RO 266

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1626 Vallejo Street
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March 1, 2004

Mr. Don Hwang
Hazardous Materials Specialist
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335
tpeacock@co.alameda.ca.us

SUBJECT: IVQ03 Monitoring/SVE System Progress Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Hwang:

Attached is the IVQ03 Groundwater Monitoring/SVE Systems Progress Report for the above site. If you have a question, please contact me.

Sincerely yours,

Mark Borsuk

CAMBRIA

February 25, 2004

Mr. Mark Borsuk
1626 Vallejo St.
San Francisco, CA 94123-5116

Re: **Groundwater Monitoring and System Progress Report**
Fourth Quarter 2003
Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

Dear Mr. Borsuk:

As you requested, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Groundwater Monitoring and System Progress Report – Fourth Quarter 2003*. Presented in the report are the fourth quarter 2003 activities and results, and the anticipated first quarter 2004 activities. Attached are two additional copies for submittal to the Alameda County Health Care Service Agency (ACHCSA) and for your file.

If you have any questions or comments regarding this report, please call me at (510) 420-3327.

Sincerely,
Cambria Environmental Technology, Inc.

Ron Scheele, R.G.
Senior Geologist

Attachments: Groundwater Monitoring and System Progress Report - Fourth Quarter 2003
(2 copies)

Cambria Environmental Technology, Inc.

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

CAMBRIA

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

FOURTH QUARTER 2003

Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

February 25, 2004

Prepared for:

Mr. Mark Borsuk
1626 Vallejo St.
San Francisco, CA 94123-5116

Prepared by:

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

Gretchen M. Hellmann
Project Engineer

REGISTERED GEOLOGIST • RONALD A. SCHEELE • No. 6842 • STATE OF CALIFORNIA

Ron Scheele, R.G.
Senior Geologist

CAMBRIA

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

FOURTH QUARTER 2003

Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

February 25, 2004

INTRODUCTION

On behalf of Mr. Mark Borsuk, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring and System Progress Report – Fourth Quarter 2003* for the above-referenced site (see Figure 1). Presented in this report are the fourth quarter 2003 groundwater monitoring and remediation activities, and the anticipated first quarter 2004 activities.

FOURTH QUARTER 2003 ACTIVITIES AND RESULTS

Monitoring Activities

Field Activities: On December 22, 2003, Cambria conducted quarterly monitoring activities. Cambria gauged and inspected for separate-phase hydrocarbons (SPH) in all monitoring wells. Groundwater samples were collected from wells MW-2, MW-4, and MW-5. Well MW-1 contained SPH and therefore, was not sampled. Wells MW-3 and MW-6 are sampled on an annual basis, typically during the first quarter sampling event. Groundwater monitoring field data sheets are presented as Appendix A. The groundwater monitoring data has been submitted to the Geotracker database. See Appendix D for the Geotracker electronic delivery confirmation.

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE by EPA Method 8021B by McCampbell Analytical, Inc. of Pacheco, California. The laboratory analytical report is included as Appendix B. Hydrocarbon concentrations are shown on Figure 1 and Table 1. The analytical data was submitted to the Geotracker database. See Appendix D for the Geotracker electronic delivery confirmation.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during Cambria's December 22, 2003 site visit, groundwater beneath the site generally flows toward the northeast at a gradient of 0.018 feet/foot. The overall gradient is consistent with previous quarters, including the slight groundwater mounding near well MW-1 that is likely induced by the remediation activities. Depth to water and groundwater elevation data is presented in Table 1. . Groundwater appears to flow in a radial pattern in the vicinity of well MW-1 due to groundwater

Hydrocarbon Distribution in Groundwater: During the fourth quarter event, SPH were measured at a thickness of 0.01 feet in well MW-1. The SPH thickness in well MW-1 has decreased as compared to the previous two quarters due to the connection of the well to the remediation system (see below).

Hydrocarbon concentrations were detected in only one of the three wells sampled this quarter. TPHg and benzene concentrations were detected in well MW-4 at 26,000 micrograms per liter (µg/L) and 9,500 µg/L, respectively. MTBE was not detected above laboratory detection limits in any of the wells. Hydrocarbon concentrations dramatically decreased to below detection limits in well MW-2 and remained at similar levels in wells MW-4 and MW-5 relative to the previous quarter. The decrease in hydrocarbon concentrations in well MW-2 correlates with a similar drop in hydrocarbon concentrations in December 2002.

Corrective Action Activities

System Design: The soil vapor extraction (SVE) and air sparging (AS) remediation system consists of a trailer mounted, all-electric catalytic oxidizer with heat exchanger, a 10-horsepower positive-displacement blower, an oil-less air sparge blower, and an auto dialer connected to a phone line to provide remote notification of system status. Four coaxial remediation wells (VES-1/AS-1, VES-2/AS-2, VES-3/AS-3, VES-4/AS-4) are individually connected to a central manifold in the remediation system enclosure. See Figure 2 for the location of remediation enclosure and wells.

System Modification: To address the recent accumulation of SPH in well MW-1, Cambria connected well MW-1 to the SVE remediation system. New underground remediation piping was installed and wellhead modifications were made on October 31, 2003. The well casing was raised 0.41 feet to compensate for new wellhead fittings (Table 1). SVE was initiated on well MW-1 on November 11, 2003.

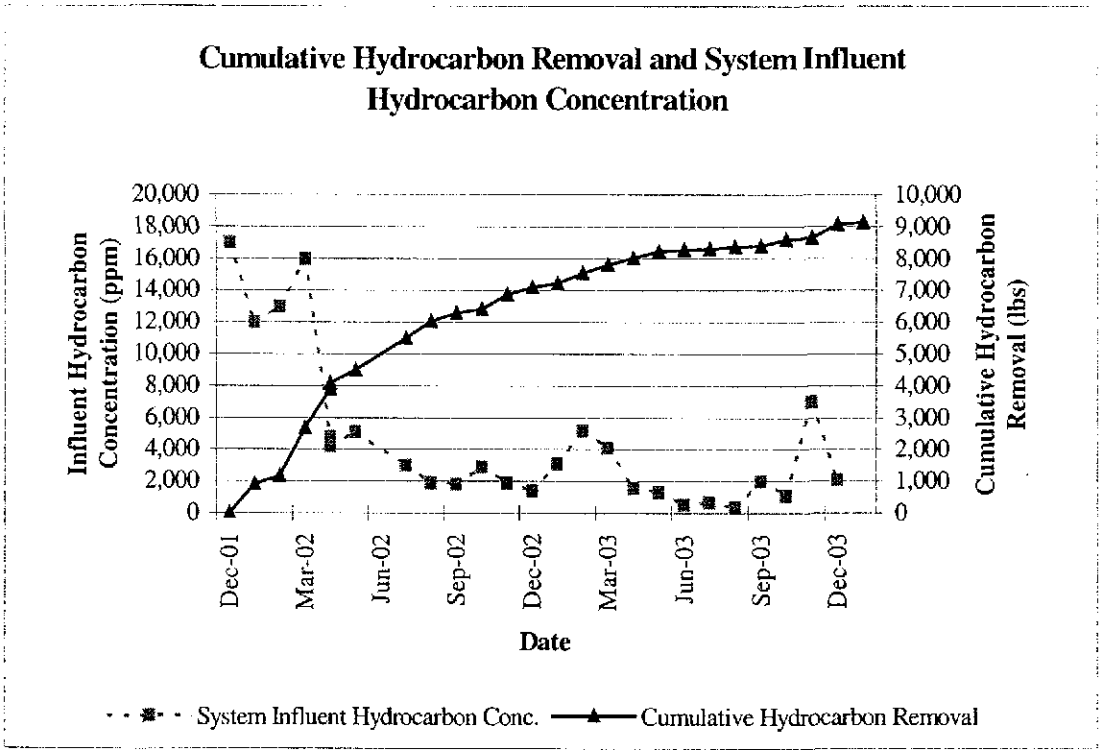
SVE/AS System Operation and Maintenance Activities: During the fourth quarter, Cambria performed system operation and maintenance (O&M) on the SVE/AS system approximately three times per month. Individual well flow, vacuum, and hydrocarbon concentration measurements were collected from all SVE wells and from the catalytic oxidizer/blower (see Tables 2 and 3). The individual well air sparge flow and pressure measurements were also collected. Air sparge flow gauges were cleaned and the system blower oil was checked. During site visits, system operation parameters were also recorded in specialized field forms for future system optimization and agency inspection. As per the Bay Area Air Quality Management District (BAAQMD) permit, a catalytic oxidizer operating temperature greater than 600 degrees Fahrenheit was maintained, and system operation parameters were continuously measured using a chart recorder.

System influent and effluent vapor samples were collected and submitted for laboratory analysis on October 7, November 11, and December 2, 2003. Due to the high influent vapor concentrations associated with the connection of well MW-1 to the SVE system on November 11, manual dilution air was temporarily introduced into the catalytic oxidizer to prevent a high temperature alarm shutdown. Additionally, a vapor sample was taken at the system midpoint and the flow was recorded at this location (Table 2). Vapor sample results indicated that the catalytic oxidizer was achieving proper destruction efficiency and was operating within BAAQMD air permit requirements. Table 2 summarizes SVE system operations and analytical results. The analytical laboratory reports from system vapor sampling are included as Appendix C.

SVE System Performance: The SVE system automatically shutdown three times during the third quarter due to air pressure alarms. The shutdowns were likely caused by a low vapor flow alarm condition and/or a malfunctioning vapor pressure switch. The problems were rectified quickly due to the remote telemetry notification system. System optimization events were performed throughout the quarter to maximize hydrocarbon removal. Wells VES-1/AS-1, VES-3/AS-3, and VES-4/AS-4 were opened and closed due to varying hydrocarbon concentrations. Each optimization event resulted in higher influent hydrocarbon vapor concentrations.

