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April 25, 2005

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Groundwater Monitoring Report – First Quarter 2005**
1137-1167 65th Street
Oakland, California
Case No. RO0000082

Dear Mr. Chan:

On behalf of Mr. John Nady, Cambria Environmental Technology, Inc. is submitting the *Groundwater Monitoring Report – First Quarter 2005*. Presented in this report is a summary of the field activities and a presentation of the results for the first quarter 2005 groundwater monitoring event. In addition, this report contains recommendations for second quarter 2005 activities.

If you have any questions, please feel free to call me at (510) 420-3307.

Sincerely,
Cambria Environmental Technology, Inc.

Neal E. Siler, P.G., R.E.A.
Senior Project Geologist

Attachment: *Groundwater Monitoring Report – First Quarter 2005*

cc: Mr. Frederic Schrag, 6701 Shellmound Street, Emeryville, California 94608 (3 Copies)

Cambria Environmental Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

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GROUNDWATER MONITORING REPORT – FIRST QUARTER 2005

1137-1167 65th Street
Oakland, California 94608
Case No.: RO0000082

April 25, 2005

Prepared for Submittal to:

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Prepared by:

Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608

Matthew A. Meyers
Project Geologist

Neal E. Siler, P.G., R.E.A.
Senior Project Geologist

Cambria Environmental Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

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GROUNDWATER MONITORING REPORT – FIRST QUARTER 2005

1137-1167 65th Street
Oakland, California 94608
Case No.: RO0000082

April 25, 2005

INTRODUCTION

This report describes the first quarter 2005 groundwater monitoring activities performed at 1137-1167 65th Street, Oakland, California (Figure 1). This groundwater monitoring event was conducted at the direction of the Alameda County Health Care Services Agency, Environmental Health Division (ACHCSA). This report presents a summary of the monitoring activities and results for the first quarter 2005. In addition, this report contains recommendations for second quarter 2005 activities.

MONITORING ACTIVITIES

On March 14 and 15, 2005, Cambria coordinated with Muskan Environmental Sampling (MES) to perform quarterly groundwater monitoring activities at the site. MES measured groundwater levels and collected groundwater samples from monitoring wells MW-1A through MW-4A, MW-6A, MW-7A, MW-1B, MW-4B, MW-5B, MW-6B, MW-1C, MW-4C, and MW-6C (Figure 2). Copies of the field data sheets are included as Appendix A.

Water Level Measurements: Depth to groundwater measurements were recorded to the nearest 0.01-foot, relative to a previously established reference elevation. Measurements were collected using an electric, conductance-actuated well sounder. The groundwater level measurement data are summarized in Table 1.

Groundwater Sampling: MES collected groundwater samples from wells MW-1A through MW-4A, MW-6A, MW-7A, MW-1B, MW-4B, MW-5B, MW-6B, MW-1C, MW-4C, and MW-6C. Field activities associated with the sampling event included well purging, field water quality measurements, sample collection, and equipment decontamination.

Prior to sampling, the wells were purged to remove standing water in the well casings and promote the inflow of representative groundwater from the surrounding formation. The wells were purged by

repeated bailing using a new, pre-cleaned, disposable Teflon™ bailer. Field measurements of the pH, specific conductance, and temperature of the purged groundwater were measured initially and after the extraction of each successive casing volume or at regular volume intervals. Casing volumes were calculated based on the well diameter and the height of the water column in the well casing. Typically, well purging continued until consecutive pH, specific conductance, and temperature measurements were within 10 percent. Field water quality measurements, purge volumes and sample collection data were recorded on field sampling data forms (Appendix A).

Groundwater samples were collected from each of the wells using disposable bailers. The samples were decanted from the bailers into 40-ml glass volatile organic analysis (VOA) vials supplied by McCampbell Analytical, Inc. (McCampbell) of Pacheco, California. Immediately after collection, the sample containers were labeled and placed on water-based ice in a cooler. Chain-of-custody procedures were followed at all times from sample collection to transfer to McCampbell (Appendix B).

To minimize the potential for cross-contamination, the groundwater monitoring equipment was decontaminated prior to being deployed in the first monitoring well and between successive wells. The probe of the electric well sounder used for water level measurements was rinsed thoroughly with distilled water prior to first use and between subsequent water level measurements. The disposable bailers were discarded after use at each well.

Groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as motor oil (TPHmo), and total petroleum hydrocarbons as stoddard solvent (TPHss) by modified United States Environmental Protection Agency (EPA) Method SW8015C. Aromatic hydrocarbon compounds [benzene, toluene, ethylbenzene, total xylenes (BTEX)] and methyl tertiary-butyl ether (MTBE) were quantified by EPA Method SW8021B. Samples were also analyzed for halogenated volatile organic compounds (HVOCs) by EPA Method SW8260B, but only reported for the EPA Method SW8010 target list. Samples marked for TPHd and TPHmo analysis were subjected to silica gel cleanup prior to analysis. Laboratory analytical reports are included in Appendix B. Analytical results are summarized on Figures 2, 3, and 4 and in Tables 1 and 2.

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RESULTS

Groundwater Flow Direction and Gradient: Depth-to-water measurements collected on March 14, 2005 ranged from 1.70 to 6.91 feet below top of casing. Groundwater elevations were calculated by subtracting the depth to water measurements from the surveyed top of casing elevations. The groundwater elevations for A, B, and C-zone aquifers were each plotted on a site plan and contoured. The groundwater in the A-zone flowed predominantly towards the west with a gradient of approximately 0.011 feet per foot (ft/ft) (Figure 2). The groundwater in the B-zone flowed towards the west-southwest with a gradient of approximately 0.022 ft/ft (Figure 3). The groundwater in the C-zone aquifer flowed towards the southwest with a gradient of approximately 0.009 ft/ft (Figure 4). The previously calculated groundwater flow direction and gradient for the A-zone aquifer trended to the southwest with gradients between of 0.034 and 0.038. The previously calculated groundwater flow direction and gradients for the B-zone aquifer trended to the southeast with gradient of 0.031. The groundwater flow direction and gradient for the C-zone aquifer are consistent with the previous quarter's results. Depth-to-water and groundwater elevation data for the site are summarized in Table 1.

Chemicals Detected in the A-Zone Aquifer: Petroleum hydrocarbons were detected in the A-zone aquifer monitoring wells MW-1A, MW-2A, MW-3A, MW-4A, MW-6A, and MW-7A. The maximum TPHd concentration was detected in well MW-3A at 37,000 micrograms per liter (µg/L). Maximum TPHg and TPHss concentrations were detected in well MW-1A at 4,800 µg/L and 6,000 µg/L, respectively. The maximum TPHmo concentration was detected in well MW-7A at 620 µg/L.

MTBE was not detected in the A-zone aquifer monitoring wells. Benzene was detected in monitoring wells MW-1A and MW-4A at concentrations of 0.68 µg/L and 0.91 µg/L, respectively. Toluene was detected in monitoring wells MW-2A and MW-4A at concentrations of 2.5 µg/L and 1.7 µg/L, respectively. Ethylbenzene was detected in monitoring well MW-1A at a concentration of 2.0 µg/L. Xylenes were detected in monitoring wells MW-1A and MW-4A at concentrations of 6.8 µg/L and 1.9 µg/L, respectively.

HVOCs were detected in the A-zone aquifer in monitoring wells MW-1A, MW-3A, MW-4A, MW-6A, and MW-7A. The HVOCs 1,1-dichloroethane (1,1-DCA), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride were detected in monitoring well MW-1A at concentrations of 2.4 µg/L, 12 µg/L, 32 µg/L, 2.2 µg/L, and 8.0 µg/L, respectively. Tetrachloroethene (PCE) was detected in monitoring wells MW-1A and MW-4A at concentrations of 42 µg/L and 1.1 µg/L, respectively. The chlorinated benzene compound 1,2-dichlorobenzene (1,2-DCB) was detected in monitoring wells MW-1A, MW-3A, and MW-7A at concentrations of 2.0 µg/L, 43 µg/L, and 2.6 µg/L, respectively. In addition, 1,3-dichlorobenzene and 1,4-dichlorobenzene were detected in well MW-3A at concentrations of 1.2 µg/L and 5.7 µg/L,

respectively. Chloroethane was detected in well MW-6A at a concentration of 0.61 µg/L. No HVOCs were detected in well MW-2A. Groundwater analytical data is summarized in Tables 1 and 2 and presented on Figure 2.

Chemicals Detected in the B-Zone Aquifer: TPHd was only detected in B-zone aquifer monitoring wells MW-1B and MW-6B at concentrations of 52 µg/L and 5,200 µg/L, respectively. TPHg, TPHss, and TPHmo were only detected in well MW-6B at concentrations of 1,300 µg/L, 1,200 µg/L, and 340 µg/L, respectively. Benzene was detected in monitoring well MW-1B (0.60 µg/L) and was the only aromatic hydrocarbon compound detected in the B-zone aquifer.

HVOCs were detected in B-zone aquifer wells MW-1B and MW-6B. Chloroethane, chloroform, 1,1-DCA, 1,2-dichloroethane (1,2-DCA), and cis-1,2-DCE were also detected in well MW-1B at concentrations of 1.1 µg/L, 1.9 µg/L, 5.2 µg/L, 12 µg/L, and 3.8 µg/L, respectively. The chlorinated benzene compound 1,2-DCB and vinyl chloride were detected in well MW-6B at concentrations of 1.1 µg/L and 3.5 µg/L, respectively. No HVOCs were detected in wells MW-4B or MW-5B. Groundwater analytical data is summarized in Tables 1 and 2 and presented on Figure 3.

