	Soil	1/7/05			Α		Α								· .	<u> </u>		
0501088-007	\$B2-8	Soil	1/7/05			Α		Α		<u> </u>									
0501088-008	SB2-10	Soil	1/7/05			Α		Α				<u> </u>		ļ <u>.</u>			<u></u>		$\perp$
0501088-009	\$B3-3	Soil	1/7/05	<b>V</b>		Α		Α											
0501088-010	SB3-5	Soil	1/7/05			Α		Α							,			<u> </u>	$\perp$
0501088-011	SB3-8	Soil	1/7/05	V		Α		Α									<u></u>	<u> </u>	
0501088-012	SB3-10	Soil	1/7/05			Α		Α							]				
0501088-013	SB4-3	Soil	1/7/05	<b>✓</b>		Α		Α					<u> </u>	.]		<u> </u>			$\perp$
0501088-014	SB4-5	Soil	1/7/05			Α		Α											$\perp$
0501088-015	SB4-8	Soil	1/7/05			Α		Α											-

#### Test Legend:

1	8010BMS_W
6	
11	

2	G-MBTEX_\$
7	
12	

3	G-MBTEX_W
8	
13	

4	TPH(D)_S	
9		
14		

5	TPH(D)_W
10	
15	

Prepared by: Elisa Venegas

#### Comments:

## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0501088

ClientID: CAS

Report to:

Ryan Meyer Ceres Associates 840 Watt Avenue Sacramento, CA 95864 TEL: FAX: (916) 485-2110 (916) 485-2110

ProjectNo: #CA1264-1; T-Dev PO:

Bill to:

Accounts Payable Ceres Associates

840 Watt Avenue Sacramento, CA Requested TAT:

5 days

Date Received: 01/07/2005

Date Printed: 01/08/2005

				ſ					F	Request	ted Test	s (See l	egend b	elow)					<b>,</b>
Sample ID	CllentSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	В	9	10	11	12	13	14	15
0501088-016	SB5-5	Soil	1/7/05			Α	Τ	A		T	Ţ	T	- <u>í</u>		Ţ	T			
0501088-017	SB5-8	Soil	1/7/05			Α	1	Α											
0501088-018	SB5-10	Soil	1/7/05			Α		Α											<u> </u>
0501088-019	SB6-3	Soil	1/7/05	V		Α	<u> </u>	Α				<u> </u>			<u> </u>				<u> </u>
0501088-020	SB6-5	Soil	1/7/05			Α		Α	-	ļ. <u> </u>					ļ	<del> </del>			
0501088-021	SB6-8	Soil	1/7/05	V		A		A		<u> </u>	.		-		<u> </u>	<u> </u>			<del> </del>
0501088-022	SB6-10	Soil	1/7/05			A		A		<u> </u>		-			ļ	<u> </u>			₩
0501088-023	SB7-3	Soil	1/7/05	V		Α		Α							ļ	· · · · · ·		<u> </u>	-
0501088-024	SB7-5	Soil	1/7/05			Α		Α						ļ	ļ	ļ			<del></del>
0501088-025	SB7-8	Soil	1/7/05			Α		Ą							ļ.				ــــ
0501088-026	SB7-10	Soil	1/7/05			Α		Α						<u> </u>	ļ	ļ	<u> </u>		$\vdash$
0501088-027	SB8-3	Soil	1/7/05	<b>V</b>		Α		Α						ļ	ļ		ļ		
0501088-028	SB8-5	Soil	1/7/05			Α		Α			1			<u> </u>		1.	<u> </u>	<del> </del>	<del>  -</del> -
0501088-029	SB8-8	Soil	1/7/05	<b>V</b>		A		Α				<u> </u>	-		-	1	1	<u> </u>	ـ
0501088-030	SB8-10	Soil	1/7/05			Α		Α						<u> </u>	ļ <u> </u>		1	<u> </u>	<u>L</u>

#### Test Legend:

1	8010BMS_W	
6		
11		

2	G-MBTEX_S
7	V
12	

3	G-MBTEX_W
8	
13	

4	TPH(D)_S
9	
14	

5	TPH(D)_W
10	
15	

Prepared by: Elisa Venegas

## Comments:

## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0501088

ClientID: CAS

Report to:

Ryan Meyer

Ceres Associates 840 Watt Avenue

Sacramento, CA 95864

TEL.:

(916) 485-2110

FAX: (916) 485-2110 ProjectNo: #CA1264-1; T-Dev

PO:

Bill to:

Requested TAT:

5 days

Accounts Payable

Ceres Associates 840 Watt Avenue

Date Received:

