MARK BORSUK
Attorney at Law
(415) 922-4740 / FAX 922-1485 / CELL 264-8364
mark@borsuk.com / www.borsuk.com
1626 Vallejo Street
San Francisco, CA 94123-5116

May 6, 2003

Mr. Thomas Peacock
Supervising HMS, LOP
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335
tpeacock@co.alameda.ca.us

SUBJECT: IQ03 Monitoring/SVE System Progress Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Peacock:

Attached is the IQ03 Groundwater Monitoring/SVE Systems Progress Report for the above site. If you have a question, please contact me.

Sincerely yours,

Mark Borsuk

CAMBRIA

May 2, 2003

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

Re: **Groundwater Monitoring and System Progress Report**
First Quarter 2003
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 for the above-referenced site. Presented in the report are the first quarter 2003 activities and results and the anticipated second quarter 2003 activities. Attached are two additional copies for submittal to the Alameda County Health Care Service Agency (ACHCSA) and the Bay Area Air Quality Management District (BAAQMD) regulatory agencies.

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.
Associate

Attachments: Groundwater Monitoring and System Progress Report, First Quarter 2003

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

FIRST QUARTER 2003

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

May 2, 2003

Prepared for:

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

Prepared by:

Cambria Environmental Technology, Inc.
6262 Hollis Street
Emeryville, California 94608

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

Gretchen M. Hellmann
Project Engineer

Ron Scheele, R.G.
Associate

CAMBRIA

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

FIRST QUARTER 2003

1432 Harrison Street
Oakland, California
Cambria Project #540-0188-038

May 2, 2003

INTRODUCTION

On behalf of Mr. Mark Borsuk, Cambria Environmental Technology, Inc. (Cambria) has prepared this groundwater monitoring and system progress report for the above-referenced site (see Figure 1). Presented in this report are the first quarter 2003 groundwater monitoring and remediation activities and the anticipated second quarter 2003 activities.

FIRST QUARTER 2003 ACTIVITIES AND RESULTS

Monitoring Activities

Field Activities: On January 23, 2003, Cambria conducted quarterly monitoring activities. Cambria gauged and inspected for separate-phase hydrocarbons (SPH) in wells MW-1 through MW-6 (see Figure 1). Groundwater samples were collected from wells MW-1, MW-2, MW-4, MW-5, and MW-6. Wells MW-1, MW-2, MW-4, and MW-5 are sampled quarterly and wells MW-3 and MW-6 are sampled on an annual basis, occurring during the first quarter sampling event. Field Data Sheets are presented as Appendix A. Groundwater elevations are shown on Figure 1 and Table 1. The groundwater monitoring results have been submitted to the State's Geotracker Database. The electronic delivery confirmations are presented in Appendix D.

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. Groundwater samples from wells MW-1 and MW-4 were also analyzed by EPA Method 8260. The laboratory analytical report for the first quarter 2003 is included as Appendix B. Hydrocarbon concentrations are shown on Figure 1 and Table 1. Analytical results have been submitted to the State's Geotracker Database and electronic delivery confirmations are presented in Appendix D.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during Cambria's January 23, 2003 site visit, groundwater generally flows beneath the site toward the northeast at a gradient of 0.01 feet/foot (Figure 1). A slight mounding of the groundwater table occurs near well MW-1 and may be related air sparging activities in the immediate vicinity. See Appendix D for the electronic delivery confirmations of groundwater monitoring data.

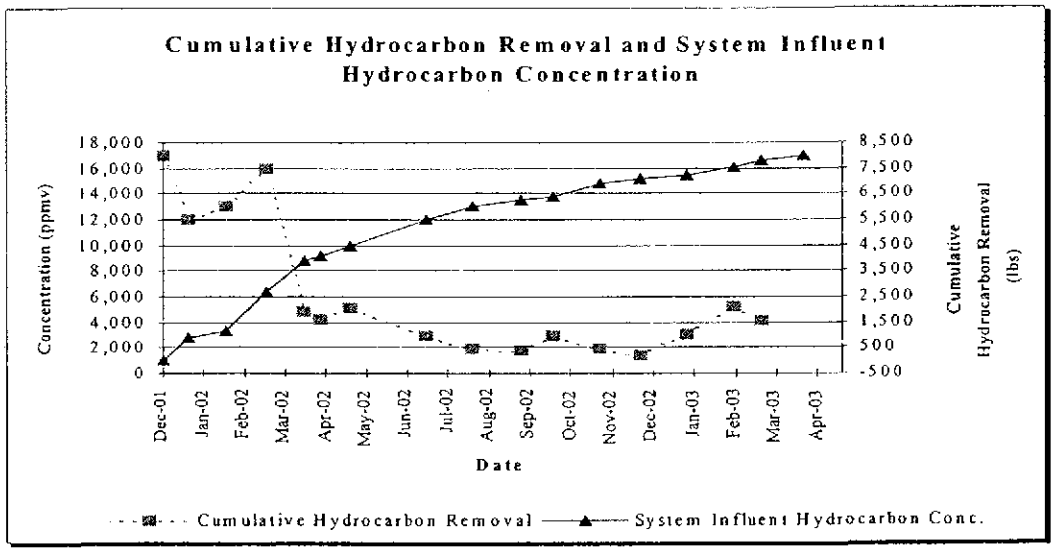
Hydrocarbon Distribution in Groundwater: Hydrocarbon concentrations have decreased or have remained at similar levels relative to previous quarters. The maximum TPHg concentration was detected in well MW-1 at 130,000 micrograms per liter (µg/L). The maximum benzene concentration was detected in well MW-4 at 18,000 µg/L. MTBE was not detected in any of the wells.