Chemicals Detected in the C-Zone Aquifer: TPHd was only detected in monitoring well MW-6C (60 µg/L). No other petroleum hydrocarbons, BTEX, or MTBE were detected at or above laboratory reporting limits in any of the C-zone aquifer monitoring wells.

HVOCs were only detected in C-zone aquifer monitoring wells MW-6C. The HVOCs 1,1-DCA, cis-1,2-DCE, PCE, TCE, and vinyl chloride were detected in the C-zone aquifer well MW-6C at concentrations of 1.1 µg/L, 12 µg/L, 1.8 µg/L, 1.9 µg/L, and 2.3 µg/L, respectively. Groundwater analytical data is summarized in Tables 1 and 2 and presented on Figure 4.

RECOMMENDED SECOND QUARTER 2005 ACTIVITIES

Cambria makes the following recommendations:

- Conduct a quarterly groundwater monitoring event during the second quarter 2005. A report detailing the activities and findings of the second quarter 2005 event should be submitted to ACHCSA by July 29, 2005.

- Pending State Water Resources Control Board approval, subsequent groundwater analytical and well gauging data should be uploaded to GeoTracker in compliance with California State Assembly Bill 592.

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ATTACHMENTS

Figure 1 – Vicinity Map
Figure 2 – Groundwater Flow and Chemical Concentrations – A Zone
Figure 3 – Groundwater Flow and Chemical Concentrations – B Zone
Figure 4 – Groundwater Flow and Chemical Concentrations – C Zone

Table 1 – Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons
Table 2 – Groundwater Analytical and Elevation Data: Halogenated Volatile Organic Compounds

Appendix A – Field Data Sheets
Appendix B – Laboratory Analytical Reports

FIGURES

12/19/02

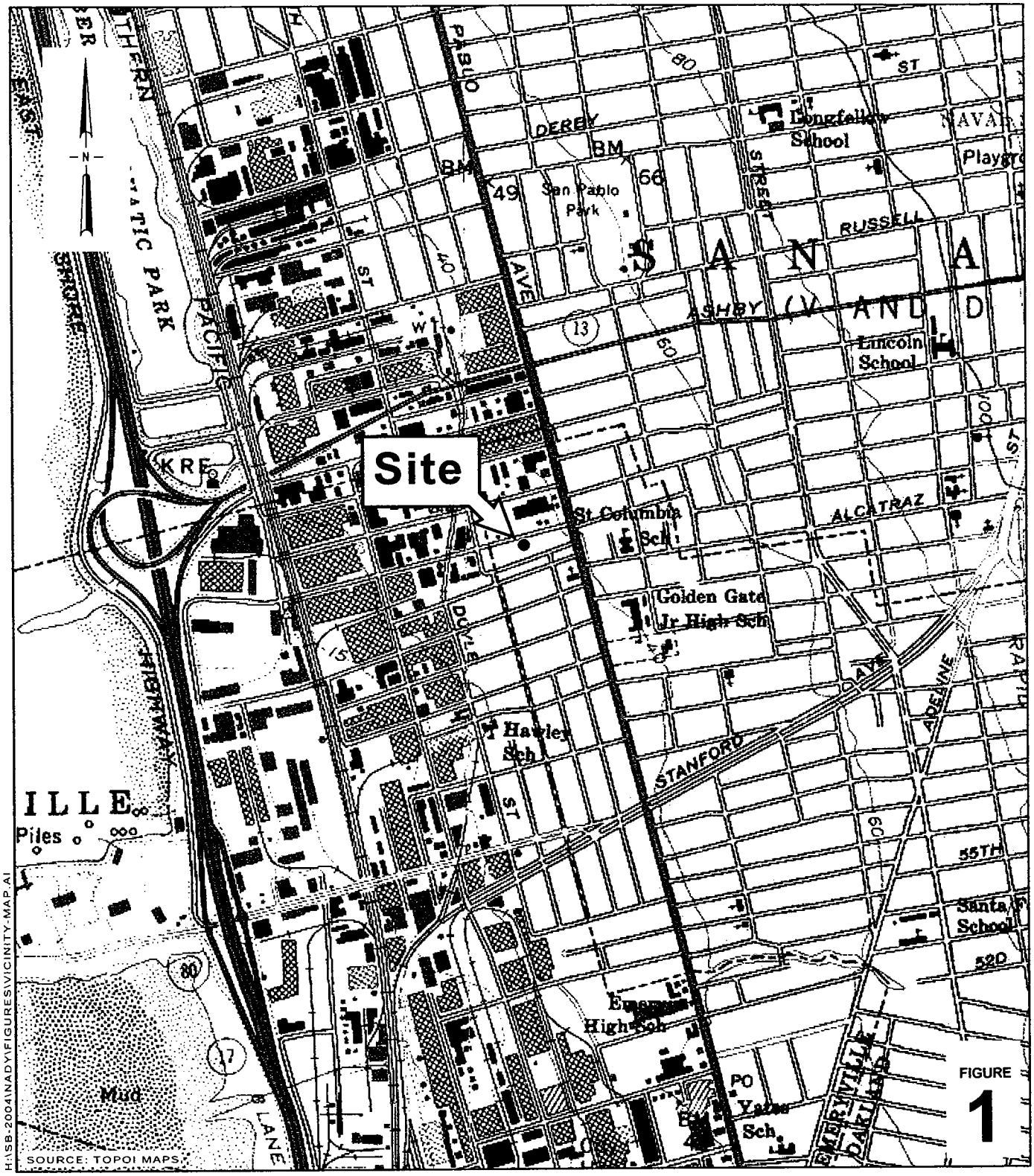

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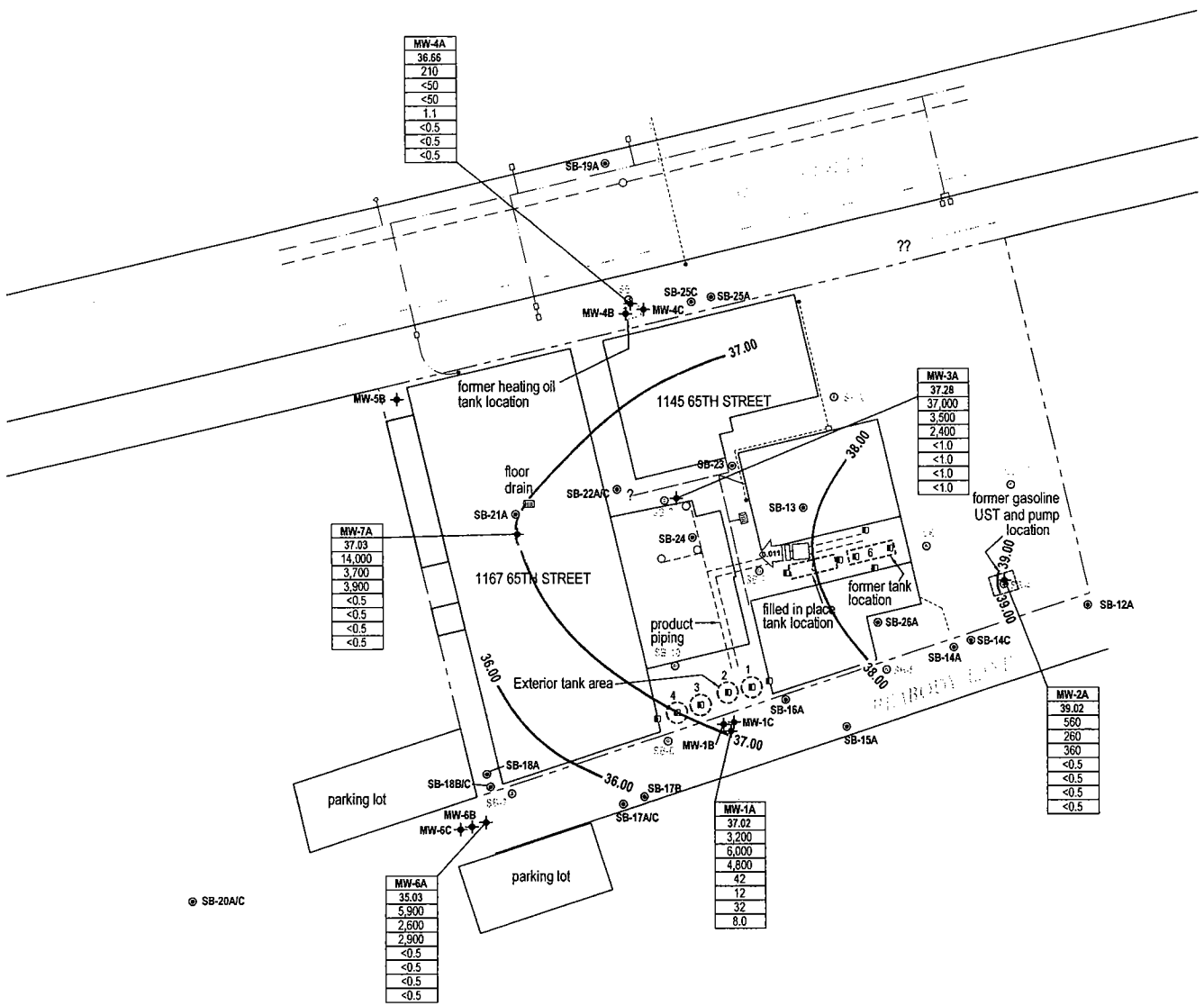
FIGURE 1