During the quarter the SVE system operated for a total of 2,071 hours, a run-time of approximately 94 percent. Influent vapor concentrations ranged from 1,100 to 7,000 parts per million by volume (ppmv) and vapor flow rates ranged from 3.0 to 9.0 standard cubic feet per minute (see Table 2). Hydrocarbon removal rates ranged from approximately 1.6 to 20.1 pounds per day. The fluctuation in hydrocarbon removal rates is primarily due to the connection of well MW-1 to the SVE system, and to a lessor extent, changes in air sparge flow rates and system optimization activities. As of January

7, 2003, approximately 9,135 pounds of hydrocarbons have been extracted and destroyed by soil vapor extraction activities (see graph below and Table 2).



AS System Performance: AS activities were periodically evaluated and optimized during the quarter. Air sparging was adjusted to increase system extraction flow rates and hydrocarbon concentrations while minimizing the potential for soil fracturing and off-site vapor migration. The AS system was set to cycle each AS well between 15 and 30 minutes, and to operate only between the hours of 7 am to 6 pm to reduce system noise from the air sparge blower during the evening and early morning hours. AS injection flow rates and intervals were adjusted during optimization events. Air pressures ranged from 5 to 10 pounds per square inch (psi) and injection flow rates ranged from 1 to 3 cubic feet per minute (cfm). AS activities were temporarily shut off from November 17, 2003 through the end of the quarter due to high system influent hydrocarbon concentrations associated with the connection of well MW-1 to the SVE system.

ANTICIPATED FIRST QUARTER 2004 ACTIVITIES

Groundwater Sampling: Cambria will gauge all monitoring wells, check wells for SPH, and collect groundwater samples from wells not containing SPH. As per the annual sampling schedule, all wells, including MW-3 and MW-6, will be sampled for the annual sampling event. Groundwater samples will be analyzed for TPHg by Modified EPA Method 8015 and BTEX and MTBE by EPA Method 8021B. If MTBE is detected above laboratory detection limits in any sample, confirmation analysis by EPA Method 8260 will be performed. Groundwater monitoring and sampling results will be submitted to the State's Geotracker Database. Cambria will summarize groundwater monitoring activities and results in the *Groundwater Monitoring and System Progress Report - First Quarter 2004.*

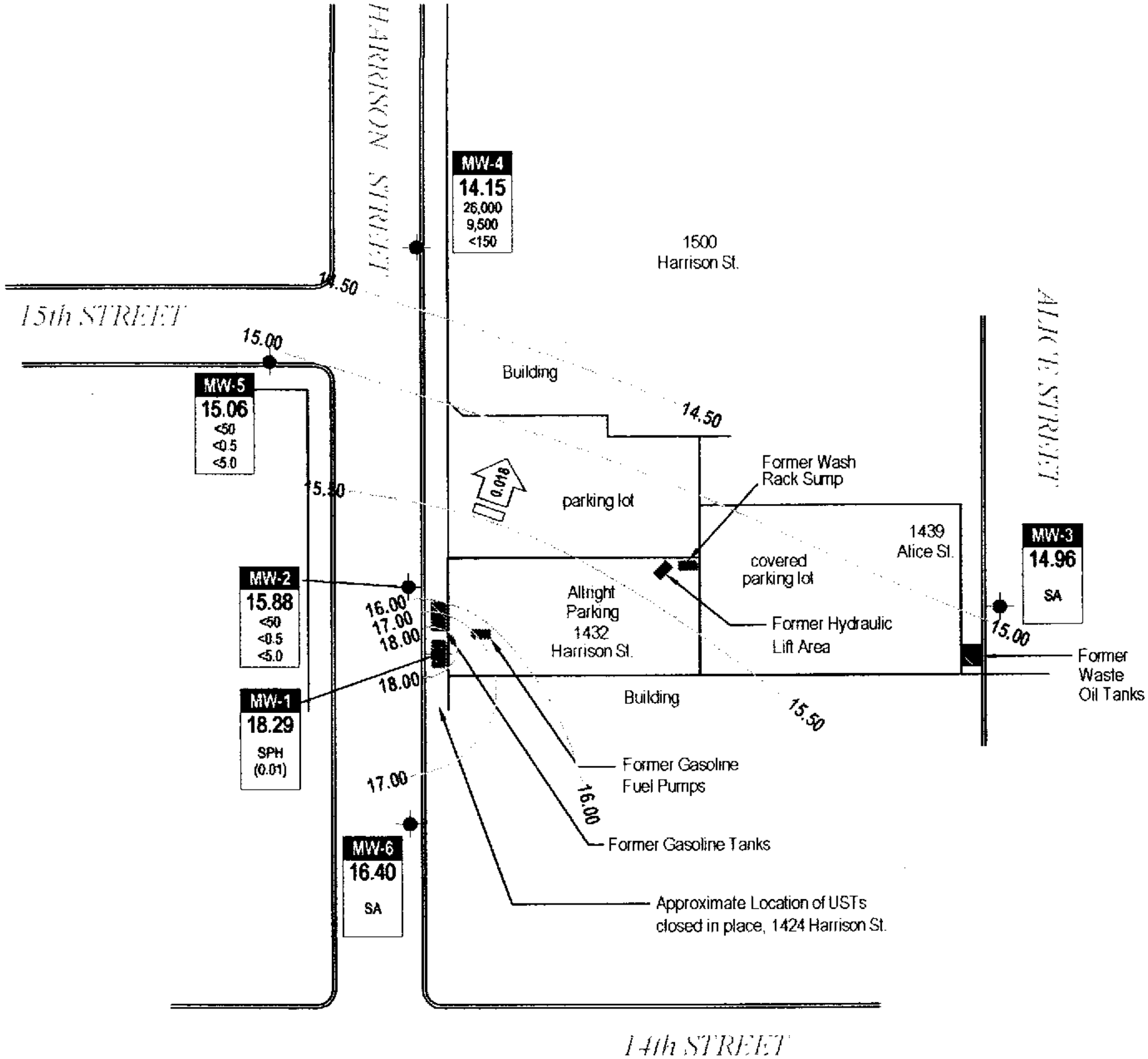
Remediation System: Cambria will continue to perform operation and maintenance visits of the SVE/AS system approximately two to three times per month during the first quarter of 2004. Optimization activities will include system vacuum adjustments to maximize subsurface air flow and extraction flow rates. In-well sparging will also be initiated in well MW-1 to further address the removal of SPH. System influent and effluent vapor samples will be collected on a monthly basis. Cambria will evaluate the performance of the remediation system and include the results with the *Groundwater Monitoring and System Progress Report - First Quarter 2004.*

APPENDICES

Figure 1 - Groundwater Elevation and Hydrocarbon Concentration Map
Figure 2 - Soil Vapor Extraction/Air Sparging System Site Plan

Table 1 - Groundwater Elevations and Analytical Data
Table 2 - SVE System Performance and Soil Vapor Analytical Results
Table 3 - SVE System Parameters

Appendix A - Groundwater Monitoring Field Data Sheets
Appendix B - Analytical Results for Groundwater Sampling
Appendix C - Analytical Results for SVE System Operation
Appendix D – Geotracker Electronic Delivery Confirmations



EXPLANATION

Symbol	Description
(well symbol)	Groundwater monitoring well
14.00	Groundwater elevation contour, in feet above mean sea level (msl)
0.017 (arrow)	Groundwater flow direction and gradient
SPH	Separate-phase hydrocarbons (thickness in feet)
Well ID	Well designation
ELEV	Groundwater elevation, in feet above mean sea level (msl)
TPHg / Benzene / MTBE	Hydrocarbons in groundwater, in micrograms per liter (µg/L)
SA	Sampled Annually

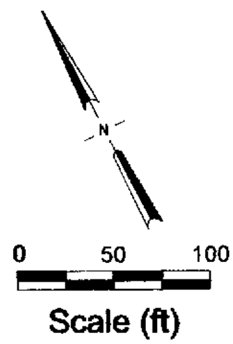


FIGURE
1

Note: Groundwater mounding exists at well MW-1 due to soil vapor extraction on the well.