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 operations. 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.

SVE System Operations and Maintenance Activities: During the first quarter, Cambria performed system operation and maintenance (O&M) on the SVE system approximately twice 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). 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 January 8, February 12, and March 4, 2003. Vapor sample lab results indicated that the catalytic oxidizer was achieving proper destruction efficiency and was operating within permit requirements. Table 2 summarizes soil vapor extraction system operations and analytical results. The analytical laboratory reports from system vapor sampling are included as Attachment C.

SVE System Performance: The SVE system operated continuously throughout the first quarter. Influent vapor concentrations ranged from 3,100 to 5,200 parts per million volume (ppmv) and were higher than the previous quarter likely due to air sparging activities (see Table 2). Air flow rates decreased during the quarter likely due to seasonal rains and a higher water table. Hydrocarbon removal rates ranged from approximately 7.3 to 12.6 pounds per day and fluctuated during the quarter. Overall, influent vapor concentrations remained elevated and hydrocarbon removal rates continued to exhibit an increasing trend. To date, an approximate total of 8,018 pounds of hydrocarbons have been destroyed by soil vapor extraction activities (see graph below and Table 2).



AS System Performance: Air sparging (AS) operations were performed throughout the first quarter. The AS system is setup to cycle on and off every 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. Air pressures ranged from 4 to 10 pounds per square inch (psi) and injection flow rates ranged from 0.5 to 3 cubic feet per minute (cfm). Air flow rates were maintained at or below 1 cfm in well AS-3 to minimize the potential for SPH accumulation in well MW-1.

ANTICIPATED SECOND QUARTER 2003 ACTIVITIES

Groundwater Sampling: Cambria will gauge all wells, check all wells for SPH, and collect groundwater samples from wells MW-1, MW-2, MW-4, and MW-5. As per the annual sampling schedule, wells MW-3 and MW-6 will be sampled again during the first quarter 2004. Groundwater samples will be analyzed for TPHg by Modified EPA Method 8015 and BTEX and MTBE by EPA Method 8021B. MTBE detected in samples from wells MW-1, MW-4, and MW-5 will be confirmed

by EPA Method 8260. Groundwater monitoring and sampling results will be submitted to the State's Geotracker Database.

Remediation System: Cambria will continue to perform operation and maintenance of the SVE/AS system twice per month during the second quarter of 2003. Optimization activities may include vacuum and flow adjustments to soil vapor extraction wells and pressure and flow adjustments to air sparging wells as hydrocarbon concentrations change in the individual wells. System influent and effluent samples will be collected on a monthly basis along with Horiba gas analyzer readings from the individual wells. System operation records will be kept for a period of two years for possible future BAAQMD inspection.

Cambria will evaluate the performance of the remediation system and combine the results in a quarterly Groundwater Monitoring and System Progress Report. Included in the report will be tables summarizing the concentration, flow, and vacuum of system and individual wells, along with the analytical results.

APPENDIXES

Figure 1 - Groundwater Elevation and Analytical Summary
Figure 2 - Soil Vapor Extraction/Air Sparging System

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 Quarterly Groundwater Sampling
Appendix C - Analytical Results for SVE System Operation
Appendix D - Electronic Delivery Confirmation

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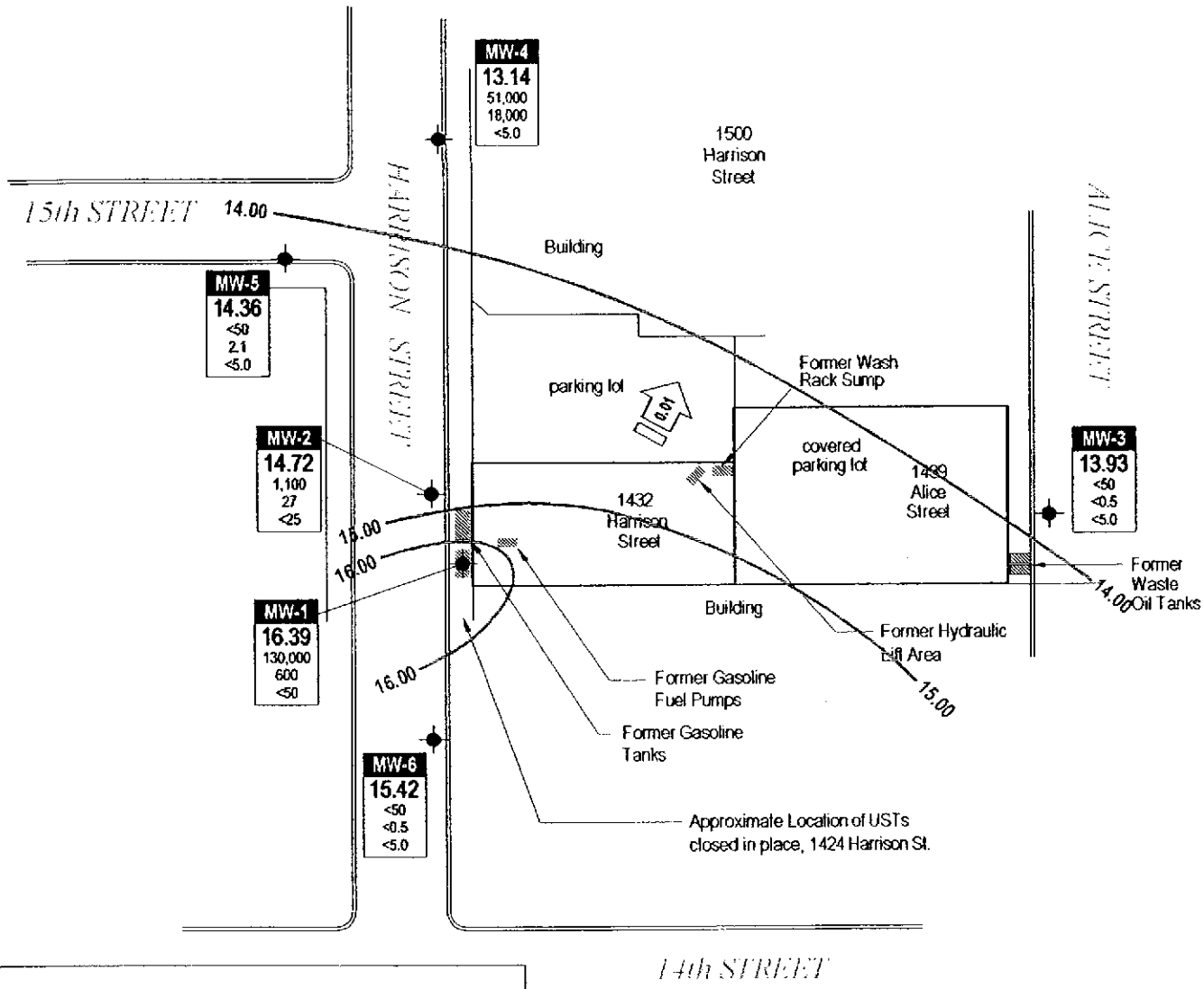