Vicinity Map

1137 - 1167 65th Street

Oakland, California

CAMBRIA



EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- Cambria soil boring/temporary well location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 39.00 — Groundwater elevation contour line in feet above mean sea level (MSL), dashed where inferred
- 0.011 — Groundwater flow direction and gradient

Well ID	Monitoring Well Designation
ELEV.	Groundwater elevation in feet above mean sea level (MSL)
TPHd	Concentrations in groundwater in parts per billion
TPHss	
TPHg	
PCE	
TCE	
cis-1,2-DCE	
Vinyl Chloride	

N

0 20 40 80

Scale (ft)

FIGURE

2

Groundwater Flow and Chemical Concentrations - A Zone

March 14-15, 2005

CAMBRIA

1137 - 1167 65th Street
Oakland, California

04/05/05

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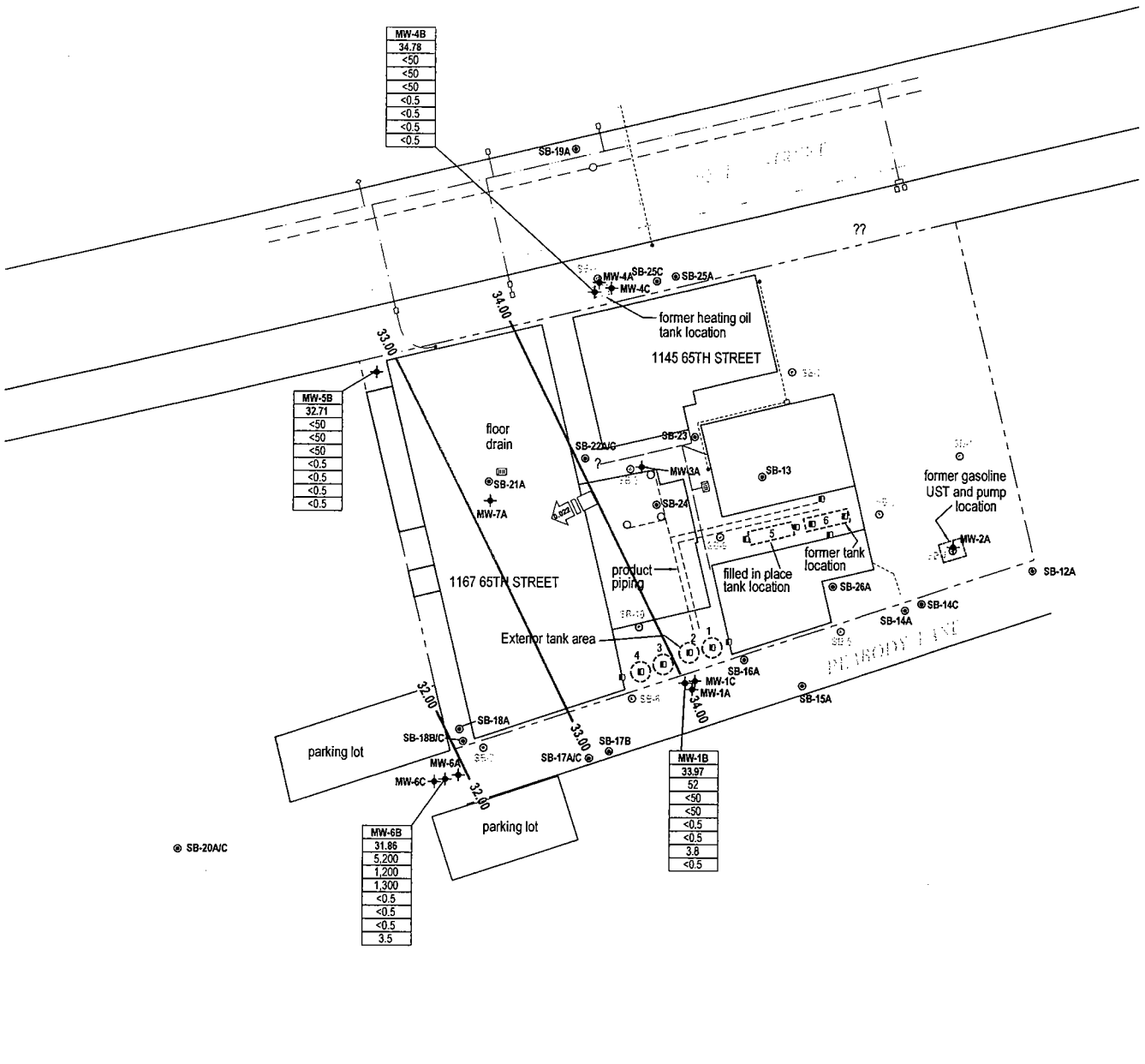


EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- Cambria soil boring/temporary well location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 34.00 — Groundwater elevation contour line in feet above mean sea level (MSL)
- 0.022 — Groundwater flow direction and gradient

Well ID	Monitoring Well Designation
ELEV.	Groundwater elevation in feet above mean sea level (MSL)
TPHd	
TPHss	
TPHg	Concentrations in groundwater in parts per billion
PCE	
TCE	
cis-1,2-DCE	
Vinyl Chloride	

N

0 20 40 80

Scale (ft)

FIGURE

3

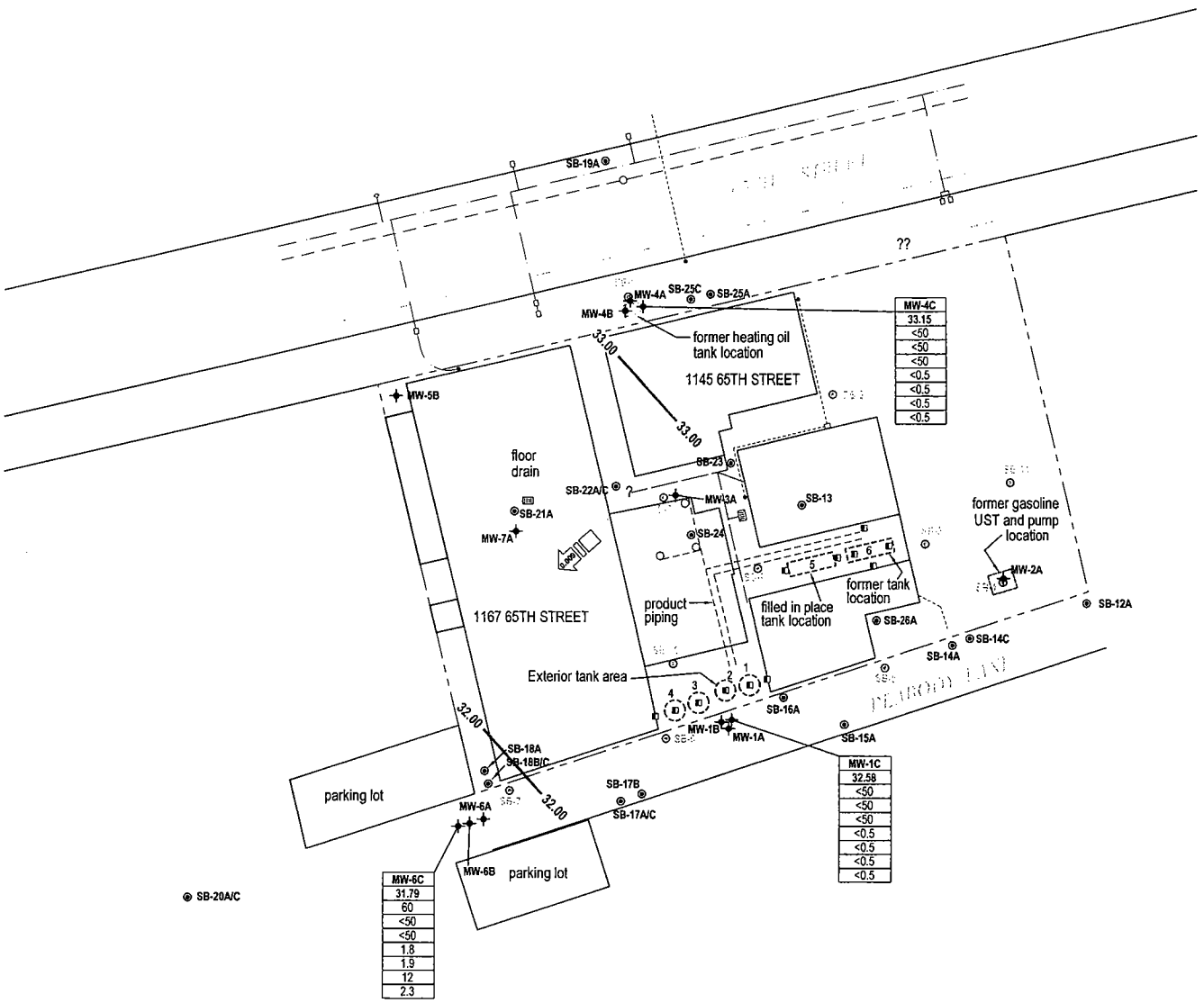
Groundwater Flow and Chemical Concentrations - B Zone

March 14-15, 2005

CAMBRIA

1137 - 1167 65th Street
Oakland, California

03/31/05



EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- Cambria soil boring/temporary well location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 32.00 — Groundwater elevation contour line in feet above mean sea level (MSL)
- 0.009 — Groundwater flow direction and gradient