Allright Parking
1432 Harrison Street
Oakland, California

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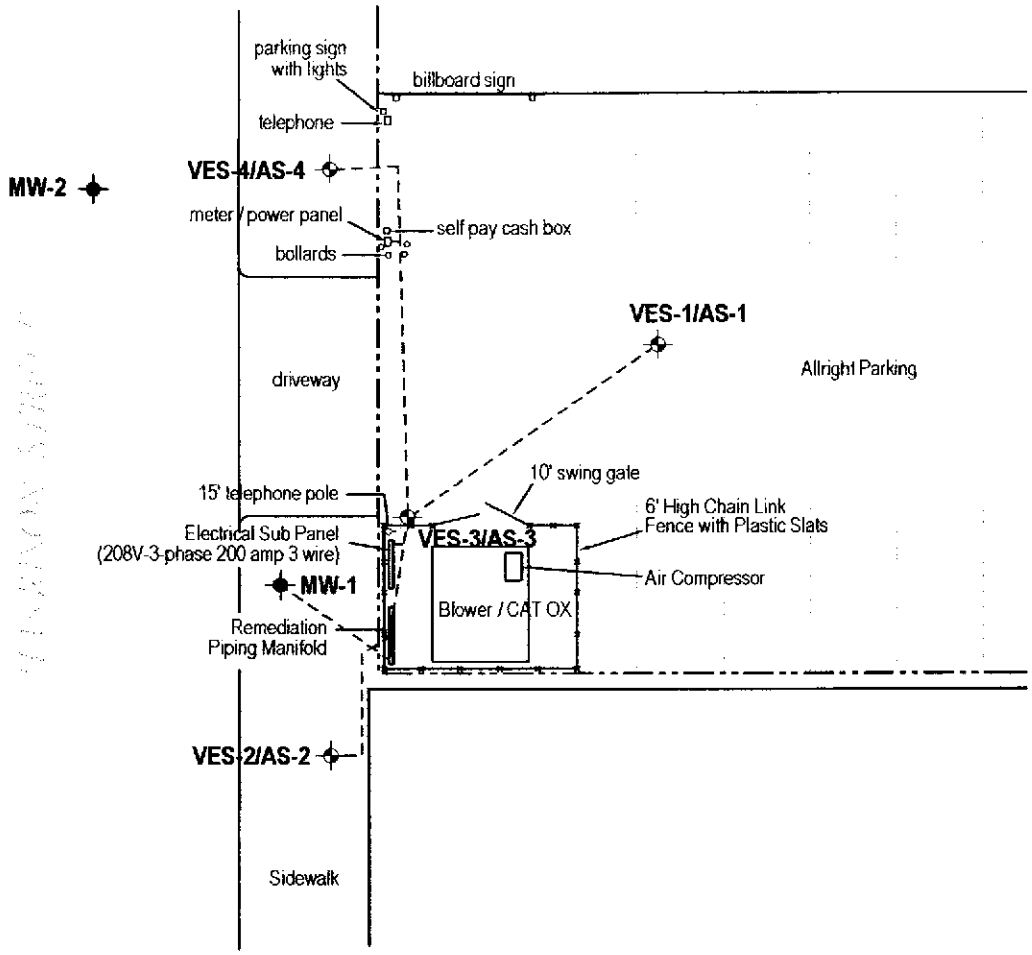
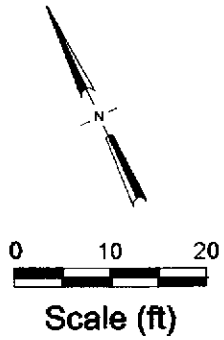
Groundwater Elevation and Hydrocarbon Concentration Map
December 22, 2003



EXPLANATION

VES-1/AS-1	Vapor Extraction / Air Sparging Coaxial Well Location
MW-1	Monitoring Well Location
- - - - - - - -	Underground Remediation Piping

Note: Monitoring well MW-1 is being utilized for vapor extraction



FIGURE

2

Allright Parking

1432 Harrison Street

Oakland, California

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Soil Vapor Extraction/ Air Sparge System Site Plan

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Table 1. Groundwater Elevations and Analytical Data - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID *TOC (feet)*	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					←		(µg/L)			→	
MW-1	8/1/1994	--	--	--	170,000	35,000	51,000	2,400	13,000	--	--
34.95	12/21/1994	19.53	--	15.42	180,000	41,000	64,000	3,100	100,000	--	--
	3/13/1995	18.66	--	16.29	150,000	31,000	45,000	2,500	17,000	--	--
	6/27/1995	18.20	--	16.75	71,000	17,000	18,000	1,600	7,700	--	--
	7/7/1995	18.35	--	16.60	71,000	17,000	18,000	1,600	7,700	--	--
	9/28/1995	18.20	--	16.75	110,000	27,000	34,000	1,700	14,000	--	--
	12/20/1995	19.96	--	14.99	120,000	33,000	43,000	2,300	15,000	--	--
	3/26/1996	19.27	--	15.68	140,000	29,000	36,000	1,900	13,000	<200*	d
	6/20/1996	18.64	--	16.31	110,000	30,000	38,000	2,200	13,000	<200*	--
	9/26/1996	19.35	--	15.60	170,000	28,000	40,000	2,200	15,000	ND**	--
	10/28/1996	19.58	--	15.37	--	--	--	--	--	--	--
	12/12/1996	19.68	--	15.27	110,000	36,000	47,000	2,500	16,000	ND*	--
	3/31/1997	18.80	--	16.15	160,000	24,000	39,000	1,900	13,000	ND*	--
	6/27/1997	19.26	--	15.69	130,000	25,000	36,000	2,000	14,000	ND*	--
	9/9/1997	19.70	--	15.25	99,000	22,000	27,000	1,600	13,000	270*	--
	12/18/1997	19.25	--	15.70	160,000	30,000	44,000	2,200	15,000	ND***	--
	3/12/1998	17.52	--	17.43	190,000	20,000	49,000	2,500	18,000	ND***	--
	6/22/1998	18.63	--	16.32	90,000	19,000	40,000	2,100	16,000	--	--
	9/18/1998	18.60	--	16.35	190,000	29,000	48,000	2,400	17,000	--	--
	12/23/1998	19.18	--	15.77	140,000	24,000	44,000	2,000	8,200	--	--
	3/29/1999	18.52	--	16.43	181,000	22,200	40,100	1,844	12,200	--	--
	6/23/1999	18.60	--	16.35	80,000	20,000	33,000	1,600	11,000	--	--
	9/24/1999	19.05	--	15.90	117,000	15,100	20,700	1,550	11,800	--	--
	12/23/1999	19.95	--	15.00	186,000	25,900	39,000	1,990	12,400	--	--
	3/21/2000	18.48	--	16.47	210,000	35,000	42,000	2,200	13,000	<3,000	a
	7/3/2000	18.95	--	16.00	200,000	33,000	46,000	2,200	15,000	<200*	a
	9/7/2000	19.45	Sheen	15.50	--	--	--	--	--	--	--
	12/5/2000	19.90	--	15.05	220,000	42,000	57,000	2,700	17,000	<200	a
	3/6/2001	18.20	--	16.75	180,000	27,000	39,000	2,000	13,000	<1200 (<20)	a,l
	6/8/2001	20.14	--	14.81	170,000	28,000	40,000	1,900	13,000	<200	a
	8/27/2001	21.19	--	13.76	130,000	24,000	33,000	1,600	11,000	<350	a
	10/25/2001	21.74	--	13.21	160,000	22,000	28,000	1,500	10,000	<350	a
	3/1/2002	21.39	0.41	13.85	--	--	--	--	--	--	--
	6/10/2002	22.30	--	12.65	210,000	30,000	51,000	3,100	22,000	<1,000*	a
34.96	9/3/2002	21.40	--	13.56	2,500,000	31,000	170,000	29,000	170,000	2,500,000	a
	12/22/2002	20.50	--	14.46	89,000	2,600	9,300	530	28,000	<1,700	a,m
	1/23/2003	18.57	--	16.39	130,000	600	1,600	<100	41,000	<50***	a,b,l
	6/12/2003	19.10	0.07	15.91	--	--	--	--	--	--	--
	7/23/2003	19.42	0.07	15.59	--	--	--	--	--	--	--
*35.37**	**12/22/2003**	**17.09**	**0.01**	**#VALUE!**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Table 1. Groundwater Elevations and Analytical Data - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID *TOC (feet)*	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					← (ug/L) →						
MW-2	8/1/1994	--	--	--	130,000	28,000	35,000	3,000	12,000	--	--
35.18	12/21/1994	19.91	--	15.27	200	140,000	200,000	3,500	22,000	--	--
	3/13/1995	19.15	--	16.03	500	9,200	23,000	7,000	36,000	--	--
	6/27/1995	18.74	--	16.44	120,000	23,000	30,000	2,700	13,000	--	--
	7/7/1995	18.80	--	16.38	120,000	23,000	30,000	2,700	13,000	--	--
	9/28/1995	19.30	--	15.88	110,000	23,000	29,000	2,500	11,000	--	--
	12/20/1995	20.24	--	14.94	83,000	980	1,800	2,200	10,000	--	--
	3/26/1996	19.69	--	15.49	150,000	23,000	32,000	2,800	12,000	<200*	d
	6/20/1996	19.20	--	15.98	94,000	15,000	23,000	2,400	12,000	<200*	--
	9/26/1996	19.80	--	15.38	150,000	20,000	29,000	2,800	12,000	ND**	--
	10/28/1996	20.18	--	15.00	--	--	--	--	--	--	--
	12/12/1996	20.17	--	15.01	58,000	3,100	11,000	1,700	8,100	220*	--
	3/31/1997	19.67	--	15.51	38,000	6,000	7,900	690	3,300	ND*	--
	6/27/1997	19.68	--	15.50	62,000	13,000	16,000	1,300	6,000	ND*	--
	9/9/1997	20.20	--	14.98	81,000	16,000	18,000	1,800	8,600	ND***	--
	12/18/1997	19.80	--	15.38	110,000	18,000	26,000	2,200	9,500	ND***	--
	3/12/1998	18.07	--	17.11	120,000	16,000	26,000	2,200	9,400	ND***	--
	6/22/1998	18.29	--	16.89	38,000	9,800	9,500	1,500	6,000	--	--
	9/18/1998	19.09	--	16.09	68,000	12,000	16,000	1,400	5,900	--	--
	12/23/1998	19.67	--	15.51	180,000	16,000	22,000	2,200	8,300	--	--
	3/29/1999	18.97	--	16.21	16,600	1,380	1,920	373	1,840	--	--
	6/23/1999	18.25	--	16.93	41,000	10,000	9,400	1,100	5,000	--	--
	9/24/1999	19.60	--	15.58	40,600	4,880	3,490	1,090	4,560	--	--
	12/23/1999	20.21	--	14.97	61,900	6,710	9,320	1,150	5,360	--	--
	3/21/2000	18.93	--	16.25	98,000	14,000	21,000	1,600	6,900	<1600	a
	7/3/2000	19.38	--	15.80	140,000	18,000	33,000	2,600	11,000	<200*	a
	9/7/2000	19.83	--	15.35	110,000	17,000	21,000	2,200	9,700	<100***	a,l
	12/5/2000	20.30	--	14.88	130,000	19,000	28,000	2,500	11,000	<200	a
	3/6/2001	19.57	--	15.61	32,000	3,400	3,400	580	2,500	<200	a
	6/8/2001	20.59	--	14.59	72,000	9,400	9,200	1,300	5,800	<200	a
	8/27/2001	21.79	--	13.39	110,000	17,000	28,000	2,600	11,000	<950	a
	10/25/2001	22.05	--	13.13	110,000	15,000	18,000	2,000	8,700	<350	a
	3/1/2002	21.80	--	13.38	3,100	370	180	62	330	<5.0*	a
	6/10/2002	22.83	--	12.35	7,800	2,000	1,100	76	570	<100*	a
35.21	9/3/2002	22.03	--	13.18	21,000	2,400	2,900	320	1,400	<500	a
	12/22/2002	22.70	--	12.51	630	48	56	19	82	<5.0	a
	1/23/2003	20.49	--	14.72	1,100	27	32	19	150	<25	a
	6/12/2003	21.03	--	14.18	10,000	2,100	1,600	150	660	<250	a
	7/23/2003	21.40	--	13.81	28,000	4,800	4,800	380	1,700	<500	a
	12/22/2003	**19.33**	--	**15.88**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	--