EXPLANATION

- Groundwater monitoring well
- 14.00 — Groundwater elevation contour, in feet above mean sea level (msl)
- 0.004 — Groundwater flow direction and gradient
- Well ID — Well designation
- ELEV / TPHg / Benzene / MTBE — Groundwater elevation, in feet above mean sea level (msl); Hydrocarbons in groundwater, in micrograms per liter (µg/L)

N

0 50 100

Scale (ft)

FIGURE **1**

1432 Harrison Street

Oakland, California

CAMBRIA

Groundwater Elevation and Analytical Summary

January 23, 2003

Borsuk Properties

1432 Harrison Street

Oakland, California

MW-2

meter / p

HARRISON STREET

Soil Vapor Extraction/ Air Sparge System (As-Built)

15' telep

Electrical
(208V-3-phase 200 a

MW-1

Pipi

VES

CAMBRIA

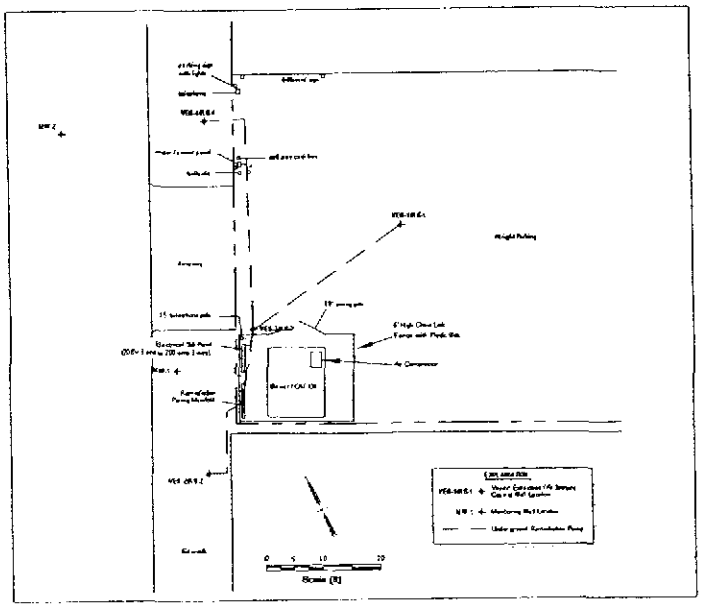

FIGURE 2

02/14/03

CAMBRIA

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

Well ID	Date	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (ft)		(ft)	(ft)	(ft)	←		(µg/L)			→	
MW-1	8/1/94	--	--	--	170,000	35,000	51,000	2,400	13,000	--	--
	12/21/94	34.95	19.53	15.42	180,000	41,000	64,000	3,100	100,000	--	--
	3/13/95	34.95	18.66	16.29	150,000	31,000	45,000	2,500	17,000	--	--
	6/27/95	34.95	18.20	16.75	71,000	17,000	18,000	1,600	7,700	--	--
	7/7/95	34.95	18.35	16.60	71,000	17,000	18,000	1,600	7,700	--	--
	9/28/95	34.95	18.20	16.75	110,000	27,000	34,000	1,700	14,000	--	--
	12/20/95	34.95	19.96	14.99	120,000	33,000	43,000	2,300	15,000	--	--
	3/26/96	34.95	19.27	15.68	140,000	29,000	36,000	1,900	13,000	<200*	d
	6/20/96	34.95	18.64	16.31	110,000	30,000	38,000	2,200	13,000	<200*	--
	9/26/96	34.95	19.35	15.60	170,000	28,000	40,000	2,200	15,000	ND**	--
	10/28/96	34.95	19.58	15.37	--	--	--	--	--	--	--
	12/12/96	34.95	19.68	15.27	110,000	36,000	47,000	2,500	16,000	ND*	--
	3/31/97	34.95	18.80	16.15	160,000	24,000	39,000	1,900	13,000	ND*	--
	6/27/97	34.95	19.26	15.69	130,000	25,000	36,000	2,000	14,000	ND*	--
	9/9/97	34.95	19.70	15.25	99,000	22,000	27,000	1,600	13,000	270*	--
	12/18/97	34.95	19.25	15.70	160,000	30,000	44,000	2,200	15,000	ND***	--
	3/12/98	34.95	17.52	17.43	190,000	20,000	49,000	2,500	18,000	ND***	--
	6/22/98	34.95	18.63	16.32	90,000	19,000	40,000	2,100	16,000	--	--
	9/18/98	34.95	18.60	16.35	190,000	29,000	48,000	2,400	17,000	--	--
	12/23/98	34.95	19.18	15.77	140,000	24,000	44,000	2,000	8,200	--	--
	3/29/99	34.95	18.52	16.43	181,000	22,200	40,100	1,844	12,200	--	--
	6/23/99	34.95	18.60	16.35	80,000	20,000	33,000	1,600	11,000	--	--
	9/24/99	34.95	19.05	15.90	117,000	15,100	20,700	1,550	11,800	--	--
	12/23/99	34.95	19.95	15.00	186,000	25,900	39,000	1,990	12,400	--	--
	3/21/00	34.95	18.48	16.47	210,000	35,000	42,000	2,200	13,000	<3,000	a
	7/3/00	34.95	18.95	16.00	200,000	33,000	46,000	2,200	15,000	<200*	a
	9/7/00	34.95	19.45	15.50	Free Product present (Sheen). No sample taken.						
	12/5/00	34.95	19.90	15.05	220,000	42,000	57,000	2,700	17,000	<200	a
	3/6/01	34.95	18.20	16.75	180,000	27,000	39,000	2,000	13,000	<1200 (<20)	a,l
	6/8/01	34.95	20.14	14.81	170,000	28,000	40,000	1,900	13,000	<200	a
	8/27/01	34.95	21.19	13.76	130,000	24,000	33,000	1,600	11,000	<350	a