Well ID
ELEV.
TPHd
TPHss
TPHg
PCE
TCE
cis-1,2-DCE
Vinyl Chloride

Monitoring Well Designation

Groundwater elevation in feet above mean sea level (MSL)

Concentrations in groundwater in parts per billion

Groundwater Flow and Chemical Concentrations - C Zone

March 14-15, 2005

CAMBRIA

N

0 20 40 80

Scale (ft)

FIGURE

4

1137 - 1167 65th Street
Oakland, California

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TABLES

Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

Well ID *TOC* *(ft*)*	Date Sampled	Groundwater Elevation (ft)	Depth to Water (ft)	TPHd	TPHg	TPHmo	TPHss	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
				← µg/L →									
California MCLs				--	--	--	--	1.0	150	300	1,750	13	
ESL - Not a Potential Drinking Water Source				640	500	640	500	46	130	290	13	1,800	
MW-1A	6/3/2004	35.14	4.50	1,300	1,400	260	2,500	<0.5	<0.5	2.0	11	<5.0	
39.64	11/23/2004	36.54	3.10	1,400	2,300	<250	2,800	0.64	<0.5	2.5	9.7	6.8	a,b,c
	3/14/2005	**37.02**	**2.62**	**3,200**	**4,800**	**<250**	**6,000**	**0.68**	**<0.5**	**2.0**	**6.8**	**<5.0**	**d,e**
MW-1B	6/3/2004	25.10	14.40	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
39.50	11/23/2004	26.24	13.26	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/14/2005	**33.97**	**5.53**	**52**	**<50**	**<250**	**<50**	**0.60**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**d,i**
MW-1C	6/3/2004	30.07	9.42	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
39.49	11/23/2004	31.30	8.19	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/14/2005	**32.58**	**6.91**	**<50**	**<50**	**<250**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**f**
MW-2A	6/3/2004	36.48	4.24	2,900	1,700	<250	3,500	<0.5	3.5	4.9	5.1	<5.0	
40.72	11/23/2004	37.83	2.89	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/14/2005	**39.02**	**1.70**	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**560**	**360**	**450**	**260**	**<0.5**	**2.5**	**<0.5**	**<0.5**	**<5.0**	**e,d,g,i**
MW-3A	6/3/2004	36.56	4.32	90,000	4,800	6,000	12,000	<5.0	<5.0	<5.0	<5.0	<50	
40.88	11/23/2004	37.89	2.99	22,000	3,800	<2,500	5,700	<5.0	<5.0	<5.0	<5.0	<50	a,c,d
	3/14/2005	**37.28**	**3.60**	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**37,000**	**2,400**	**<2,500**	**3,500**	**<1.7**	**<1.7**	**<1.7**	**<1.7**	**<17**	**e,d,i**
MW-4A	6/3/2004	36.26	2.45	270	<50	440	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
38.71	11/23/2004	37.13	1.58	73	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	d
	3/14/2005	**36.66**	**2.05**	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**210**	**<50**	300	**<50**	**0.91**	**1.7**	**<0.5**	**1.9**	**<5.0**	**g,d,f,i**

Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

Well ID *TOC* *(ft*)*	Date Sampled	Groundwater Elevation (ft)	Depth to Water (ft)	TPHd	TPHg	TPHmo	TPHss	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
				←				µg/L				→	
California MCLs				--	--	--	--	1.0	150	300	1,750	13	
ESL - Not a Potential Drinking Water Source				640	500	640	500	46	130	290	13	1,800	
MW-4B	6/3/2004	33.52	5.02	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
38.54	11/23/2004	34.65	3.89	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/14/2005	**34.78**	**3.76**	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<50**	**<50**	**<250**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**i**
MW-4C	6/3/2004	30.10	8.40	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
38.50	11/23/2004	31.31	7.19	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/14/2005	**33.15**	**5.35**	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<50**	**<50**	**<250**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**i**
MW-5B	6/3/2004	30.16	8.82	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
38.98	11/23/2004	31.32	7.66	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/14/2005	**32.71**	**6.27**	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<50**	**<50**	**<250**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**i**
MW-6A	6/3/2004	31.98	6.00	3,500	970	340	2,400	<0.5	<0.5	<0.5	2.1	<5.0	
37.98	11/23/2004	33.13	4.85	1,400	1,900	<250	3,000	<0.5	<0.5	<0.5	3.0	<5.0	a,c
	3/14/2005	**35.03**	**2.95**	**5,900**	**2,900**	**<250**	**2,600**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<50**	**e,d,i**
MW-6B	6/3/2004	29.36	8.30	2,300	1,100	<250	2,900	<0.5	<0.5	<0.5	1.4	<5.0	
37.66	11/23/2004	30.53	7.13	280	500	<250	700	<0.5	<0.5	<0.5	1.6	<5.0	a,c
	3/14/2005	**31.86**	**5.80**	**5,200**	**1,300**	**340**	**1,200**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**e,d,i**
MW-6C	6/3/2004	27.89	9.70	240	160	<250	340	<0.5	<0.5	<0.5	1.1	<5.0	
37.59	11/23/2004	29.21	8.38	<50	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/14/2005	**31.79**	**5.80**	**60**	**<50**	**<250**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**d**
MW-7A	6/3/2004	36.08	4.50	--	3,900	--	9,900	<5.0	<5.0	<5.0	6.6	<50	
40.58	11/23/2004	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2005	**37.03**	**3.55**	**14,000**	**3,900**	**620**	**3,700**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<50**	**c,d,h**

Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - 1137-1167 65th Street, Oakland, California

Well ID	Date	Groundwater	Depth									
TOC	Sampled	Elevation	to Water	TPHd	TPHg	TPHmo	TPHss	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
(ft)*		(ft)	(ft)	←				µg/L				→	
California MCLs				--	--	--	--	1.0	150	300	1,750	13	
ESL - Not a Potential Drinking Water Source				640	500	640	500	46	130	290	13	1,800	

Abbreviations:

TOC (ft)* = Top of casing elevation in feet above mean sea level

µg/L = micrograms per liter - approximately equal to parts per billion = ppb

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method SW8015C with silica gel cleanup.

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method SW8015C.

TPHmo = Total petroleum hydrocarbons as motor oil by modified EPA Method SW8015C with silica gel cleanup.

TPHss = Total petroleum hydrocarbons as stoddard solvent by modified EPA Method SW8015C.

Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B.

MTBE = Methyl tertiary-butyl ether by EPA Method SW8021B (EPA Method SW8260).

-- = Not available

California MCLs = California Department of Health Services Maximum Contaminant Levels; Drinking water standards established by the Department of Health Services. Title 22, California Code of Regulations, Section 64444, Table 64444-A.

ESL = Not A Potential Drinking Water Source IV, Table B. [*Screening for Environments Concerns at Site With Contaminated Soil and Groundwater, Volumes 1 and 2. Interim Final. California Regional Water Quality Control Board - San Francisco Bay Region.*] July 2001.

Notes:

a = TPH pattern that does not appear to be derived from gasoline (stoddard solvent/mineral spirit?).

b = No recognizable pattern.

c = Stoddard solvent/mineral spirit.

d = Diesel range compounds are significant; no recognizable pattern.

e = Gasoline range compounds are signifcant.

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 contains greater than ~1 vol. % sediment.

CAMBRIA

Table 2. Groundwater Analytical and Elevation Data: Halogenated Volatile Organic Compounds - 1137-1167 65th Street, Oakland, California

Well ID *TOC* *(ft*)*	Date Sampled	Groundwater Elevation (ft)	Depth to Water (ft)	Chloroethane	Chloroform	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Trichloroethene	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	Vinyl Chloride	Notes
				←					µg/L					→	
California MCLs				--	100 (a)	1	5	5	600	6	10	5	0.5	0.5	
ESL - Not a Potential Drinking Water Source				12	330	190	120	360	14	590	590	47	200	3.8	
MW-1A	6/3/2004	35.14	4.50	<2.5	<2.5	<2.5	55	16	<2.5	36	<2.5	<2.5	<2.5	6.3	
39.64	11/23/2004	36.54	3.10	<1.0	<1.0	<1.0	38	11	<1.0	51	2.4	2.8	<1.0	9.5	
	3/14/2005	**37.02**	**2.62**	**<1.0**	**<1.0**	**<1.0**	**42**	**12**	**2.0**	**32**	**2.2**	**2.4**	**<1.0**	**8.0**	
MW-1B	6/3/2004	25.10	14.40	<0.5	8.3	<0.5	<0.5	<0.5	<0.5	3.9	<0.5	8.1	7.9	<0.5	
39.50	11/23/2004	26.24	13.26	<0.5	6.2	<0.5	<0.5	<0.5	<0.5	2.5	<0.5	8.4	8.8	<0.5	
	3/14/2005	**33.97**	**5.53**	**1.1**	**1.9**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3.8**	**<0.5**	**5.2**	**12**	**<0.5**	i
MW-1C	6/3/2004	30.07	9.42	<0.5	0.57	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
39.49	11/23/2004	31.30	8.19	<0.5	0.56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/14/2005	**32.58**	**6.91**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	i
MW-2A	6/3/2004	36.48	4.24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
40.72	11/23/2004	37.83	2.89	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/14/2005	**39.02**	**1.70**	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	i
MW-3A	6/3/2004	36.56	4.32	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	a
40.88	11/23/2004	37.89	2.99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	3/14/2005	**37.28**	**3.60**	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**43**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	j, l, 1,3-dichlorobenzene (1.2), 1,4-dichlorobenzene (5.7)
MW-4A	6/3/2004	36.26	2.45	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
38.71	11/23/2004	37.13	1.58	<0.5	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/14/2005	**36.66**	**2.05**	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<0.5**	**<0.5**	**<0.5**	**1.1**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	i
MW-4B	6/3/2004	33.52	5.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
38.54	11/23/2004	34.65	3.89	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/14/2005	**34.78**	**3.76**	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	i
MW-4C	6/3/2004	30.10	8.40	<0.5	0.84	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
38.50	11/23/2004	31.31	7.19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/14/2005	**33.15**	**5.35**	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	i
MW-5B	6/3/2004	30.16	8.82	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
38.98	11/23/2004	31.32	7.66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/14/2005	**32.71**	**6.27**	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005	--	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	i
MW-6A	6/3/2004	31.98	6.00	4.7	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	2.1	<0.5	6.7	
37.98	11/23/2004	33.13	4.85	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