Table 1. Groundwater Elevations and Analytical Data - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID *TOC (feet)*	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					←		(µg/L)			→	
MW-3	8/1/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
33.97	12/21/1994	18.82	--	15.15	<50	<0.5	<0.5	<0.5	<0.5	--	e
(annual sampling)	3/13/1995	17.86	--	16.11	<50	<0.5	<0.5	<0.5	<0.5	--	f,g
	7/7/1995	18.25	--	15.72	--	--	--	--	--	--	h
	9/28/1995	18.00	--	15.97	--	--	--	--	--	--	--
	12/20/1995	18.74	--	15.23	--	--	--	--	--	--	--
	3/26/1996	18.25	--	15.72	--	--	--	--	--	--	--
	6/20/1996	18.35	--	15.62	--	--	--	--	--	--	--
	9/26/1996	19.12	--	14.85	--	--	--	--	--	--	--
	10/28/1996	19.11	--	14.86	--	--	--	--	--	--	--
	12/12/1996	18.61	--	15.36	--	--	--	--	--	--	--
	3/31/1997	18.35	--	15.62	--	--	--	--	--	--	--
	6/27/1997	18.81	--	15.16	--	--	--	--	--	--	--
	9/9/1997	19.18	--	14.79	--	--	--	--	--	--	--
	12/18/1997	18.64	--	15.33	--	--	--	--	--	--	--
	3/12/1998	17.56	--	16.41	--	--	--	--	--	--	--
	6/22/1998	18.64	--	15.33	--	--	--	--	--	--	--
	9/18/1998	18.33	--	15.64	--	--	--	--	--	--	--
	12/23/1998	18.60	--	15.37	--	--	--	--	--	--	--
	3/29/1999	17.85	--	16.12	--	--	--	--	--	--	--
	6/23/1999	18.67	--	15.30	--	--	--	--	--	--	--
	9/24/1999	18.64	--	15.33	--	--	--	--	--	--	--
	12/23/1999	19.32	--	14.65	--	--	--	--	--	--	--
	3/21/2000	17.89	--	16.08	--	--	--	--	--	--	--
	7/3/2000	18.40	--	15.57	--	--	--	--	--	--	--
	9/7/2000	18.75	--	15.22	--	--	--	--	--	--	--
	12/5/2000	19.03	--	14.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/2001	18.12	--	15.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/2001	20.02	--	13.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/27/2001	21.09	--	12.88	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	10/25/2001	21.29	--	12.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/1/2002	21.14	--	12.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/10/2002	21.99	--	11.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
34.01	9/3/2002	21.17	--	12.84	--	--	--	--	--	--	--
	12/22/2002	21.94	--	12.07	--	--	--	--	--	--	--
	1/23/2003	20.08	--	13.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/12/2003	20.95	--	13.06	--	--	--	--	--	--	--
	7/23/2003	21.28	--	12.73	--	--	--	--	--	--	--
	12/22/2003	**19.05**	--	**14.96**	--	--	--	--	--	--	--

Table 1. Groundwater Elevations and Analytical Data - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID *TOC (feet)*	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					←		(ug/L)			→	
MW-4	10/28/1996	19.32	--	14.43	10,000	3,900	420	400	360	<200*	n
33.75	12/12/1996	19.42	--	14.33	11,000	4,200	410	420	260	32*	--
	3/31/1997	18.67	--	15.08	ND	ND	ND	ND	ND	ND*	--
	6/27/1997	19.08	--	14.67	160	49	1.2	ND	5.9	ND*	--
	9/9/1997	19.33	--	14.42	7,400	5,000	410	230	470	33*	--
	12/18/1997	19.17	--	14.58	710	170	8.0	ND	39	ND***	--
	3/12/1998	17.68	--	16.07	1,300	410	21	ND	57	ND***	--
	6/22/1998	17.63	--	16.12	ND	ND	ND	ND	ND	--	--
	9/18/1998	18.58	--	15.17	ND	42	1.6	ND	4.8	--	--
	12/23/1998	19.01	--	14.74	1,900	1,000	76	50	120	--	--
	3/29/1999	18.35	--	15.40	ND	ND	ND	ND	ND	--	--
	6/23/1999	17.58	--	16.17	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.05	--	14.70	9,150	3,270	131	34	537	--	--
	12/23/1999	19.41	--	14.34	12,200	5,360	275	424	592	--	--
	3/21/2000	18.42	--	15.33	45,000	16,000	1,100	1,400	1,900	1400* (<35)***	a,l
	7/3/2000	18.82	--	14.93	33,000	10,000	720	840	1,800	<200*	a
	9/7/2000	19.21	--	14.54	26,000	8,800	800	740	1,500	<50***	a,c,l
	12/5/2000	19.60	--	14.15	41,000	11,000	840	930	1,900	<200	a
	3/6/2001	18.24	--	15.51	1,100	400	5.7	<0.5	20	<5.0	a
	6/8/2001	20.91	--	12.84	92	19	<0.5	<0.5	1	<5.0	a
	8/27/2001	21.63	--	12.12	49,000	17,000	1700	1,700	3,200	<260	a
	10/25/2001	21.70	--	12.05	57,000	16,000	1,500	1,600	2,600	<300	a
	3/1/2002	21.53	--	12.22	400	140	2.3	<0.5	12	<5.0*	a
	6/10/2002	22.23	--	11.52	<50	2.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/2002	21.85	--	11.90	31,000	9,700	300	650	1,100	<1,000	a
	12/22/2002	22.39	--	11.36	35,000	13,000	310	1,100	1,800	<1,500	a
	1/23/2003	20.61	--	13.14	51,000	18,000	430	1,500	2,200	<5.0***	a,l
	6/12/2003	21.20	--	12.55	80	12	<0.5	<0.5	1.0	<10	a
	7/23/2003	21.51	--	12.24	20,000	7,600	100	65	660	<250	a
	12/22/2003	**19.60**	**--**	**14.15**	**26,000**	**9,500**	**200**	**380**	**1,100**	**<150**	a

Table 1. Groundwater Elevations and Analytical Data - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID *TOC (feet)*	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	*TPHg*	*Benzene*	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					←		(µg/L)			→	
MW-5	10/28/1996	19.88	--	14.75	90	4.0	0.6	<0.50	<0.50	16*	n
34.63	12/12/1996	20.09	--	14.54	230	5.6	0.9	ND	0.9	3.6*	--
	3/31/1997	19.24	--	15.39	90	3.1	ND	ND	ND	ND*	--
	6/27/1997	19.16	--	15.47	ND	ND	ND	ND	ND	ND*	--
	9/9/1997	19.93	--	14.70	ND	ND	ND	ND	ND	ND*	--
	12/18/1997	19.77	--	14.86	ND	ND	ND	ND	ND	ND***	--
	3/12/1998	19.77	--	14.86	79	2.3	ND	0.8	ND	ND*	--
	6/22/1998	18.08	--	16.55	ND	ND	ND	ND	ND	--	--
	9/18/1998	19.12	--	15.51	ND	ND	ND	ND	ND	--	--
	12/23/1998	19.60	--	15.03	ND	0.8	0.9	ND	ND	--	--
	3/29/1999	18.88	--	15.75	ND	ND	ND	ND	ND	--	--
	6/23/1999	18.05	--	16.58	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.61	--	15.02	ND	ND	ND	ND	ND	--	--
	12/23/1999	20.01	--	14.62	ND	ND	ND	ND	ND	--	--
	3/21/2000	19.05	--	15.58	140	<0.5	<0.5	<0.5	<0.5	<5.0	k
	7/3/2000	19.40	--	15.23	85	8.1	3.1	1.6	7.8	<5.0*	a
	9/7/2000	19.62	--	15.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	12/5/2000	20.25	--	14.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/2001	19.07	--	15.56	91	5.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/2001	20.77	--	13.86	290	22.0	0.8	<0.5	<0.5	<5.0	a
	8/27/2001	21.33	--	13.30	660	24.0	2.2	1.3	4.0	<25	a
	10/25/2001	21.62	--	13.01	55	3.5	<0.5	<0.5	<0.5	<5.0	a
	3/1/2002	21.49	--	13.14	200	1.9	0.69	<0.5	<0.5	<5.0*	a
	6/10/2002	22.15	--	12.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/2002	21.50	--	13.13	60	1.9	<0.5	<0.5	0.77	<5.0	a
	12/22/2002	22.19	--	12.44	82	0.57	<0.5	0.68	<0.5	<5.0	a
	1/23/2003	20.27	--	14.36	<50	2.1	<0.5	<0.5	<0.5	<5.0	--
	6/12/2003	21.10	--	13.53	<50	0.88	<0.5	<0.5	<0.5	<5.0	--
	7/23/2003	21.47	--	13.16	<50	4.0	<0.5	<0.5	<0.5	<5.0	--
	12/22/2003	**19.57**	**--**	**15.06**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	**--**