	10/25/01	34.95	21.74	13.21	160,000	22,000	28,000	1,500	10,000	<350	a
	3/1/02	34.95	21.39	13.85x	Free Product present (thickness of 0.41ft). No sample taken.						--
	6/10/02	34.95	22.30	12.66x	210,000	30,000	51,000	3,100	22,000	<1,000*	a
	9/3/02	34.96	21.40	13.56	2,500,000	31,000	170,000	29,000	170,000	2,500,000	a
	12/22/02	34.96	20.50	14.46	89,000	2,600	9,300	530	28,000	<1,700	a,m
	1/23/03	**34.96**	**18.57**	**16.39**	**130,000**	**600**	**1,600**	**<100**	**41,000**	**<50*** **	**a,b,l**

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

Well ID	Date	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (ft)		(ft)	(ft)	(ft)	←		(µg/L)			→	
MW-2	8/1/94	--	--	--	130,000	28,000	35,000	3,000	12,000	--	--
	12/21/94	35.18	19.91	15.27	200	140,000	200,000	3,500	22,000	--	--
	3/13/95	35.18	19.15	16.03	500	9,200	23,000	7,000	36,000	--	--
	6/27/95	35.18	18.74	16.44	120,000	23,000	30,000	2,700	13,000	--	--
	7/7/95	35.18	18.80	16.38	120,000	23,000	30,000	2,700	13,000	--	--
	9/28/95	35.18	19.30	15.88	110,000	23,000	29,000	2,500	11,000	--	--
	12/20/95	35.18	20.24	14.94	83,000	980	1,800	2,200	10,000	--	--
	3/26/96	35.18	19.69	15.49	150,000	23,000	32,000	2,800	12,000	<200*	d
	6/20/96	35.18	19.20	15.98	94,000	15,000	23,000	2,400	12,000	<200*	--
	9/26/96	35.18	19.80	15.38	150,000	20,000	29,000	2,800	12,000	ND**	--
	10/28/96	35.18	20.18	15.00	--	--	--	--	--	--	--
	12/12/96	35.18	20.17	15.01	58,000	3,100	11,000	1,700	8,100	220*	--
	3/31/97	35.18	19.67	15.51	38,000	6,000	7,900	690	3,300	ND*	--
	6/27/97	35.18	19.68	15.50	62,000	13,000	16,000	1,300	6,000	ND*	--
	9/9/97	35.18	20.20	14.98	81,000	16,000	18,000	1,800	8,600	ND***	--
	12/18/97	35.18	19.80	15.38	110,000	18,000	26,000	2,200	9,500	ND***	--
	3/12/98	35.18	18.07	17.11	120,000	16,000	26,000	2,200	9,400	ND***	--
	6/22/98	35.18	18.29	16.89	38,000	9,800	9,500	1,500	6,000	--	--
	9/18/98	35.18	19.09	16.09	68,000	12,000	16,000	1,400	5,900	--	--
	12/23/98	35.18	19.67	15.51	180,000	16,000	22,000	2,200	8,300	--	--
	3/29/99	35.18	18.97	16.21	16,600	1,380	1,920	373	1,840	--	--
	6/23/99	35.18	18.25	16.93	41,000	10,000	9,400	1,100	5,000	--	--
	9/24/99	35.18	19.60	15.58	40,600	4,880	3,490	1,090	4,560	--	--
	12/23/99	35.18	20.21	14.97	61,900	6,710	9,320	1,150	5,360	--	--
	3/21/00	35.18	18.93	16.25	98,000	14,000	21,000	1,600	6,900	<1600	a
	7/3/00	35.18	19.38	15.80	140,000	18,000	33,000	2,600	11,000	<200*	a
	9/7/00	35.18	19.83	15.35	110,000	17,000	21,000	2,200	9,700	<100***	a,l
	12/5/00	35.18	20.30	14.88	130,000	19,000	28,000	2,500	11,000	<200	a
	3/6/01	35.18	19.57	15.61	32,000	3,400	3,400	580	2,500	<200	a
	6/8/01	35.18	20.59	14.59	72,000	9,400	9,200	1,300	5,800	<200	a
	8/27/01	35.18	21.79	13.39	110,000	17,000	28,000	2,600	11,000	<950	a
	10/25/01	35.18	22.05	13.13	110,000	15,000	18,000	2,000	8,700	<350	a
	3/1/02	35.18	21.80	13.38	3,100	370	180	62	330	<5.0*	a
	6/10/02	35.18	22.83	12.35	7,800	2,000	1,100	76	570	<100*	a
	9/3/02	35.21	22.03	13.18	21,000	2,400	2,900	320	1,400	<500	a
	12/22/02	35.21	22.70	12.51	630	48	56	19	82	<5.0	a
	1/23/03	**35.21**	**20.49**	**14.72**	**1,100**	**27**	**32**	**19**	**150**	**<25**	**a**