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Table 2. Groundwater Analytical and Elevation Data: Halogenated Volatile Organic Compounds - 1137-1167 65th Street, Oakland, California

Well ID	Date	Groundwater	Depth												
TOC	Sampled	Elevation	to Water	Chloroethane	Chloroform	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Trichloroethene	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	Vinyl Chloride	Notes
(ft)*		(ft)	(ft)	←					µg/L					→	
California MCLs				--	100 (a)	1	5	5	600	6	10	5	0.5	0.5	
ESL - Not a Potential Drinking Water Source				12	330	190	120	360	14	590	590	47	200	3.8	
	3/14/2005	**35.03**	**2.95**	**0.61**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	i
MW-6B	6/3/2004	29.36	8.30	0.65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
37.66	11/23/2004	30.53	7.13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.89	<0.5	<0.5	
	3/14/2005	**31.86**	**5.80**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**1.1**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3.5**	i
MW-6C	6/3/2004	27.89	9.70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	0.61	<0.5	<0.5	
37.59	11/23/2004	29.21	8.38	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/14/2005	**31.79**	**5.80**	**<0.5**	**<0.5**	**<0.5**	**1.8**	**1.9**	**<0.5**	**12**	**<0.5**	**1.1**	**<0.5**	**2.3**	
MW-7A	6/3/2004	36.08	4.50	<0.5	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<0.5	<0.5	
40.58	11/23/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2005	**37.03**	**3.55**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2.6**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	h

Abbreviations:

TOC (ft)* = Top of casing elevation in feet above mean sea level

µg/L = micrograms per liter - approximately equal to parts per billion = ppb

Halogenated Volatile Organic Compounds analyzed by EPA Method SW8260B.

California MCLs = California Department of Health Services Maximum Contaminant Levels; Drinking water standards established by the Department of Health Services. Title 22 California, Code of Regulations, Section 64444, Table 64444-A.

ESL = Not A Potential Drinking Water Sourve IV, Table B. *Screening for Environments Concerns ar Site With Contaminated Soil and Groundwater, Volumes 1 and 2. Interim Final. California Regional Water Quality Control Board - San Francisco Bay Region.* February 2005.

-- = Not available

Notes:

a = Total Trihalomethanes

b = Sample diluted due to high organic content

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

APPENDIX A

Field Data Sheets

MUSKAN
ENVIRONMENTAL
SAMPLING

DAILY REPORT

Client:	**Cambria Environmental Technology**
Project:	**Nady Systems**
Site Address:	**1137 - 1167 65th Street Oakland, CA**
Date:	**3/14/2005 - 3/15/05**
Time	**Activity**
8:00 AM	Arrived onsite
8:30 AM	Opened all well boxes
9:30 AM	Began gauging wells
12:00 PM	Began sampling
	Sampled wells MW-1A, MW-1B, MW-1C, MW-6A, MW-6B, MW-6C,
	and MW-7A
	Generated one drum of purgewater.
3:00 PM	Left Site
	3/15/2005
7:30 AM	Arrived onsite
7:55 AM	Began sampling
	Sampled wells MW-2A, MW-3A, MW-4A, MW-4B, MW-4C, and MW-5B
10:15 AM	Finished sampling
	All well boxes in good condition
10:45 AM	Left site

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL GAUGING SHEET

Client: Cambria Environmental Technology

Site Address: 1137-1167 65th Street Oakland, CA

Date: 3/14/2005 **Signature:**

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1A	10:15		2.62		14.35	
MW-1B	9:30		5.53		19.70	
MW-1C	9:35		6.91		34.55	
MW-2A	9:40		1.70		11.15	
MW-3A	10:30		3.60		13.98	
MW-4A	9:45		2.05		12.61	
MW-4B	9:50		3.76		20.80	
MW-4C	9:55		5.35		32.00	
MW-5B	10:00		6.27		23.00	
MW-6A	10:25		2.95		14.43	
MW-6B	10:10		5.80		21.95	

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL GAUGING SHEET

Client: Cambria Environmental Technology

Site Address: 1137-1167 65th Street Oakland, CA

Date: 3/14/2005 **Signature:**

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-6C	10:05		5.80		33.85	
MW-7A	10:20		3.55		10.02	

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-1A
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	14.35
Depth to Water:	2.62
Water Column Height:	11.73
Volume/ft:	0.16
1 Casing Volume (gal):	1.88
3 Casing Volumes (gal):	5.63

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
1:15	1.9	24.8	6.99	540
1:20	3.8	24.9	7.06	578
1:25	5.6	24.9	7.03	592

Fe= **mg/L**

ORP= **mV**

DO= **mg/L**

COMMENTS:
Turbid

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-1A	3/14/2005	1:30	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, TPHd/mo, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-1B
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	19.70
Depth to Water:	5.53
Water Column Height:	14.17
Volume/ft:	0.16
1 Casing Volume (gal):	2.27
3 Casing Volumes (gal):	6.80

Fe=	**mg/L**
ORP=	**mV**
DO=	**mg/L**

COMMENTS:
Turbid

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
1:40	2.3	24.6	7.14	690
1:45	4.5	24.8	7.07	643
1:50	6.8	24.8	7.09	628

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-1B	3/14/2005	1:55	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, *TPHd/mo,* HVOCs	8015, 8020, 8010

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-1C
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	34.55	**Fe=**	**mg/L**
Depth to Water:	6.91	**ORP=**	**mV**
Water Column Height:	27.64	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	4.42	**COMMENTS:** Turbid	
3 Casing Volumes (gal):	13.27		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
2:05	4.4	24.1	7.04	610
2:10	8.8	24.4	7.02	629
2:15	13.3	24.6	7.03	641

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-1C	3/14/2005	2:20	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, TPHd/mo, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-2A
Well Diameter:	4"
Purging Device:	4" Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	11.15	**Fe=**	**mg/L**
Depth to Water:	1.70	**ORP=**	**mV**
Water Column Height:	9.45	**DO=**	**mg/L**
Volume/ft:	0.65		
1 Casing Volume (gal):	6.14	**COMMENTS:**	
3 Casing Volumes (gal):	18.43	Turbid	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
10:05	6.1	24.2	7.19	825
10:10	12.3	24.5	7.14	819
10:10	18.4	24.6	7.11	814

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-2A	3/15/2005	10:15	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, *TPHd/mo*, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-3A
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	13.98
Depth to Water:	3.60
Water Column Height:	10.38
Volume/ft:	0.16
1 Casing Volume (gal):	1.66
3 Casing Volumes (gal):	4.98

Fe=	**mg/L**
ORP=	**mV**
DO=	**mg/L**

COMMENTS:
Black, Turbid, Odor, No SPH

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
9:35	1.7	23.5	7.12	518
9:40	3.3	23.6	7.10	526
9:45	5.0	23.8	7.08	533

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-3A	3/15/2005	9:50	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, TPHd/mo, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-4A
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	12.61	**Fe=**	**mg/L**
Depth to Water:	2.05	**ORP=**	**mV**
Water Column Height:	10.56	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	1.69	**COMMENTS:**	
3 Casing Volumes (gal):	5.07	Very Turid	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
8:20	1.7	23.6	6.92	692
8:25	3.4	23.3	6.94	640
8:30	5.1	23.5	6.97	629

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-4A	3/15/2005	8:35	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, *TPHd/mo*, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-4B
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	20.80	**Fe=**	**mg/L**
Depth to Water:	3.76	**ORP=**	**mV**
Water Column Height:	17.04	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	2.73	**COMMENTS:** Turbid	
3 Casing Volumes (gal):	8.18		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
8:45	2.7	23.9	6.95	520
8:50	5.5	23.8	6.99	527
8:55	8.2	23.7	7.01	540

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-4B	3/15/2005	9:00	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, *TPHd/mo*, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-4C
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	32.00	**Fe=**	**mg/L**
Depth to Water:	5.35	**ORP=**	**mV**
Water Column Height:	26.65	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	4.26		
3 Casing Volumes (gal):	12.79		

COMMENTS:
Turbid

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
9:10	4.3	24.6	6.98	610
9:15	8.5	24.4	7.01	635
9:20	12.8	24.4	7.00	629

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-4C	3/15/2005	9:25	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, TPHd/mo, HVOCs	8015, 8020, 8010

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-5B
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	23.00	**Fe=**	**mg/L**
Depth to Water:	6.27	**ORP=**	**mV**
Water Column Height:	16.73	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	2.68		
3 Casing Volumes (gal):	8.03		