Table 1. Groundwater Elevations and Analytical Data - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID *TOC (feet)*	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					← (µg/L) →						
MW-6	10/28/1996	20.02	--	15.87	<50	<0.50	<0.50	<0.50	<0.50	<2.0*	n
35.89	12/12/1996	20.18	--	15.71	ND	ND	ND	ND	ND	ND*	--
(annual sampling)	3/31/1997	19.81	--	16.08	--	--	--	--	--	--	--
	6/27/1997	19.76	--	16.13	--	--	--	--	--	--	--
	9/9/1997	20.06	--	15.83	ND	ND	ND	ND	ND	ND*	--
	12/18/1997	19.90	--	15.99	ND	ND	ND	ND	ND	--	--
	3/12/1998	18.00	--	17.89	ND	ND	ND	ND	ND	ND*	--
	6/22/1998	18.43	--	17.46	ND	ND	ND	ND	ND	--	--
	9/18/1998	19.10	--	16.79	ND	ND	ND	ND	ND	--	--
	12/23/1998	19.61	--	16.28	ND	ND	ND	ND	ND	--	--
	3/29/1999	18.92	--	16.97	ND	ND	ND	ND	ND	--	--
	6/23/1999	18.41	--	17.48	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.61	--	16.28	ND	ND	ND	ND	ND	--	--
	12/23/1999	20.30	--	15.59	ND	ND	ND	ND	ND	--	--
	3/21/2000	18.97	--	16.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/3/2000	19.46	--	16.43	59	5.1	2.3	1.1	5.3	<5.0*	a
	9/7/2000	19.95	--	15.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	12/5/2000	20.50	--	15.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/2001	19.54	--	16.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/2001	20.92	--	14.97	<50	<0.5	<0.5	<0.5	<0.5	<5.1	--
	8/27/2001	21.37	--	14.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	10/25/2001	21.59	--	14.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/1/2002	21.33	--	14.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/10/2002	21.97	--	13.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/2002	21.55	--	14.34	--	--	--	--	--	--	--
	12/22/2002	22.25	--	13.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	1/23/2003	20.47	--	15.42	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/12/2003	21.09	--	14.80	--	--	--	--	--	--	--
	7/23/2003	21.42	--	14.47	--	--	--	--	--	--	--
	12/22/2003	**19.49**	**--**	**16.40**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
Trip Blank	3/21/2000	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	9/7/2000	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

Table 1. Groundwater Elevations and Analytical Data - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID	Date	Depth to Groundwater	SPH Thickness	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (feet)		(feet)	(feet)	(feet)	←			(µg/L)		→	

Abbreviations

TPHg = Total petroleum hydrocarbons as gasoline by EPA method Modified 8015.

Benzene, toluene, ethylbenzene, xylenes by EPA method 8020.

-- = Not Sampled/Not Analyzed

<n = Not detected in sample above n µg/L.

ND = Not detected at minimum quantitation limit. See laboratory reports.

µg/L = micrograms per liter

MTBE = Methyl tert-butyl ether

* = MTBE by EPA Method 8020

** = MTBE by EPA Method 8240

*** = MTBE by EPA Method 8260

VOCs = volatile organic compounds

x = Groundwater elevation adjusted for free product by the relation:

Groundwater Elevation = Well Elevation - Depth to Water + (0.7 x free product thickness)

* = The wellhead elevation was raised by 0.41 feet when well MW-1 was connected to the SVE system on October 31, 2003.

Notes

a = Unmodified or weakly modified gasoline is significant.

b = Lighter than water immiscible sheen is present.

c = Liquid sample that contains greater than ~5 vol. % sediment.

d = MTBE result confirmed by secondary column or GC/MS analysis.

e = Sample analyzed for purgeable hydrocarbons by EPA method 8010, no purgeable hydrocarbons were detected.

f = Sample analyzed for VOCs by EPA method 8240, no non-BTEX compounds were detected.

g = Sample analyzed for Total Petroleum Hydrocarbons as motor oil (TPHmo) by EPA method Modified 8015, no TPHmo was detected.

h = Analytic sampling discontinued. Approved by Alameda County Department of Environmental Health.

i = Lighter than gasoline range compounds are significant.

j = Gasoline range compounds having broad chromatographic peaks are significant.

k = No recognizable pattern.

l = Sample diluted due to high organic content.

m= Liquid sample that contains greater than ~2 vol. % sediment.

n = TOC well elevation was increased by 3 ft based on a benchmark discrepancy discovered during a well survey performed on September 11, 2002

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Borsuk Site, 1432 Harrison Street, Oakland, California

Date	Hour Meter Readings (hrs)	System Uptime (%)	System Vacuum ("H2O)	Total Well Flow Rate (prior to dilution) (scfm)	Total Well HC Conc. (ppmv) TPHg	System Inlet Temp. (degrees F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc.[1] (ppmv) TPHg	Effluent HC Conc.[1] (ppmv) TPHg	Effluent HC Conc.[1] (ppmv) Benz	HC Removal Rate[2] (lbs/day) TPHg	Emission Rate[2] (lbs/day) TPHg	Emission Rate[2] (lbs/day) Benz	TPHg Destruction Efficiency[3] (%)	Gasoline Cumulative Removal[4] (lbs)
12/20/01	13.0	--		--	17,000	825	170	920	<10	<0.15	50.18	<0.545	<0.007	--[5]	0
1/7/02	443.8	100%		--	12,000	1017	105	1,400	<10	<0.15	47.16	<0.337	<0.005	--[5]	901
2/4/02	576.2	20%		--	13,000	916	150	1,100	<10	<0.15	52.94	<0.481	<0.007	--[5]	1161
3/5/02	1268.2	99%		--	16,000	1020	135	1,000	<10	<0.15	43.31	<0.433	<0.006	--[5]	2687
4/2/02	1939.9	100%		--	4,800	715	114	390	<10	<0.15	14.26	<0.366	<0.005	--[5]	3899
4/15/02	2253.2	100%	136	18.3	4,200	709	*	*	28	<0.15	24.67	0.16	<0.001	99.3	4086
5/6/02	2655.2	80%	77	10.1	5,100	735	*	*	14	<0.15	16.58	0.05	<0.000	99.7	4499
6/5/02	3373.2	100%	80	15.1	3,800	652	*	*	14	<0.15	18.41	0.07	<0.001	99.6	4995
7/2/02	4024.9	101%	80	16.3	3,000	672	*	*	<15	0.16	15.70	<0.078	<0.001	99.5	5495
8/5/02	4838.8	100%	80	11.6	1,900	667	*	*	<10	<0.15	7.10	<0.037	<0.001	--[5]	6027
9/10/02	5700.9	100%	80	10.5	1,800	609	*	*	<10	<0.15	6.08	<0.034	<0.000	--[5]	6282
10/2/02	6229.7	100%	81	14.0	2,900	801	*	*	<10	<0.15	13.04	<0.045	<0.001	--[5]	6416

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Borsuk Site, 1432 Harrison Street, Oakland, California

Date	Hour Meter Readings (hrs)	System Uptime (%)	System Vacuum ("H2O)	Total Well Flow Rate (prior to dilution) (scfm)	Total Well HC Conc. (ppmv) TPHg	System Inlet Temp. (degrees F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc.[1] (ppmv) TPHg	Effluent HC Conc.[1] (ppmv) TPHg	Effluent HC Conc.[1] (ppmv) Benz	HC Removal Rate[2] (lbs/day) TPHg	Emission Rate[2] (lbs/day) TPHg	Emission Rate[2] (lbs/day) Benz	TPHg Destruction Efficiency[3] (%)	Gasoline Cumulative Removal[4] (lbs)
11/6/02	7073.8	100%	82	12.1	1,900	848	*	*	<10	<0.15	7.40	<0.039	<0.001	--[5]	6875
12/5/02	7771.5	100%	90	8.4	1,400	840	*	*	<10	<0.15	3.78	<0.027	<0.000	--[5]	7090
1/8/03	8580.5	99%	91	9.5	3,100	813	*	*	<10	<0.15	9.42	<0.030	<0.000	--[5]	7217
2/12/03	9424.0	100%	93	7.6	5,200	801	*	*	<10	<0.15	12.61	<0.024	<0.000	--[5]	7548
3/4/03	9902.8	100%	90	5.5	4,100	798	*	*	<10	<0.15	7.27	<0.018	<0.000	--[5]	7800
4/3/03	10623.3	100%	115	9.5	1,600	802	*	*	<10	<0.15	4.86	<0.030	<0.000	--[5]	8018
5/15/03	11629.8	100%	119	6.7	1,300	840	*	*	<10	<0.15	2.80	<0.022	<0.000	--[5]	8222
6/2/03	12061.5	100%	116	4.4	526	805	*	*	<10	<0.15	0.75	<0.014	<0.000	--[5]	8272
7/2/03	12779.5	100%	120	9.0	680	836	*	*	<10	<0.15	1.95	<0.029	<0.000	--[5]	8295
8/7/03	13643.9	100%	117	7.6	370	749	*	*	<10	<0.15	0.90	<0.024	<0.000	--[5]	8365
9/3/03	14288.9	100%	116	9.7	2,000	737	*	*	<10	<0.15	6.19	<0.031	<0.000	--[5]	8389