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

Well ID	Date	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (ft)		(ft)	(ft)	(ft)	←		(µg/L)			→	
MW-3	8/1/94	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
	12/21/94	33.97	18.82	15.15	<50	<0.5	<0.5	<0.5	<0.5	--	e
	3/13/95	33.97	17.86	16.11	<50	<0.5	<0.5	<0.5	<0.5	--	f,g
	7/7/95	33.97	18.25	15.72	--	--	--	--	--	--	h
	9/28/95	33.97	18.00	15.97	--	--	--	--	--	--	--
	12/20/95	33.97	18.74	15.23	--	--	--	--	--	--	--
	3/26/96	33.97	18.25	15.72	--	--	--	--	--	--	--
	6/20/96	33.97	18.35	15.62	--	--	--	--	--	--	--
	9/26/96	33.97	19.12	14.85	--	--	--	--	--	--	--
	10/28/96	33.97	19.11	14.86	--	--	--	--	--	--	--
	12/12/96	33.97	18.61	15.36	--	--	--	--	--	--	--
	3/31/97	33.97	18.35	15.62	--	--	--	--	--	--	--
	6/27/97	33.97	18.81	15.16	--	--	--	--	--	--	--
	9/9/97	33.97	19.18	14.79	--	--	--	--	--	--	--
	12/18/97	33.97	18.64	15.33	--	--	--	--	--	--	--
	3/12/98	33.97	17.56	16.41	--	--	--	--	--	--	--
	6/22/98	33.97	18.64	15.33	--	--	--	--	--	--	--
	9/18/98	33.97	18.33	15.64	--	--	--	--	--	--	--
	12/23/98	33.97	18.60	15.37	--	--	--	--	--	--	--
	3/29/99	33.97	17.85	16.12	--	--	--	--	--	--	--
	6/23/99	33.97	18.67	15.30	--	--	--	--	--	--	--
	9/24/99	33.97	18.64	15.33	--	--	--	--	--	--	--
	12/23/99	33.97	19.32	14.65	--	--	--	--	--	--	--
	3/21/00	33.97	17.89	16.08	--	--	--	--	--	--	--
	7/3/00	33.97	18.40	15.57	--	--	--	--	--	--	--
	9/7/00	33.97	18.75	15.22	--	--	--	--	--	--	--
	12/5/00	33.97	19.03	14.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/01	33.97	18.12	15.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/01	33.97	20.02	13.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/27/01	33.97	21.09	12.88	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	10/25/01	33.97	21.29	12.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/1/02	33.97	21.14	12.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/10/02	33.97	21.99	11.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/02	34.01	21.17	12.84	--	--	--	--	--	--	--
	12/22/02	34.01	21.94	12.07	--	--	--	--	--	--	--
	1/23/03	**34.01**	**20.08**	**13.93**	**<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	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (ft)		(ft)	(ft)	(ft)	←		(µg/L)			→	
MW-4	10/28/96	33.75	19.32	14.43	10,000	3,900	420	400	360	<200*	n
	12/12/96	33.75	19.42	14.33	11,000	4,200	410	420	260	32*	--
	3/31/97	33.75	18.67	15.08	ND	ND	ND	ND	ND	ND*	--
	6/27/97	33.75	19.08	14.67	160	49	1.2	ND	5.9	ND*	--
	9/9/97	33.75	19.33	14.42	7,400	5,000	410	230	470	33*	--
	12/18/97	33.75	19.17	14.58	710	170	8.0	ND	39	ND***	--
	3/12/98	33.75	17.68	16.07	1,300	410	21	ND	57	ND***	--
	6/22/98	33.75	17.63	16.12	ND	ND	ND	ND	ND	--	--
	9/18/98	33.75	18.58	15.17	ND	42	1.6	ND	4.8	--	--
	12/23/98	33.75	19.01	14.74	1,900	1,000	76	50	120	--	--
	3/29/99	33.75	18.35	15.40	ND	ND	ND	ND	ND	--	--
	6/23/99	33.75	17.58	16.17	ND	ND	ND	ND	ND	--	--
	9/24/99	33.75	19.05	14.70	9,150	3,270	131	34	537	--	--
	12/23/99	33.75	19.41	14.34	12,200	5,360	275	424	592	--	--
	3/21/00	33.75	18.42	15.33	45,000	16,000	1,100	1,400	1,900	1400* (<35)***	a,l
	7/3/00	33.75	18.82	14.93	33,000	10,000	720	840	1,800	<200*	a
	9/7/00	33.75	19.21	14.54	26,000	8,800	800	740	1,500	<50***	a,c,l
	12/5/00	33.75	19.60	14.15	41,000	11,000	840	930	1,900	<200	a
	3/6/01	33.75	18.24	15.51	1,100	400	5.7	<0.5	20	<5.0	a
	6/8/01	33.75	20.91	12.84	92	19	<0.5	<0.5	1	<5.0	a
	8/27/01	33.75	21.63	12.12	49,000	17,000	1700	1,700	3,200	<260	a
	10/25/01	33.75	21.70	12.05	57,000	16,000	1,500	1,600	2,600	<300	a
	3/1/02	33.75	21.53	12.22	400	140	2.3	<0.5	12	<5.0*	a
	6/10/02	33.75	22.23	11.52	<50	2.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/02	33.75	21.85	11.90	31,000	9,700	300	650	1,100	<1,000	a
	12/22/02	33.75	22.39	11.36	35,000	13,000	310	1,100	1,800	<1,500	a
	1/23/03	**33.75**	**20.61**	**13.14**	**51,000**	**18,000**	**430**	**1,500**	**2,200**	**<5.0*** **	**a,l**