COMMENTS:
Turbid

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
7:55	2.7	24.0	7.08	621
8:00	5.4	23.9	7.13	695
8:05	8.0	23.9	7.15	720

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-5B	3/15/2005	8:10	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, *TPHd/mo*, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-6A
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	14.43	**Fe=**	**mg/L**
Depth to Water:	2.95	**ORP=**	**mV**
Water Column Height:	11.48	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	1.84	**COMMENTS:**	
3 Casing Volumes (gal):	5.51	Turbid	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
11:45	1.8	24.7	6.92	440
11:50	3.7	24.9	6.98	470
11:55	5.5	24.9	7.01	495

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-6A	3/14/2005	12:00	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, *TPHd/mo*, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-6B
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	21.95	**Fe=**	**mg/L**
Depth to Water:	5.80	**ORP=**	**mV**
Water Column Height:	16.15	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	2.58		
3 Casing Volumes (gal):	7.75		

COMMENTS:
Turbid

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
12:10	2.6	24.9	6.90	528
12:15	5.2	24.9	6.95	470
12:20	7.8	24.9	6.93	488

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-6B	3/14/2005	12:25	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, TPHd/mo, HVOCs	8015, 8020, 8010
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-6C
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	33.85	**Fe=**	**mg/L**
Depth to Water:	5.80	**ORP=**	**mV**
Water Column Height:	28.05	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	4.49		
3 Casing Volumes (gal):	13.46		

COMMENTS:
Turbid

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
12:40	4.5	24.9	6.99	430
12:45	9.0	24.6	7.03	423
12:50	13.5	24.7	7.02	449

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-6C	3/14/2005	12:55	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, *TPHd/mo*, HVOCs	8015, 8020, 8010

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/14/2005
Client:	Cambria Environmental Technology
Site Address:	1137-1167 65th Street Oakland, CA
Well ID:	MW-7A
Well Diameter:	1"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	10.02
Depth to Water:	3.35
Water Column Height:	6.67
Volume/ft:	0.04
1 Casing Volume (gal):	0.27
3 Casing Volumes (gal):	0.80

Fe=	**mg/L**
ORP=	**mV**
DO=	**mg/L**

COMMENTS:
Turbid

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
11:10	0.3	23.9	7.12	527
11:20	0.5	24.1	7.10	533
11:30	0.8	24.1	7.09	541

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-7A	3/14/2005	11:35	Amber, Voa	HCl	TPHg/ss, BTEX, MTBE, TPHd/mo, HVOCs	8015, 8020, 8010

Signature:

APPENDIX B

Laboratory Analytical Report

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
5900 Hollis St, Suite A		Date Received: 03/16/05
Emeryville, CA 94608	Client Contact: Neal Siler	Date Reported: 03/22/05
	Client P.O.:	Date Completed: 03/22/05

WorkOrder: 0503275

March 22, 2005

Dear Neal:

Enclosed are:

1). the results of **13** analyzed samples from your **#522-1000; Nady project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
		Date Received: 03/16/05
5900 Hollis St, Suite A	Client Contact: Neal Siler	Date Extracted: 03/18/05-03/19/05
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 03/18/05-03/19/05

Gasoline Range (C6-C12), Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE*

Extraction Method: SW5030B | Analytical Method: SW8021B/8015Cm | Work Order: 0503275

Lab ID	0503275-001B	0503275-002B	0503275-003B	0503275-004B	Reporting Limit for DF =1	
Client ID	MW-1A	MW-1B	MW-1C	MW-2A		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	4800	ND	ND	360	NA	50
TPH(ss)	6000	ND	ND	260	NA	50
MTBE	ND	ND	ND	ND	NA	5.0
Benzene	0.68	0.60	ND	ND	NA	0.5
Toluene	ND	ND	ND	2.5	NA	0.5
Ethylbenzene	2.0	ND	ND	ND	NA	0.5
Xylenes	6.8	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS:	96	109	116	108		
Comments	g,m	i	i	m,i		

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
5900 Hollis St, Suite A		Date Received: 03/16/05
Emeryville, CA 94608	Client Contact: Neal Siler	Date Extracted: 03/18/05-03/19/05
	Client P.O.:	Date Analyzed: 03/18/05-03/19/05

Gasoline Range (C6-C12), Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE*

Extraction Method: SW5030B | Analytical Method: SW8021B/8015Cm | Work Order: 0503275

Lab ID	0503275-005B	0503275-006B	0503275-007B	0503275-008B	Reporting Limit for DF =1	
Client ID	MW-3A	MW-4A	MW-4B	MW-4C		
Matrix	W	W	W	W		
DF	3.3	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	2400	ND	ND	ND	NA	50
TPH(ss)	3500	ND	ND	ND	NA	50
MTBE	ND<17	ND	ND	ND	NA	5.0
Benzene	ND<1.7	0.91	ND	ND	NA	0.5
Toluene	ND<1.7	1.7	ND	ND	NA	0.5
Ethylbenzene	ND<1.7	ND	ND	ND	NA	0.5
Xylenes	ND<1.7	1.9	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS:	84	109	110	111		
Comments	g,h,i	i	i	i		

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
		Date Received: 03/16/05
5900 Hollis St, Suite A	Client Contact: Neal Siler	Date Extracted: 03/18/05-03/19/05
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 03/18/05-03/19/05

Gasoline Range (C6-C12), Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Cm Work Order: 0503275

Lab ID	0503275-009B	0503275-010B	0503275-011B	0503275-012B	Reporting Limit for DF =1	
Client ID	MW-5B	MW-6A	MW-6B	MW-6C		
Matrix	W	W	W	W		
DF	1	10	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	ND	2900	1300	ND	NA	50
TPH(ss)	ND	2600	1200	ND	NA	50
MTBE	ND	ND<50	ND	ND	NA	5.0
Benzene	ND	ND<5.0	ND	ND	NA	0.5
Toluene	ND	ND<5.0	ND	ND	NA	0.5
Ethylbenzene	ND	ND<5.0	ND	ND	NA	0.5
Xylenes	ND	ND<5.0	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS:	100	100	93	109		
Comments	i	g,i	g,i			

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
5900 Hollis St, Suite A		Date Received: 03/16/05
Emeryville, CA 94608	Client Contact: Neal Siler	Date Extracted: 03/18/05-03/19/05
	Client P.O.:	Date Analyzed: 03/18/05-03/19/05

Gasoline Range (C6-C12), Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE*

Extraction Method: SW5030B | Analytical Method: SW8021B/8015Cm | Work Order: 0503275

					Reporting Limit for DF =1	
Lab ID	0503275-013B					
Client ID	MW-7A					
Matrix	W					
DF	10				S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	3900				NA	50
TPH(ss)	3700				NA	50
MTBE	ND<50				NA	5.0
Benzene	ND<5.0				NA	0.5
Toluene	ND<5.0				NA	0.5
Ethylbenzene	ND<5.0				NA	0.5
Xylenes	ND<5.0				NA	0.5
Surrogate Recoveries (%)						
%SS:	103					
Comments	g,h					

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
		Date Received: 03/16/05
5900 Hollis St, Suite A	Client Contact: Neal Siler	Date Extracted: 03/16/05
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 03/17/05-03/19/05

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0503275

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0503275-001A	MW-1A	W	3200,d,b	ND	1	119
0503275-002A	MW-1B	W	52,b,i	ND	1	101
0503275-003A	MW-1C	W	ND,i	ND	1	96
0503275-004A	MW-2A	W	560,d,b,g,i	450	1	106
0503275-005A	MW-3A	W	37,000,d,b,i	ND<2500	10	97
0503275-006A	MW-4A	W	210,g,b,f,i	300	1	103
0503275-007A	MW-4B	W	ND,i	ND	1	92
0503275-008A	MW-4C	W	ND,i	ND	1	89
0503275-009A	MW-5B	W	ND,i	ND	1	95
0503275-010A	MW-6A	W	5900,d,b,i	ND	1	87
0503275-011A	MW-6B	W	5200,b,d,i	340	1	93
0503275-012A	MW-6C	W	60,b	ND	1	98
0503275-013A	MW-7A	W	14,000,n,b,h	620	1	112

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: 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; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
5900 Hollis St, Suite A		Date Received: 03/16/05
Emeryville, CA 94608	Client Contact: Neal Siler	Date Extracted: 03/19/05-03/21/05
	Client P.O.:	Date Analyzed: 03/19/05-03/21/05

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0503275

Lab ID	0503275-001C	0503275-002C	0503275-003C	0503275-004C	Reporting Limit for DF =1	
Client ID	MW-1A	MW-1B	MW-1C	MW-2A		
Matrix	W	W	W	W		
DF	2	1	1	1	S	W
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND<1.0	ND	ND	ND	NA	0.5
Bromoform	ND<1.0	ND	ND	ND	NA	0.5
Bromomethane	ND<1.0	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND<1.0	ND	ND	ND	NA	0.5
Chlorobenzene	ND<1.0	ND	ND	ND	NA	0.5
Chloroethane	ND<1.0	1.1	ND	ND	NA	0.5
2-Chloroethyl Vinyl Ether	ND<2.0	ND	ND	ND	NA	1.0
Chloroform	ND<1.0	1.9	ND	ND	NA	0.5
Chloromethane	ND<1.0	ND	ND	ND	NA	0.5
Dibromochloromethane	ND<1.0	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	2.0	ND	ND	ND	NA	0.5
1,3-Dichlorobenzene	ND<1.0	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	ND<1.0	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND<1.0	ND	ND	ND	NA	0.5
1,1-Dichloroethane	2.4	5.2	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.0	12	ND	ND	NA	0.5
1,1-Dichloroethene	ND<1.0	ND	ND	ND	NA	0.5
cis-1,2-Dichloroethene	32	3.8	ND	ND	NA	0.5
trans-1,2-Dichloroethene	2.2	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND<1.0	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND<1.0	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND<1.0	ND	ND	ND	NA	0.5
Methylene chloride	ND<1.0	ND	ND	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND<1.0	ND	ND	ND	NA	0.5
Tetrachloroethene	42	ND	ND	ND	NA	0.5
1,1,1-Trichloroethane	ND<1.0	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND<1.0	ND	ND	ND	NA	0.5
Trichloroethene	12	ND	ND	ND	NA	0.5
Trichlorofluoromethane	ND<1.0	ND	ND	ND	NA	0.5
Vinyl Chloride	8.0	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	106	109	100	98		
%SS2:	104	111	110	107		
%SS3:	106	99	99	101		
Comments		i	i	i		