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Borsuk Site, 1432 Harrison Street, Oakland, California

Date	Hour Meter Readings (hrs)	System Uptime (%)	System Vacuum ('H2O)	Total Well Flow Rate (prior to dilution) (scfm)	Total Well HC Conc. (ppmv) TPHg	System Inlet Temp. (degrees F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc. [1] (ppmv) TPHg	Effluent HC Conc. [1] (ppmv) TPHg	Effluent HC Conc. [1] (ppmv) Benz	HC Removal Rate [2] (lbs/day) TPHg	Emission Rate [2] (lbs/day) TPHg	Emission Rate [2] (lbs/day) Benz	TPHg Destruction Efficiency [3] (%)	Gasoline Cumulative Removal [4] (lbs)
10/7/2003	15109.8	100%	119	4.5	1,100	752	*	*	<10	<0.15	1.57	<0.014	<0.000	--[3]	8601
11/11/2003	15881.9	92%	90	9.0	7,000	765	38	3,700	7.3	0.18	20.11	0.021	0.000	--[3]	8652
12/2/2003	16378.9	99%	96	3.0	2,100	717	*	*	<10	<0.15	2.01	<0.010	<0.000	--[3]	9068
1/7/2004	17180.9	93%	98	3.2	--	--	*	*	--	--	--	--	--	--	9135

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

Benz = Benzene

HC = Hydrocarbon vapor concentrations measured as TPHg and/or benzene

ppmv = Parts per million by volume. Analytical lab results converted from micrograms per liter (ug/l) to ppmv assumes the molecular weight of gasoline to be equal to that of hexane, at 1 atmosphere of pressure and 20 degrees Celsius.

scfm = standard cubic feet per minute

[1] TPHg and benzene concentrations based on Horiba gas analyzer measurements and/or lab results by Modified EPA Methods 8015 and 8020.
Laboratory analytic results for TPHg and benzene are converted from ug/l to ppmv using conversion rates of 0.28 for TPHg and 0.308 for benzene.

[2] The hydrocarbon removal/emission rate is based on the Bay Area Air Quality Management's District's (BAAQMD) Procedures for Soil Vapor Extraction where Rate = concentration (ppmv) x flow rate (cfm) x 1 lb-mole/386x10^6 ft^3 x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene) x 1440 min/day.

[3] As per BAAQMD Permit, destruction efficiency requirements are waived if system TPHg effluent concentration is <10.

[4] Gasoline Cumulative Removal = The previous removal rates multiplied by the interval days of operation plus the previous total removal amount.
The total TPHg removal is based on analytic results and/or field measurements.

* = Flow Rate and Hydrocarbon Concentrations are now measured from the well manifold because there is no longer any dilution air affecting the calculation of the hydrocarbon removal rate.

Table 3. SVE System Parameters - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
MW-1	11/11/2003	105	1.0	26,000	open
	11/17/2003	85	0.7	3,530	open
	12/2/2003	94	1.0	5,700	open
	12/10/2003	93	1.6	11,000	open
	12/23/2003	95	0.8	10,000	open
VES-1	12/13/2001	--	--	36,000	open
	12/20/2001	25	6.5	43,000	open
	12/27/2001	48	12.4	41,000	open
	1/7/2002	100	20.5	>10,000	open
	2/8/2002	140	27.0	>10,000	open
	3/5/2002	34	6.3	>10,000	open
	4/2/2002	83	13.5	10070	open
	4/15/2002	101	28.2	10070	open
	5/22/2002	80	22.5	9980	open
	5/27/2002	81	4.5	27000	open
	6/5/2002	77	22.1	11110	open
	6/21/2002	81	*	7810	open
	7/2/2002	82	25	10400	open
	7/26/2002	81	22.5	5210	open
	8/5/2002	80	5.5	6020	open
	9/10/2002	80	5.2	9180	open
	10/2/2002	80	10.5	11070	open
	11/6/2002	82	9.0	4850	open
	12/5/2002	90	8.5	4000	open
	1/8/2003	92	5.1	2340	open
	1/24/2003	95	4.0	2350	open
	3/4/2003	90	3.6	1750	open
	3/17/2003	93	7.5	1360	open
	4/3/2003	115	4.0	720	open
	4/14/2003	116	--	1180	open
	5/7/2003	117	3.5	660	open
	5/15/2003	119	6.0	1950	open
	5/27/2003	117	4.1	1600	open
	6/13/2003	118	3.9	1525	open
	6/23/2003	118	--	--	open
	7/2/2003	119	25*	1270	open
	7/11/2003	118	3.5*	--	open
	8/7/2003	117	*	50	open
	8/15/2003	117	1.4*	105	closed
	8/26/2003	120	4.0	200	open
	9/3/2003	116	2.9*	190	open
	10/2/2003	116	7.0	70	closed
	10/7/2003	114	21.0	2	closed
	10/15/2003	118	23*	1650	open
	10/21/2003	117	21.0	1090	open
	11/17/2003	85	0.7	2050	open
	12/2/2003	94	0.67	1550	open
	12/10/2003	92	0.63	5700	open
	12/23/2003	95	0.8	7000	open

Table 3. SVE System Parameters - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
VES-2	12/13/2001	--	--	40,000	open
	12/20/2001	25	6.0	42,500	open
	12/27/2001	48	12.1	35,000	open
	1/7/2002	100	21.5	>10,000	open
	2/8/2002	140	25.1	>10,000	open
	3/5/2002	34	7.6	>10,000	open
	4/2/2002	83	13.2	--	open
	4/15/2002	102	24.1	1347	open
	5/22/2002	81	26.1	1888	open
	5/27/2002	81	9.5	4710	open
	6/5/2002	79	20.7	2090	open
	6/21/2002	82	47	1820	open
	7/2/2002	81	28.9	5210	open
	7/26/2002	81	13.1	1515	open
	8/5/2002	80	10.5	1925	open
	9/10/2002	80	8.9	1850	open
	10/2/2002	80	8.5	3370	open
	11/6/2002	82	9.0	2180	open
	12/5/2002	90	--	1870	open
	1/8/2003	92	--	6210	open
	1/24/2003	95	4	9630	open
	3/4/2003	90	2.5	5790	open
	3/17/2003	93	--	2020	open
	4/3/2003	115	--	3230	open
	4/14/2003	116	--	2980	open
	5/7/2003	117	9.0	700	open
	5/15/2003	119	8.0	475	open
	5/27/2003	117	5.3	515	open
	6/13/2003	118	4.1	525	open
	6/23/2003	118	--	--	open
	7/2/2003	119	9*	365	open
	7/11/2003	118	5.0*	--	open
	8/7/2003	117	15.2*	250	open
	8/15/2003	117	8.5*	365	open
	8/26/2003	121	4.2	245	open
	9/3/2003	116	*	1295	open
	10/2/2003	120	4.0	410	open
	10/7/2003	118	17.0	1120	open
	10/15/2003	119	21.0	1550	open
	10/21/2003	119	21.0	1675	open
	11/17/2003	85	1.9	1115	open
	12/2/2003	94	2.0*	460	open
	12/10/2003	92	2.0	1740	open
	12/23/2003	95	1.5	1510	open

Table 3. SVE System Parameters - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
VES-3	12/13/2001	--	--	38,000	open
	12/20/2001	25	7.0	41,500	open
	12/27/2001	48	12.0	61,000	open
	1/7/2002	100	22.5	>10,000	open
	2/8/2002	140	26.5	>10,000	open
	3/5/2002	47	7.5	>10,000	open
	4/2/2002	84	11.1	--	open
	4/15/2002	102	24.8	4260	open
	5/22/2002	85	16.5	7090	open
	5/27/2002	81	6.7	7010	open
	6/5/2002	85	14.7	5290	open
	6/21/2002	80	25.5	3450	open
	7/2/2002	82	32.2	4820	open
	7/26/2002	81	9.3	3400	open
	8/5/2002	80	4.5	3380	open
	9/10/2002	80	7.1	3150	open
	10/2/2002	80	4.0	2140	open
	11/6/2002	82	5.5	1215	open
	12/5/2002	90	4.5	1015	open
	1/8/2003	92	5.5	3840	open
	1/24/2003	95	3.0	6040	open
	3/4/2003	90	3.5	3430	open
	3/17/2003	93	1.3	1980	open
	4/3/2003	115	3.5	1900	open
	4/14/2003	116	--	1950	open
	5/7/2003	117	1.5	1320	open
	5/15/2003	119	2.6	1530	open
	5/27/2003	117	1.6	1250	open
	6/13/2003	118	1.5	1000	open
	6/23/2003	118	--	--	open
	7/2/2003	119	14*	850	open
	7/11/2003	118	1.9	--	open
	8/7/2003	117	2.5	375	open
	8/15/2003	117	2.7	380	open
	8/26/2003	123	2.4	5	closed
	9/3/2003	116	3.9*	3430	open
	10/2/2003	121	30*	25	closed
	10/7/2003	117	19.0	225	closed
	10/15/2003	118	23.0	30	closed
	10/21/2003	118	21.0	70	closed
	11/17/2003	86	2.0	1425	open
	12/2/2003	94	1.3	280	close
	12/10/2003	92	2.2	100	open
	12/23/2003	95	2.0	50	open