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

Well ID	Date	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (ft)		(ft)	(ft)	(ft)	←		(µg/L)			→	
MW-5	10/28/96	34.63	19.88	11.73	90	4.0	0.6	<0.50	<0.50	16*	n
	12/12/96	34.63	20.09	14.54	230	5.6	0.9	ND	0.9	3.6*	--
	3/31/97	34.63	19.24	15.39	90	3.1	ND	ND	ND	ND*	--
	6/27/97	34.63	19.16	15.47	ND	ND	ND	ND	ND	ND*	--
	9/9/97	34.63	19.93	14.70	ND	ND	ND	ND	ND	ND*	--
	12/18/97	34.63	19.77	14.86	ND	ND	ND	ND	ND	ND***	--
	3/12/98	34.63	19.77	14.86	79	2.3	ND	0.8	ND	ND*	--
	6/22/98	34.63	18.08	16.55	ND	ND	ND	ND	ND	--	--
	9/18/98	34.63	19.12	15.51	ND	ND	ND	ND	ND	--	--
	12/23/98	34.63	19.60	15.03	ND	0.8	0.9	ND	ND	--	--
	3/29/99	34.63	18.88	15.75	ND	ND	ND	ND	ND	--	--
	6/23/99	34.63	18.05	16.58	ND	ND	ND	ND	ND	--	--
	9/24/99	34.63	19.61	15.02	ND	ND	ND	ND	ND	--	--
	12/23/99	34.63	20.01	14.62	ND	ND	ND	ND	ND	--	--
	3/21/00	34.63	19.05	15.58	140	<0.5	<0.5	<0.5	<0.5	<5.0	k
	7/3/00	34.63	19.40	15.23	85	8.1	3.1	1.6	7.8	<5.0*	a
	9/7/00	34.63	19.62	15.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	12/5/00	34.63	20.25	14.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/01	34.63	19.07	15.56	91	5.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/01	34.63	20.77	13.86	290	22.0	0.8	<0.5	<0.5	<5.0	a
	8/27/01	34.63	21.33	13.30	660	24.0	2.2	1.3	4.0	<25	a
	10/25/01	34.63	21.62	13.01	55	3.5	<0.5	<0.5	<0.5	<5.0	a
	3/1/02	34.63	21.49	13.14	200	1.9	0.69	<0.5	<0.5	<5.0*	a
	6/10/02	34.63	22.15	12.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/02	34.63	21.50	13.13	60	1.9	<0.5	<0.5	0.77	<5.0	a
	12/22/02	34.63	22.19	12.44	82	0.57	<0.5	0.68	<0.5	<5.0	a
	1/23/03	**34.63**	**20.27**	**14.36**	**<50**	**2.1**	**<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	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (ft)		(ft)	(ft)	(ft)	←		(µg/L)			→	
MW-6	10/28/96	35.89	20.02	12.87	<50	<0.50	<0.50	<0.50	<0.50	<2.0*	n
	12/12/96	35.89	20.18	15.71	ND	ND	ND	ND	ND	ND*	--
	3/31/97	35.89	19.81	16.08	--	--	--	--	--	--	--
	6/27/97	35.89	19.76	16.13	--	--	--	--	--	--	--
	9/9/97	35.89	20.06	15.83	ND	ND	ND	ND	ND	ND*	--
	12/18/97	35.89	19.90	15.99	ND	ND	ND	ND	ND	--	--
	3/12/98	35.89	18.00	17.89	ND	ND	ND	ND	ND	ND*	--
	6/22/98	35.89	18.43	17.46	ND	ND	ND	ND	ND	--	--
	9/18/98	35.89	19.10	16.79	ND	ND	ND	ND	ND	--	--
	12/23/98	35.89	19.61	16.28	ND	ND	ND	ND	ND	--	--
	3/29/99	35.89	18.92	16.97	ND	ND	ND	ND	ND	--	--
	6/23/99	35.89	18.41	17.48	ND	ND	ND	ND	ND	--	--
	9/24/99	35.89	19.61	16.28	ND	ND	ND	ND	ND	--	--
	12/23/99	35.89	20.30	15.59	ND	ND	ND	ND	ND	--	--
	3/21/00	35.89	18.97	16.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/3/00	35.89	19.46	16.43	59	5.1	2.3	1.1	5.3	<5.0*	a
	9/7/00	35.89	19.95	15.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	12/5/00	35.89	20.50	15.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/01	35.89	19.54	16.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/01	35.89	20.92	14.97	<50	<0.5	<0.5	<0.5	<0.5	<5.1	--
	8/27/01	35.89	21.37	14.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	10/25/01	35.89	21.59	14.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/1/02	35.89	21.33	14.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/10/02	35.89	21.97	13.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/02	35.89	21.55	14.34	--	--	--	--	--	--	--
	12/22/02	35.89	22.25	13.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	1/23/03	**35.89**	**20.47**	**15.42**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	--
Trip Blank	3/21/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	9/7/00	--	--	--	<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	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (ft)		(ft)	(ft)	(ft)	←			(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)