01/07/2005

Sacramento, CA Date

Date Printed: 01/08/2005

				-						Reques	sted Tes	ts (See	egend b	elow)					
Sample ID	ClientSamplD	Matrix	Collection Date	Hold	. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	· · ·	<u> </u>				T		1 .	<del></del>				- <del></del>	<del></del>	· · · · · ·		T	1	
0501088-031	SB9-3	Soil	1/7/05	V		A		Α						·		1		-	
0501088-032	SB9-5	Soil	1/7/05			A		Α						ļ	ļ. <u>.</u> .				—
0501088-033	SB9-8	Soil	1/7/05	V		Α		Α								ļ <u>.</u>		<u> </u>	
0501088-034	SB9-10	Soil	1/7/05			Α		Α								ļ			┷
0501088-035	SB10-3	Soil	1/7/05	<b>V</b>		Ą		Α		<u> </u>						<u> </u>			
0501088-036	\$B10-5	Soil	1/7/05			Α		Α	<u> </u>								ļ <u>.</u>	<u> </u>	<u> </u>
0501088-037	SB10-8	Soil	1/7/05	<b>V</b>		A		Α								ļ			
0501088-038	SB10-10	Soil	1/7/05			A		Α										<del> </del>	┷
0501088-039	SB1GW	Water	1/7/05		С		Α		В	eta						ļ		ļ	┷
0501088-040	SB2GW	Water	1/7/05		С		Α		В									<u> </u>	
0501088-041	SB3GW	Water	1/7/05		1		Α		В					1		1.			
0501088-042	SB4GW	Water	1/7/05		-		Α		В								-		
0501088-043	SB5GW	Water	1/7/05			T	Α		В						ļ <u> </u>		ļ		
0501088-044	SB6GW	Water	1/7/05				Α		В										<u> </u>
0501088-045	SB7GW	Water	1/7/05				Α		В							l			

#### Test Legend:

1	8010BMS_W
6	
11	

2	G-MBTEX_S
7	
12	

3	G-MBTEX_W
8	
13	

4	TPH(D)_S
9	
14	

5	TPH(D)_W
10	
15	

Prepared by: Elisa Venegas

#### Comments:





110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

GW2

GW3

GW4

GW5

GW6

WorkOrder: 0501088

ClientID: CAS

Report to:

Ryan Meyer **Ceres Associates** 

840 Watt Avenue

Sacramento, CA 95864

TEL: FAX:

(916) 485-2110 (916) 485-2110

ProjectNo: #CA1264-1; T-Dev

1/7/05

1/7/05

1/7/05

1/7/05

PO:

Water

Water

Water

Water

Bill to:

Accounts Payable

Ceres Associates

840 Watt Avenue Sacramento, CA

В

В

В

Requested TAT:

Date Printed:

5 days

Date Received: 01/07/2005

01/08/2005

									 F	Reques	ted Tes	sts (See	legend	below)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	 5	6	7	8	9	10	11	12	13	14	15
	•						·	.'.	 -										
0501088-046	SB8GW	Water	1/7/05				Α		 В										
0501088-047	SB9GW	Water	1/7/05				Α		В										
0501088-048	\$B10GW	Water	1/7/05				Α		В								<u> </u> -		
0501088-049	GW1	Water	1/7/05				A		В								<u>.</u>		<u> </u>
0501088-050	GW2	Water	1/7/05				Α		В		ļ				1				

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#### Test Legend:

0501088-050

0501088-051

0501088-052

0501088-053

0501088-054

1	8010BMS_W
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11	

2	G-MBTEX_S
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12	

3	G-MBTEX_W	]
8		
13		

4	TPH(D)_S
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14	

5	TPH(D)_W	<u> </u>
10		
15		

Prepared by: Elisa Venegas

#### Comments:

(X)

0501088

M	cCAMPI	BELL	<b>ANAI</b>	YT	ICA	۱L,	IN	C.					Ì					-					C					R			RD	_	
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Webs	ite: <u>www.m.cc</u>	r ACHEC am pholl.s	O, CA 945 com Emai	અ-ə50 દીર ભ્રાપ્ત	n da@m	cem	npbe	H.co	mį.				1	***	re was	n		10 1	7¥		J	IV				24		(D)	(8 E) (37)		72.1	HR	5 DAY
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Tele: (916) 4 8 Project #: CA1	3/14/2			rejeci									-	Gas (602 / 8021	802	0	4	18.1)	್ದ ರ	्र	roctor		tides			(§	916	1074				١	analysis: Yes / No
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# APPENDIX B PERMITS



COUNTY OF ALAMEDA PUBLIC WORKS AGENCY WATER RESOURCES SECTION 399 Elmhurst Street, Hayward, CA 94544-1395 James Yoo PH; (510) 670-6633 FAX; (510) 782-1939 FOR GENERAL DRILLING PERMIT INFO: www.acgov.org/pwa/wells

## FAX TRANSMITTAL

(ejes Associates

Attn: Ryan Megar

DATE: /-3-25

FAX NO .: (916) 485-210

TRANSMITTING THE FOLLOWING:

SHEETS

TITLE/DESCRIPTION

W05-0001 & Conditions

TOTAL PAGES INCLUDING THIS SHEET.