Table 3. SVE System Parameters - Borsuk Site, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
VES-4	12/13/2001	--	--	35,000	open
	12/20/2001	25	4.9	46,500	open
	12/27/2001	48	12.2	53,000	open
	1/7/2002	100	23.0	>10,000	open
	2/8/2002	140	28.1	>10,000	open
	3/5/2002	47	9.3	>10,000	open
	4/2/2002	84	11.5	--	open
	4/15/2002	102	22.5	5350	open
	5/22/2002	80	21.7	570	open
	5/27/2002	81	6.3	10460	open
	6/5/2002	80	18	4490	open
	6/21/2002	81	41.5	2580	open
	7/2/2002	81	38	9690	open
	7/26/2002	81	2.3	2230	open
	8/5/2002	80	4.4	6160	open
	9/10/2002	80	5.5	2410	open
	10/2/2002	80	3.5	1777	open
	11/6/2002	82	4.5	920	open
	12/5/2002	90	7.0	420	open
	1/8/2003	92	4.0	1805	open
	1/24/2003	95	5.0	2720	open
	3/4/2003	90	4.0	1390	open
	3/17/2003	93	1.0	1300	open
	4/3/2003	115	2.3	1090	open
	4/14/2003	116	--	1050	open
	5/7/2003	117	1.8	610	open
	5/15/2003	119	2.7	2100	open
	5/27/2003	117	2.0	1850	open
	6/13/2003	118	2.0	1800	open
	6/23/2003	118	--	--	open
	7/2/2003	119	17*	1550	open
	7/11/2003	118	2.2	--	open
	8/7/2003	117	2.6	1550	open
	8/15/2003	117	2.8	630	open
	8/26/2003	122	3.7	465	open
	9/3/2003	--	--	25	closed
	10/2/2003	117	7.5	2550	open
	10/7/2003	116	17.0	15	close
	10/15/2003	117	30.0	75	closed
	10/21/2003	117	28.0	50	closed
	11/17/2003	86	3.0	70	closed
	12/10/2003	92	3.0	2850	open
	12/23/2003	95	0.5	2300	open

Notes:

Hydrocarbon concentrations are measured using a Horiba MEXA-554 gas analyzer. Concentration readings above 10,000 ppmv are above the instrument calibration and are not reliable.

-- = Data not available or not collected

* = unable to get reading due to the presence of water

CAMBRIA

APPENDIX A

Groundwater Monitoring Field Data Sheets

CAMBRI

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Product Thickness	Amount of Product Removed	Casing Diam.	Comment
MW-1	4:20	17.08	17.09	0.01	removed a thick sheen		
MW-2	4:00		19.33				
MW-3	3:30		19.05				
MW-4	4:10		19.60				
MW-5	3:40		19.57				
MW-6	3:50		19.49				

Project Name: Borsuk

Measured By: [signature]

Project Number/Task: 540-0188/054

Date: 12-22-03

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: GH	Well ID: MW-2
Project Number: 540-0188	Date: 12-22-03	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2 ☐ pvc Technician(s): SG
Initial Depth to Water: 19.33	Total Well Depth: 25.40	Water Column Height: 6.07
Volume/ft: 0.16	1 Casing Volume: 0.97	3 Casing Volumes: 2.91
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 3
Start Purge Time: 5:40	Stop Purge Time: 6:09	Total Time: 29mins

Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
5:50	1	18.6	7.19	892	
6:00	2	18.5	7.25	870	
6:10	3	18.5	7.27	621	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-2	12-22-03	6:15	3voa	HCl	TPHg BTEX MTBE	8015/8020 8260

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: GrH	Well ID: MW-4
Project Number: 540-0188	Date: 12-22-03	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2 ☐ pvc
		Technician(s): SG
Initial Depth to Water: 19.60	Total Well Depth: 24.50	Water Column Height: 4.90
Volume/ft: 0.16	1 Casing Volume: 0.78	3 Casing Volumes: 2.35
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 2
Start Purge Time: 6:30	Stop Purge Time: 6:59	Total Time: 29 mins

Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
6:40	1	18.6	7.13	1041	
6:50	1.5	18.6	7.20	913	
7:00	2	18.6	7.22	960	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	12-22-03	7:05	3voa	HCl	TPHg BTEX MTBE	8015/8020 8260

\TEMPLATE\FORMS\FIELD\WELLSAMP2.WPD
SM 5/31/94

CAMBRIA

WELL SAMPLING FORM

roject Name: Borsuk	Cambria Mgr: GH	Well ID: MW-5
roject Number: 540-0138	Date: 12-22-03	Well Yield:
ite Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2 0 pvc
		Technician(s): SG
nitial Depth to Water: 19.57	Total Well Depth: 28.34	Water Column Height: 8.77
/olume/ft: 0.16	1 Casing Volume: 1.40	3 Casing Volumes: 4.20
'urging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 4
Start Purge Time: 4:45	Stop Purge Time: 5:19	Total Time: 29mins

asing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
4:55	1.5	18.6	7.14	610	
5:10	3	18.9	7.10	640	
5:20	4	18.8	7.08	693	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-5	12-22-03	5:25	3 VOA	HCl	TPHg BTEX MTBE	8015/8020 8260

CAMBRIA

APPENDIX B

Analytical Results for Groundwater Sampling

McCampbell Analytical Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188/054; Borsuk	Date Sampled: 12/23/03
5900 Hollis St, Suite A		Date Received: 12/23/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Reported: 01/02/04
	Client P.O.:	Date Completed: 01/02/04

WorkOrder: 0312478

January 02, 2004

Dear Gretchen:

Enclosed are:

1). the results of 3 analyzed samples from your **#540-0188/054; Borsuk 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
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #540-0188/054; Borsuk	Date Sampled: 12/23/03
5900 Hollis St, Suite A		Date Received: 12/23/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Extracted: 12/30/03-01/01/04
	Client P.O.:	Date Analyzed: 12/30/03-01/01/04

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0312478

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	W	ND	ND	ND	ND	ND	ND	1	114
002A	MW-4	W	26,000,a	ND<150	9500	200	380	1100	10	94.6
003A	MW-5	W	ND	ND	ND	ND	ND	ND	1	112
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
		S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 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.

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
http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W WorkOrder: 0312478

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 9833 Spiked Sample ID: 0312470-004A

	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) £	ND	60	94.8	95	0.202	90.8	85.9	5.57	70	130
MTBE	ND	10	97	101	4.53	93.9	90.5	3.65	70	130
Benzene	ND	10	105	108	2.73	101	98.4	2.66	70	130
Toluene	ND	10	108	111	3.07	105	101	3.39	70	130
Ethylbenzene	ND	10	110	113	2.76	106	97.7	8.27	70	130
Xylenes	ND	30	110	113	2.99	110	107	3.08	70	130
%SS:	117	100	106	110	3.37	105	103	1.60	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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0312478

Report to:
Mary C. Holland-Ford
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608

TEL: (510) 420-0700
FAX: (510) 420-3394
ProjectNo: #540-0188/054; Borsuk
PO:

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

Requested TAT: **5 days**
Date Received: **12/23/03**
Date Printed: **12/23/03**

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
0312478-001	MW-2	Water	12/23/03 6:15:00	☐	A														
0312478-002	MW-4	Water	12/23/03 7:05:00	☐	A														
0312478-003	MW-5	Water	12/23/03 5:25:00	☐	A														

Test Legend:

1 G-MBTEX_W	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Prepared by: Melissa Valles

Comments:

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

cele

0312478

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No

Report To: Gretchen Hellman Bill To: Cambria Env. Tech.
Company: Cambria Environmental Technology Inc.
6262 Hollis Street
Emeryville, CA 94608 E-mail:
Tele: 510-420-3305 Fax: ~~510-450-8295~~ 510-420-9170
Project #: 540-0188/054 Project Name: Borsuk
Project Location: 1432 Harrison St. Oakland, CA
Sampler Signature: J. Hall

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	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: confirm all MTBE by 8260	Comments
MW-2		12-22-03	6:15	3	VOA	X					X	X			X															X X	
MW-4		12-22-03	7:05	3	VOA	X					X	X			X																
MW-5		12-22-03	5:25	3	VOA	X					X	X			X																

Relinquished By:	Date:	Time:	Received By:
	12-23-03	6:00	Secure location
	12/23	950	ULTRA GT / E-RICARDO
	12/23	1335	

Remarks:

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB
PRESERVATION: VOAS ✓ | O&G | METALS | OTHER

CAMBRIA

APPENDIX C

Analytical Results for SVE System Operation

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188-55; BORSUK	Date Sampled: 10/07/03
		Date Received: 10/08/03
	Client Contact: Gretchen Hellmann	Date Reported: 10/15/03
	Client P.O.:	Date Completed: 10/15/03

WorkOrder: 0310125

October 15, 2003

Dear Gretchen:

Enclosed are:

1). the results of **2** analyzed samples from your **#540-0188-55; BORSUK 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
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #540-0188-55; BORSUK	Date Sampled: 10/07/03
5900 Hollis St, Suite A		Date Received: 10/08/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Extracted: 10/09/03
	Client P.O.:	Date Analyzed: 10/09/03

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0310125

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	1100,a	ND<15	6.1	7.1	ND<1.0	4.9	4	86.3
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	114

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	10	1.5	0.15	0.15	0.15	0.15	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 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.