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) (scfm)	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	--[3]	0
1/7/02	443.8	100%		--	12,000	1017	105	1,400	<10	<0.15	47.16	<0.337	<0.005	--[3]	901
2/4/02	576.2	20%		--	13,000	916	150	1,100	<10	<0.15	52.94	<0.481	<0.007	--[3]	1161
3/5/02	1268.2	99%		--	16,000	1020	135	1,000	<10	<0.15	43.31	<0.433	<0.006	--[3]	2687
4/2/02	1939.9	100%		--	4,800	715	114	390	<10	<0.15	14.26	<0.366	<0.005	--[3]	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	0.08	<0.001	99.5	5495
8/5/02	4838.8	100%	80	11.6	1,900	667	*	*	<10	<0.15	7.10	0.04	<0.001	--[3]	6027
9/10/02	5700.9	100%	80	10.5	1,800	609	*	*	<10	<0.15	6.08	0.03	<0.000	--[3]	6282
10/2/02	6229.7	100%	81	14.0	2,900	801	*	*	<10	<0.15	13.04	0.04	<0.001	--[3]	6416
11/6/02	7073.8	100%	82	12.1	1,900	848	*	*	<10	<0.15	7.40	0.04	<0.001	--[3]	6875
12/5/02	7771.5	100%	90	8.4	1,400	840	*	*	<10	<0.15	3.78	0.03	<0.000	--[3]	7090
1/8/03	8580.5	99%	91	9.5	3,100	813	*	*	<10	<0.15	9.42	0.03	<0.000	--[3]	7217

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) (scfm)	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)
2/12/2003	9424.0	100%	93	7.6	5,200	801	*	*	<10	<0.15	12.61	0.02	<0.000	--[3]	7548
3/4/2003	9902.8	100%	90	5.5	4,100	798	*	*	<10	<0.15	7.27	0.02	<0.000	--[3]	7800
4/3/2003	10623.3	100%	--	--	--	--	*	*	--	--	--	--	--	--	8018

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

Benz = Benzene

HC Conc. = Hydrocarbon Concentrations

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.

I:\SB-2004\Oakl-188-Borsuk\O&M\SVE System Table

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-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	H2O	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
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

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	1/24/2003	95	4	9630	open
	3/4/2003	90	2.5	5790	open
	3/17/2003	93	--	2020	open
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
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

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	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

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

H2O = unable to get reading due to the presence of water

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APPENDIX A

Groundwater Monitoring Field Data Sheets

CAMBRIA

WELL DEPTH MEASUREMENTS

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-1	6:18		18.57		25.05	
MW-2	6:07		20.49		25.40	
MW-3	6:00		20.08		23.90	
MW-4	6:10		20.61		24.50	
MW-5	6:13		20.27		28.34	
MW-6	6:05		20.47		28.00	

Project Name: Borsuk

Project Number: 540-0188

Measured By: [signature]

Date: 1-23-03

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: RAS	Well ID: MW-1
Project Number: 540-0188	Date: 1-23-03	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 4" pvc Technician(s): SG
Initial Depth to Water: 18.57	Total Well Depth: 25.05	Water Column Height: 6.93
Volume/ft: 0.65	1 Casing Volume: 4.50	3 Casing Volumes: 13.51
Purging Device: 4" pvc bailer	Did Well Dewater?: no	Total Gallons Purged: 13
Start Purge Time: 7:00	Stop Purge Time: 7:14	Total Time: 14 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
7:05	5	18.9	7.10	629	
7:10	10	18.8	7.13	840	
7:15	13	18.8	7.17	972	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-	1-23-03	7:20	3 VOA	HCl	TPHg BTEX MTBE	8015/8020 8260

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: RAS	Well ID: MW-2
Project Number: 540-0188	Date: 1-23-03	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 20.49	Total Well Depth: 25.40	Water Column Height: 4.91
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: 7:30	Stop Purge Time: 7:44	Total Time: 14mins

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
7:35	1	18.9	7.18	374	
7:40	1.5	18.9	7.22	720	
7:45	2	18.9	7.25	740	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-2	1-23-03	7:50	3voa	HCl	TPHg BTEX MTBE	8015/8020 8260