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

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

surrogate diluted out of range or 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
		Date Received: 03/16/05
5900 Hollis St, Suite A	Client Contact: Neal Siler	Date Extracted: 03/19/05-03/21/05
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 03/19/05-03/21/05

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0503275

Lab ID	0503275-005C	0503275-006C	0503275-007C	0503275-008C	Reporting Limit for DF =1	
Client ID	MW-3A	MW-4A	MW-4B	MW-4C		
Matrix	W	W	W	W		
DF	2	1	1	1	S	W
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND<1.0	ND	ND	ND	NA	0.5
Bromoform	ND<1.0	ND	ND	ND	NA	0.5
Bromomethane	ND<1.0	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND<1.0	ND	ND	ND	NA	0.5
Chlorobenzene	ND<1.0	ND	ND	ND	NA	0.5
Chloroethane	ND<1.0	ND	ND	ND	NA	0.5
2-Chloroethyl Vinyl Ether	ND<2.0	ND	ND	ND	NA	1.0
Chloroform	ND<1.0	ND	ND	ND	NA	0.5
Chloromethane	ND<1.0	ND	ND	ND	NA	0.5
Dibromochloromethane	ND<1.0	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	43	ND	ND	ND	NA	0.5
1,3-Dichlorobenzene	1.2	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	5.7	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND<1.0	ND	ND	ND	NA	0.5
1,1-Dichloroethane	ND<1.0	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.0	ND	ND	ND	NA	0.5
1,1-Dichloroethene	ND<1.0	ND	ND	ND	NA	0.5
cis-1,2-Dichloroethene	ND<1.0	ND	ND	ND	NA	0.5
trans-1,2-Dichloroethene	ND<1.0	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND<1.0	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND<1.0	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND<1.0	ND	ND	ND	NA	0.5
Methylene chloride	ND<1.0	ND	ND	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND<1.0	ND	ND	ND	NA	0.5
Tetrachloroethene	ND<1.0	1.1	ND	ND	NA	0.5
1,1,1-Trichloroethane	ND<1.0	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND<1.0	ND	ND	ND	NA	0.5
Trichloroethene	ND<1.0	ND	ND	ND	NA	0.5
Trichlorofluoromethane	ND<1.0	ND	ND	ND	NA	0.5
Vinyl Chloride	ND<1.0	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	96	102	106	105		
%SS2:	107	113	111	110		
%SS3:	111	97	98	99		
Comments	j,i	i	i	i		

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

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

surrogate diluted out of range or 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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McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
		Date Received: 03/16/05
5900 Hollis St, Suite A	Client Contact: Neal Siler	Date Extracted: 03/19/05-03/21/05
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 03/19/05-03/21/05

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0503275

Lab ID	0503275-009C	0503275-010C	0503275-011C	0503275-012C	Reporting Limit for DF =1	
Client ID	MW-5B	MW-6A	MW-6B	MW-6C		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND	ND	ND	ND	NA	0.5
Bromoform	ND	ND	ND	ND	NA	0.5
Bromomethane	ND	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND	ND	ND	ND	NA	0.5
Chlorobenzene	ND	ND	ND	ND	NA	0.5
Chloroethane	ND	0.61	ND	ND	NA	0.5
2-Chloroethyl Vinyl Ether	ND	ND	ND	ND	NA	1.0
Chloroform	ND	ND	ND	ND	NA	0.5
Chloromethane	ND	ND	ND	ND	NA	0.5
Dibromochloromethane	ND	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	ND	ND	1.1	ND	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethane	ND	ND	ND	1.1	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethene	ND	ND	ND	ND	NA	0.5
cis-1,2-Dichloroethene	ND	ND	ND	12	NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
Methylene chloride	ND	ND	ND	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NA	0.5
Tetrachloroethene	ND	ND	ND	1.8	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND	ND	ND	ND	NA	0.5
Trichloroethene	ND	ND	ND	1.9	NA	0.5
Trichlorofluoromethane	ND	ND	ND	ND	NA	0.5
Vinyl Chloride	ND	ND	3.5	2.3	NA	0.5
Surrogate Recoveries (%)						
%SS1:	108	96	97	104		
%SS2:	109	101	108	112		
%SS3:	99	105	111	100		
Comments	i	i	i			

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

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

surrogate diluted out of range or 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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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #522-1000; Nady	Date Sampled: 03/14/05
5900 Hollis St, Suite A		Date Received: 03/16/05
Emeryville, CA 94608	Client Contact: Neal Siler	Date Extracted: 03/19/05-03/21/05
	Client P.O.:	Date Analyzed: 03/19/05-03/21/05

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

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0503275

					Reporting Limit for DF =1	
Lab ID	0503275-013C					
Client ID	MW-7A					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND				NA	0.5
Bromoform	ND				NA	0.5
Bromomethane	ND				NA	0.5
Carbon Tetrachloride	ND				NA	0.5
Chlorobenzene	ND				NA	0.5
Chloroethane	ND				NA	0.5
2-Chloroethyl Vinyl Ether	ND				NA	1.0
Chloroform	ND				NA	0.5
Chloromethane	ND				NA	0.5
Dibromochloromethane	ND				NA	0.5
1,2-Dichlorobenzene	2.6				NA	0.5
1,3-Dichlorobenzene	ND				NA	0.5
1,4-Dichlorobenzene	ND				NA	0.5
Dichlorodifluoromethane	ND				NA	0.5
1,1-Dichloroethane	ND				NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND				NA	0.5
1,1-Dichloroethene	ND				NA	0.5
cis-1,2-Dichloroethene	ND				NA	0.5
trans-1,2-Dichloroethene	ND				NA	0.5
1,2-Dichloropropane	ND				NA	0.5
cis-1,3-Dichloropropene	ND				NA	0.5
trans-1,3-Dichloropropene	ND				NA	0.5
Methylene chloride	ND				NA	0.5
1,1,2,2-Tetrachloroethane	ND				NA	0.5
Tetrachloroethene	ND				NA	0.5
1,1,1-Trichloroethane	ND				NA	0.5
1,1,2-Trichloroethane	ND				NA	0.5
Trichloroethene	ND				NA	0.5
Trichlorofluoromethane	ND				NA	0.5
Vinyl Chloride	ND				NA	0.5
Surrogate Recoveries (%)						
%SS1:	99					
%SS2:	108					
%SS3:	118					
Comments	h					

* 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 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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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 SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0503275

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 15385** **Spiked Sample ID: 0503274-003A**

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	LCS / LCSD
TPH(btex) £	ND	60	96.8	95.3	1.52	98.6	98.7	0.0836	70 - 130	70 - 130
MTBE	ND	10	102	99	3.30	93.1	96.4	3.47	70 - 130	70 - 130
Benzene	ND	10	103	99.6	3.64	108	109	1.01	70 - 130	70 - 130
Toluene	ND	10	106	102	4.54	103	103	0	70 - 130	70 - 130
Ethylbenzene	ND	10	103	98.5	4.22	107	106	1.04	70 - 130	70 - 130
Xylenes	ND	30	90	86	4.55	95	91.3	3.94	70 - 130	70 - 130
%SS:	109	10	113	111	1.53	110	112	1.05	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

BATCH 15385 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0503275-001B	3/14/05 1:30 PM	3/18/05 4:40 AM	3/18/05 4:40 AM	0503275-002B	3/14/05 1:55 PM	3/18/05 9:06 AM	3/18/05 9:06 AM
0503275-003B	3/14/05 2:20 PM	3/18/05 9:36 AM	3/18/05 9:36 AM	0503275-004B	3/14/05 10:15 AM	3/18/05 10:06 AM	3/18/05 10:06 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 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.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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 SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0503275

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 15402** **Spiked Sample ID: 0503276-006A**

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	LCS / LCSD
TPH(btex)£	ND	60	98.7	93.6	5.34	95.8	89	7.41	70 - 130	70 - 130
MTBE	ND	10	109	103	5.84	87.2	94.3	7.76	70 - 130	70 - 130
Benzene	ND	10	112	107	4.36	94.9	97.6	2.79	70 - 130	70 - 130
Toluene	ND	10	111	106	4.31	97.8	97	0.765	70 - 130	70 - 130
Ethylbenzene	ND	10	108	103	5.26	95.9	100	4.30	70 - 130	70 - 130
Xylenes	ND	30	95.3	90	5.76	96	100	4.08	70 - 130	70 - 130
%SS:	106	10	112	115	2.33	101	98	3.04	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