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
http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: A WorkOrder: 0310125

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 8865 Spiked Sample ID: N/A

	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	uL/L	uL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	N/A	60	N/A	N/A	N/A	113	110	2.66	70	130
MTBE	N/A	10	N/A	N/A	N/A	103	98.7	4.68	70	130
Benzene	N/A	10	N/A	N/A	N/A	115	115	0	70	130
Toluene	N/A	10	N/A	N/A	N/A	109	106	2.74	70	130
Ethylbenzene	N/A	10	N/A	N/A	N/A	114	114	0	70	130
Xylenes	N/A	30	N/A	N/A	N/A	103	107	3.17	70	130
%SS:	N/A	100	N/A	N/A	N/A	108	105	3.31	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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0310125

Client:
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608

TEL: (510) 420-0700
FAX: (510) 420-3394
ProjectNo: #540-0188-55; BORSUK
PO:

Date Received: **10/8/03**
Date Printed: **10/8/03**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests: 8021B/8015C
0310125-001	INF	Air	10/7/03	☐	A
0310125-002	EFF	Air	10/7/03	☐	A

Prepared by: Melissa Valles

Comments:

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

cre

03101 25

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☐ Yes ☒ No

Report To: Gretchen Hellmann Bill To: SAME
Company: Cambria Environmental Technology, Inc.
5900 Hollis Street Suite A
Emeryville, CA 94608 E-mail: ghellmann@cambria-env.com
Tele: 510 420-3305 Fax: 510 420-9170
Project #: 540-0188-55 Project Name: BORSUK
Project Location: 1432 Harrison Street, Oakland, CA
Sampler Signature: [signature]

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
INF	System	10/7/03		1	Tb			X							X																
EFF	System	10/7/03		1	Tb			X							X																

ICE/T°____
GOOD CONDITION ✓
HEAD SPACE ABSENT____
DECHLORINATED IN LAB____
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB____
PRESERVATION | VOAS | O&G | METALS | OTHER

Relinquished By:	Date:	Time:	Received By:
[signature]	10/8/03	9am	Seved Co cortor
UTFedEX #280	10/8	13:15	[signature]

Remarks: Report in ppm(v); Reporting Limit is 10 ppm(v).

Use 20 mL injection volume.

Please ~~FAX~~ email results.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188-55; BORSUK	Date Sampled: 11/11/03
		Date Received: 11/12/03
	Client Contact: Gretchen Hellmann	Date Reported: 11/17/03
	Client P.O.:	Date Completed: 11/17/03

WorkOrder: 0311141

November 17, 2003

Dear Gretchen:

Enclosed are:

1). the results of **3** analyzed samples from your **#540-0188-55; BORSUK 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
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #540-0188-55; BORSUK	Date Sampled: 11/11/03
5900 Hollis St, Suite A		Date Received: 11/12/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Extracted: 11/12/03
	Client P.O.:	Date Analyzed: 11/12/03

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0311141

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	7000,a,m	ND<70	67	93	ND<5.0	66	20	---#
002A	EFF	A	7.3,m	ND	0.18	0.094	ND	0.047	1	106
003A	MID	A	3700,a,m	30	30	48	20	26	20	94.3

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	10	1.5	0.15	0.15	0.15	0.15	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 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.

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
http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: A WorkOrder: 0311141

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 9297 Spiked Sample ID: N/A

	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	uL/L	uL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	N/A	60	N/A	N/A	N/A	102	105	2.59	70	130
MTBE	N/A	10	N/A	N/A	N/A	119	111	7.24	70	130
Benzene	N/A	10	N/A	N/A	N/A	117	112	4.39	70	130
Toluene	N/A	10	N/A	N/A	N/A	109	105	4.38	70	130
Ethylbenzene	N/A	10	N/A	N/A	N/A	112	111	1.39	70	130
Xylenes	N/A	30	N/A	N/A	N/A	100	100	0	70	130
%SS:	N/A	100	N/A	N/A	N/A	106	102	3.41	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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0311141

Client:
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608

TEL: (510) 420-0700
FAX: (510) 420-3394
ProjectNo: #540-0188-55; BORSUK
PO:

Date Received: **11/12/03**
Date Printed: **11/12/03**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests SW8021B/8015Cm		
0311141-001	INF	Air	11/11/03 6:20:00	☐	A		
0311141-002	EFF	Air	11/11/03 6:25:00	☐	A		
0311141-003	MID	Air	11/11/03 6:23:00	☐	A		

Prepared by: Melissa Valles

Comments:

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

0311141

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #07
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR XX 5 DAY

EDF Required? ☐ Yes XX No

Report To: Gretchen Hellmann Bill To: SAME

Company: Cambria Environmental Technology, Inc.

5900 Hollis Street, Suite A

Emeryville, CA 94608 E-mail:ghellmann@cambria-env.com

Tele: 510 420-3305 Fax: 510 420-9170

Project #: 540-0188-55 Project Name: BORSUK

Project Location: 1432 Harrison Street, Oakland, CA

Sampler Signature:

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	BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
INF	System	11/11/03	6:20P	1	Tb			X							X																
EFF	System		6:25P	1	Tb			X							X																
MID	System		6:23P	1	Tb			X							X																

ICE/t_____
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT_____ CONTAINERS ✓
DECHLORINATED IN LAB_____ PRESERVED IN LAB_____
PRESERVATION VOAS | O&G | METALS | OTHER

Relinquished By:	Date	Time	Received By:
	11/11/03	7:30	SECURED LOCATION
Relinquished By:	Date	Time	Received By:
	11/12/03	910	ULTRA GY ERICARDO
Relinquished By:	Date	Time	Received By:
	11/12/03	1600	

Remarks: Report in ppm(v); Reporting Limit is 10 ppm(v).

Use 20 mL injection volume.

Please FAX results. Email

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188-55; BORSUK	Date Sampled: 12/02/03
		Date Received: 12/03/03
	Client Contact: Gretchen Hellmann	Date Reported: 12/09/03
	Client P.O.:	Date Completed: 12/09/03

WorkOrder: 0312067

December 09, 2003

Dear Gretchen:

Enclosed are:

1). the results of **2** analyzed samples from your **#540-0188-55; BORSUK 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
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #540-0188-55; BORSUK	Date Sampled: 12/02/03
5900 Hollis St, Suite A		Date Received: 12/03/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Extracted: 12/03/03-12/04/03
	Client P.O.:	Date Analyzed: 12/03/03-12/04/03

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0312067

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	2100,a	ND<50	21	53	1.3	72	20	---#
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	103

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	10	1.5	0.15	0.15	0.15	0.15	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 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.

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
http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: A WorkOrder: 0312067

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 9526 Spiked Sample ID: N/A

	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	uL/L	uL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	N/A	60	N/A	N/A	N/A	107	109	1.62	70	130
MTBE	N/A	10	N/A	N/A	N/A	88.8	91.1	2.52	70	130
Benzene	N/A	10	N/A	N/A	N/A	106	109	2.98	70	130
Toluene	N/A	10	N/A	N/A	N/A	102	105	2.28	70	130
Ethylbenzene	N/A	10	N/A	N/A	N/A	107	111	3.68	70	130
Xylenes	N/A	30	N/A	N/A	N/A	100	103	3.28	70	130
%SS:	N/A	100	N/A	N/A	N/A	103	105	2.08	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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0312067

Report to:
Matt Meyers"
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-3394
ProjectNo: #540-0188-55; BORSUK
PO:

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

Requested TAT: 5 days
Date Received: 12/3/03
Date Printed: 12/3/03

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
0312067-001	INF	Air	12/2/03	☐	A														
0312067-002	EFF	Air	12/2/03	☐	A														

Test Legend:

1	G-MBTEX_PPMV	2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

Comments:

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

0312067

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR XXX 5 DAY

EDF Required? ☐ Yes XX No

Report To: Gretchen Hellmann	Bill To: SAME
Company: Cambria Environmental Technology, Inc.	
5900 Hollis Street Suite A	
Emeryville, CA 94608	E-mail:ghellmann@cambria-env.com
Tele: 510 420-3305	Fax: 510 420-9170
Project #: 540-0188-55	Project Name: BORSUK
Project Location: 1432 Harrison Street, Oakland, CA	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 5015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 3080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
INF	System	12/2/05		1	Tb			X							X																
EFF	System	12/2/05		1	Tb			X							X																

Relinquished By	Date	Time	Received By
	12/2/05	4pm	Secured location
	12/3	855	ERICARO ULTRA EX
	12/3	1700	

Remarks: Report in ppm(v); Reporting Limit is 10 ppm(v).

Use 20 mL injection volume.

Please FAX results. email

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

PRESERVATION	VOAS	O&G	METALS	OTHER

CAMBRIA

APPENDIX D

Geotracker Electronic Delivery Confirmations

AB2886 Electronic Delivery

Your EDF file has been succcessfully uploaded!

Confirmation Number: 5700343847
Date/Time of Submittal: 2/4/2004 3:40:23 PM
Facility Global ID: T0600100682
Facility Name: A BACHARACH TR & B BORSUK
Submittal Title: 4th Qtr 2003, GW Analytical Data
Submittal Type: GW Monitoring Report

Logged in as CAMBRIA-EM (AUTH_RP) CONTACT SITE ADMINISTRATOR.

AB2886 Electronic Delivery

Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Title:	**4th Qtr 2003, GW Depth Data for 1432 Harrison St., Oakland**
Submittal Date/Time:	**2/4/2004 3:41:41 PM**
Confirmation Number:	**8728535294**

Back to Main Menu

Logged in as CAMBRIA-EM (AUTH_RP) CONTACT SITE ADMINISTRATOR.