FROM WATER RESOURCES SECTION

NAME:

JAMES YOO

TEL: (510) 670-6633

FAX: (510) 782-1939

E-MAIL: jamesy@acowa.org

IF YOU EXPERIENCE PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL ME.

REMARKS: FYI: EFFECTIVE NOVEMBER 1, 2004

- See Conditions of Approved.

Alarneda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

Please contact George Bolton at 510-670-5594 to schedule the inspection date and time (You must have drilling permit approved prior to scheduling)>

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the Inspector can be reached if they are not at the site when inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of \$:30mm to 2.30pm... Monany to Friday, excluding holidays.



## ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94844-1395
PHONE (510) 674-6433 James Von

FAX (SIE YEI-1939

APPLICANTS: PLEASE ATTACH A SITE MAP POR ALL DRELLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 PEET REQUIRES A SEPARATE PERMIT APPLICATION

## DRILLING PERMIT APPLICATION

POR APPLICANT TO COMPLETE	FUR OFFICE USE
LOCATION OF PROJECT 254 7 Fast 27th St.	PERMIT NUMBER WO 5 - 000
bakland, CA.	WELL NUMBER
	APN
	PERMIT CORDITIONS
	Circled Permil Requirements Apply
Name Town or now Development	A. GENERAL
Address 14 57 Herrison St. 66 41 Printer	A promit application should be submitted to as to
City Daklama 210 44612	arrive at the ACPWA differ five days inforto
ATTING NOVA NOT	proposed starting date.  I Submit to ACPWA within 60 days after completion of
NOW RYAN MAYON - CARE ASSOCIATES	permitted original Department of Water Resources
Fex 910-485-2110	Wali Camplatan Report
Address 940 your Ave Phone 110-405-2110	3. Permit is wind if project not begun within 90 days of
City Saccamendo Zip 93864	approval dato p. Water Supply Wells
	1. Ministeres starface weal theckerage is two inches of
Type of Project	coment most placed by treatly
Well Construction Geotechnical Investigation Collection G General B	<ol> <li>Minimum and depth is 50 foot for managinal and Industrial wells or 20 foot for demostic and invigation</li> </ol>
Water Simply I Contamination	wells unless a leaser depth is aperially approved.
Montaging D Well Destruction O	C. GROUNDWATER MONITORING WELLS INCLINING PERSONNETERS
PROPOSED WATER SUPPLY WELL USE	I. Missions surface seal thickness is two inches of
New Despection C Replacement Dumentity D	content great placed by trunis.
Municipal D Infiguration D Infiguration D	2. Minimum scal depth for monitoring weeks is the
industrial U Other O	D. GEOTECHNICAL/CONTAMINATION
DBILLING METHOD:	Backfill born bole by tractic with commute grown or compant
Almi Rotory D Air Rotory D Auger D	grounts and natural. Upper two-three feet replaced in kind
cash o other X Direct Push	E. CATHODIC
DRITTER'S NAME VICONOX	Fili hole anode zine with concrete placed by tremis.
DRILLER'S LIKENSE NO. # 705 927	F. WELL DESTRUCTION
Drutter berende No.	Send a map of work nite. A separate permit is required for wells deeper than 45 feet.
	G. INECIAL CONDITIONS Q
WELL PROJECTS Delli Hole Dissector in Maximum.	Manual and the state of the sta
Caring Distractor Depth R.	MOTE: One application used be submissed for each well or well destruction are acceptable
Surface Seal Depth # 12 Owner's Well Number	for Ecoto-fraint and communication intensignations.
GEOTECHNICAL/CONTAMINATION PROJECTS	•
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APPLICANT'S SEGNATURE TO CASTON TO DATE	121/04 / V
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## ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James You FAX (510) 782-1939

## **PERMIT NO. W05-0001**

# WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE B#1-GENERAL CONDITIONS: GEOTECHNICAL & CONTAMINATION BOREHOLES

- Prior to any drilling activities, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that Federal, State, County or to the City and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
- 4. Permit is valid only for the purpose specified herein January 6 to January 7, 2005. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
- 5. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond minety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 6. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

7. Applicant shall contact George Holton for a inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved.

Changed to James you @ 510-690-6633 Inspection bes not haveto be present the start Inspection Jy.