BATCH 15402 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0503275-005B	3/14/05 9:50 AM	3/19/05 9:08 AM	3/19/05 9:08 AM	0503275-006B	3/14/05 8:35 AM	3/19/05 8:09 AM	3/19/05 8:09 AM
0503275-007B	3/14/05 9:00 AM	3/18/05 10:36 AM	3/18/05 10:36 AM	0503275-008B	3/14/05 9:25 AM	3/18/05 11:06 AM	3/18/05 11:06 AM
0503275-009B	3/14/05 8:10 AM	3/18/05 10:02 AM	3/18/05 10:02 AM	0503275-010B	3/14/05 12:00 PM	3/18/05 7:51 AM	3/18/05 7:51 AM
0503275-011B	3/14/05 12:25 PM	3/18/05 10:34 AM	3/18/05 10:34 AM	0503275-012B	3/14/05 12:55 PM	3/18/05 11:07 AM	3/18/05 11:07 AM
0503275-013B	3/14/05 11:35 AM	3/18/05 9:29 AM	3/18/05 9:29 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 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.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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: Water QC Matrix: Water WorkOrder: 0503275

EPA Method: SW8015C **Extraction: SW3510C** **BatchID: 15393** **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	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	104	103	1.04	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	97	97	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

BATCH 15393 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0503275-001A	3/14/05 1:30 PM	3/16/05 8:00 PM	3/17/05 3:37 PM	0503275-002A	3/14/05 1:55 PM	3/16/05 8:00 PM	3/18/05 5:06 PM
0503275-003A	3/14/05 2:20 PM	3/16/05 8:00 PM	3/17/05 10:37 PM	0503275-004A	3/14/05 10:15 AM	3/16/05 8:00 PM	3/18/05 3:41 PM
0503275-005A	3/14/05 9:50 AM	3/16/05 8:00 PM	3/18/05 9:44 PM	0503275-006A	3/14/05 8:35 AM	3/16/05 8:00 PM	3/19/05 12:59 AM
0503275-007A	3/14/05 9:00 AM	3/16/05 8:00 PM	3/17/05 7:10 PM	0503275-008A	3/14/05 9:25 AM	3/16/05 8:00 PM	3/17/05 3:39 PM
0503275-009A	3/14/05 8:10 AM	3/16/05 8:00 PM	3/17/05 8:19 PM	0503275-010A	3/14/05 12:00 PM	3/16/05 8:00 PM	3/17/05 1:14 PM
0503275-011A	3/14/05 12:25 PM	3/16/05 8:00 PM	3/17/05 4:35 PM	0503275-012A	3/14/05 12:55 PM	3/16/05 8:00 PM	3/18/05 7:46 AM
0503275-013A	3/14/05 11:35 AM	3/16/05 8:00 PM	3/17/05 3:37 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 Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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: 0503275

EPA Method: SW8260B	Extraction: SW5030B			BatchID: 15391		Spiked Sample ID: 0503275-009C				
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	LCS / LCSD
Chlorobenzene	ND	10	117	118	1.49	117	115	1.86	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	90.2	90.3	0.163	95.2	92.7	2.75	70 - 130	70 - 130
1,1-Dichloroethene	ND	10	89.4	88.8	0.587	92.9	85.1	8.77	70 - 130	70 - 130
Trichloroethene	ND	10	93.6	93.1	0.528	94	90	4.41	70 - 130	70 - 130
%SS1:	108	10	98	98	0	98	97	0.297	70 - 130	70 - 130
%SS2:	109	10	99	99	0	97	98	0.591	70 - 130	70 - 130
%SS3:	99	10	107	105	1.42	107	108	0.830	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

BATCH 15391 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0503275-001C	3/14/05 1:30 PM	3/19/05 1:36 AM	3/19/05 1:36 AM	0503275-002C	3/14/05 1:55 PM	3/19/05 2:19 AM	3/19/05 2:19 AM
0503275-003C	3/14/05 2:20 PM	3/19/05 3:02 AM	3/19/05 3:02 AM	0503275-004C	3/14/05 10:15 AM	3/19/05 3:45 AM	3/19/05 3:45 AM
0503275-005C	3/14/05 9:50 AM	3/19/05 4:28 AM	3/19/05 4:28 AM	0503275-006C	3/14/05 8:35 AM	3/19/05 5:11 AM	3/19/05 5:11 AM
0503275-007C	3/14/05 9:00 AM	3/19/05 5:54 AM	3/19/05 5:54 AM	0503275-008C	3/14/05 9:25 AM	3/19/05 6:38 AM	3/19/05 6:38 AM
0503275-009C	3/14/05 8:10 AM	3/19/05 7:21 AM	3/19/05 7:21 AM	0503275-010C	3/14/05 12:00 PM	3/21/05 6:06 PM	3/21/05 6:06 PM
0503275-011C	3/14/05 12:25 PM	3/19/05 8:48 AM	3/19/05 8:48 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 freon 113 may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

LR QA/QC Officer

McCampbell Analytical, Inc.

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: 0503275

EPA Method: SW8260B **Extraction: SW5030B** **BatchID: 15403** **Spiked Sample ID: 0503276-006C**

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	LCS / LCSD
Chlorobenzene	ND	10	107	109	2.21	106	105	1.34	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	104	93.6	10.4	107	91.1	16.3	70 - 130	70 - 130
1,1-Dichloroethene	ND	10	81	83.6	3.25	80.1	84.5	5.35	70 - 130	70 - 130
Trichloroethene	ND	10	94	98	4.15	94.4	95.9	1.61	70 - 130	70 - 130
%SS1:	98	10	102	95	7.27	104	97	7.02	70 - 130	70 - 130
%SS2:	101	10	94	100	6.06	93	98	5.24	70 - 130	70 - 130
%SS3:	101	10	102	105	3.34	101	106	5.23	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

BATCH 15403 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0503275-012C	3/14/05 12:55 PM	3/19/05 9:31 AM	3/19/05 9:31 AM	0503275-013C	3/14/05 11:35 AM	3/19/05 10:14 AM	3/19/05 10:14 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 / 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 freon 113 may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

LR QA/QC Officer

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0503275 **ClientID: CETE**

Report to:
Neal Siler
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #522-1000; Nady
PO:

Bill to:
Accounts Payable
Cambria Env. Technology
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days
Date Received: 03/16/2005
Date Printed: 03/16/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0503275-001	MW-1A	Water	3/14/05 1:30:00 PM	☐	C	B	A												
0503275-002	MW-1B	Water	3/14/05 1:55:00 PM	☐	C	B	A												
0503275-003	MW-1C	Water	3/14/05 2:20:00 PM	☐	C	B	A												
0503275-004	MW-2A	Water	3/14/05 10:15:00	☐	C	B	A												
0503275-005	MW-3A	Water	3/14/05 9:50:00 AM	☐	C	B	A												
0503275-006	MW-4A	Water	3/14/05 8:35:00 AM	☐	C	B	A												
0503275-007	MW-4B	Water	3/14/05 9:00:00 AM	☐	C	B	A												
0503275-008	MW-4C	Water	3/14/05 9:25:00 AM	☐	C	B	A												
0503275-009	MW-5B	Water	3/14/05 8:10:00 AM	☐	C	B	A												
0503275-010	MW-6A	Water	3/14/05 12:00:00	☐	C	B	A												
0503275-011	MW-6B	Water	3/14/05 12:25:00	☐	C	B	A												
0503275-012	MW-6C	Water	3/14/05 12:55:00	☐	C	B	A												
0503275-013	MW-7A	Water	3/14/05 11:35:00	☐	C	B	A												

Test Legend:

1	8010BMS_W	2	G-MBTEX_W	3	TPH(DMO)_W	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Rosa Venegas

Comments:

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

Clerk: 030324-10

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

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

EDF Required? (Yes) No

Report To: Neal Siler Bill To: Cambria Env. Tech

Company: Cambria Environmental Tech
5900 Hollis St.
Emeryville, Ca

E-Mail: nsiler@cambria-env.com

Tele: 510-420-3307 Fax: 510-420-9170

Project #: 522-1000 Project Name: Navy

Project Location: 1137-1167 65th St. Oakland, CA

Sampler Signature: J. Hill Muskan Environmental Sampling

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other
MW-1A		3-14-05	1:30	2 4	Amb VOA	X					X	X		
MW-1B		3-14-05	1:55											
MW-1C		3-14-05	2:20											
MW-2A		3-15-05	10:15											
MW-3A		3-15-05	9:50											
MW-4A		3-15-05	8:35											
MW-4B		3-15-05	9:00											
MW-4C		3-15-05	9:25											
MW-5B		3-15-05	8:10											
MW-6A		3-14-05	12:00											
MW-6B		3-14-05	12:25											
MW-6C		3-14-05	12:55	X	X									
MW-7A		3-14-05	11:35	4 1	VOA Amb									
TB				2	VOA	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)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	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)	Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2 – DCA, 1,2 – EDB, ethanol) by 8260B	TPHg by 8015 M	VOCs and fuel additives by 8260	TPHg / BTEX & MTBE by (8015 / 8020)	Other: TPHg/ss, BTEX, MTBE 8015/8020	Other: HVOCs 8010	Comment
		X												X	X		Filter Samples for Metals analysis: Yes / No
		X												X	X		
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Hold

Relinquished By: Date: 3/16 Time: 1515 Received By:

Relinquished By: Date: Time: Received By:

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

PRESERVATION	VOAS	O&G	METALS	OTHER