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: RAS	Well ID: MW-3
Project Number: 540-0188	Date: 1-23-03	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 20.08	Total Well Depth: 23.90	Water Column Height: 3.82
Volume/ft: 0.16	1 Casing Volume: 0.61	3 Casing Volumes: 1.83
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 2
Start Purge Time: 6:30	Stop Purge Time: 6:44	Total Time: 14 mins

1 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
6:35	1	18.3	7.22	3339	
6:40	1.5	18.5	7.29	3339	
6:45	2	18.6	7.28	3339	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-3	1-23-03	6:50	3voa	HCl	TPHg BTEX MTBE	8015/8020 8260

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: RAS	Well ID: MW-4
Project Number: 540-0188	Date: 1-23-03	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SH
Initial Depth to Water: 20.61	Total Well Depth: 24.50	Water Column Height: 3.89
Volume/ft: 0.16	1 Casing Volume: 0.62	3 Casing Volumes: 1.86
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 2
Start Purge Time: 8:10	Stop Purge Time: 8:24	Total Time: 14 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
8:15	1	18.9	7.14	1143	
8:20	1.5	18.9	7.18	1015	
8:25	2	19.2	7.20	970	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	1-23-03	8:30	3 VOA	HCl	TPHg BTEX MTBE	8015/8020 8260

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

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: RAS	Well ID: MW-5
Project Number: 540-0188	Date: 1-23-03	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SH
Initial Depth to Water: 20.27	Total Well Depth: 28.34	Water Column Height: 8.07
Volume/ft: 0.16	1 Casing Volume: 1.29	3 Casing Volumes: 3.87
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 4
Start Purge Time: 8:45	Stop Purge Time: 8:59	Total Time: 14mins

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
8:50	1.5	19.3	7.08	975	
8:55	3	19.1	7.11	620	
9:00	4	18.9	7.11	742	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-5	1-23-03	9:05	3VOA	HCl	TPHg BTEX MTBE	8015/8020 8260

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: RAS	Well ID: MW-6
Project Number: 540-0188	Date: 1-23-03	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2 0 pvc
		Technician(s): SG
Initial Depth to Water: 20.47	Total Well Depth: 28.00	Water Column Height: 7.53
Volume/ft: 0.16	1 Casing Volume: 1.20	3 Casing Volumes: 3.60
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 4
Start Purge Time: 4:15	Stop Purge Time: 4:29	Total Time: 14 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
4:20	1.5	19.6	7.28	629	
4:25	3	19.2	7.13	764	
4:30	4	19.0	7.15	792	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-6	1-23-03	4:35	3voa	HCl	TPHg BTEX MTBE	8015/8020 8260

CAMBRIA

APPENDIX B

Analytical Results for Quarterly 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; Borsuk	Date Sampled: 01/23/03
6262 Hollis St.		Date Received: 01/24/03
Emeryville, CA 94608	Client Contact: Ron Scheele	Date Reported: 01/29/03
	Client P.O.:	Date Completed: 01/29/03

WorkOrder: 0301313

January 29, 2003

Dear Ron:

Enclosed are:

1). the results of **6** analyzed samples from your **#540-0188; 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; Borsuk	Date Sampled: 01/23/03
6262 Hollis St.		Date Received: 01/24/03
Emeryville, CA 94608	Client Contact: Ron Scheele	Date Extracted: 01/25/03-01/27/03
	Client P.O.:	Date Analyzed: 01/25/03-01/27/03

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0301313

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	130,000,a,h	ND<1000	600	1600	ND<100	41,000	200	108
002A	MW-2	W	1100,a	ND<25	27	32	19	150	1	94.4
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	106
004A	MW-4	W	51,000,a	ND<2500	18,000	430	1500	2200	200	106
005A	MW-5	W	ND	ND	2.1	ND	ND	ND	1	116
006A	MW-6	W	ND	ND	ND	ND	ND	ND	1	117
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 are reported in µg/L, soil and sludge samples in mg/kg, wipe samples in µg/wipe, and TCLP extracts in µg/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

Cambria Env. Technology	Client Project ID: #540-0188; Borsuk	Date Sampled: 01/23/03
6262 Hollis St.		Date Received: 01/24/03
Emeryville, CA 94608	Client Contact: Ron Scheele	Date Extracted: 01/25/03-01/27/03
	Client P.O.:	Date Analyzed: 01/25/03-01/27/03

Methyl tert-Butyl Ether*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 0301313

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS
001B	MW-1	W	ND<50,j	100	103
004B	MW-4	W	ND<5.0,j	10	106

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

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: 0301313

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 5715 Spiked Sample ID: 0301312-001A

Compound	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(gas)	ND	60	107	110	2.63	111	111	0.303	80	120
MTBE	ND	10	106	103	2.61	94.7	96	1.33	80	120
Benzene	ND	10	111	112	1.37	110	110	0.375	80	120
Toluene	ND	10	107	109	1.81	110	109	0.430	80	120
Ethylbenzene	ND	10	104	107	2.21	108	107	0.733	80	120
Xylenes	ND	30	100	107	6.45	110	110	0	80	120
%SS:	97.2	100	94	94.8	0.897	94.5	95.8	1.39	80	120

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.

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.

% 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.

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 SW8260B

Matrix: W WorkOrder: 0301313

EPA Method: SW8260B Extraction: SW5030B BatchID: 5701 Spiked Sample ID: 0301288-004C

Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Methyl-t-butyl ether (MTBE)	ND	10	95.3	102	6.58	81.4	76.9	5.78	70	130
%SS1:	106	100	97.3	98.3	1.00	110	105	4.84	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.

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.

% 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.

0301313

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 ☒ 5 DAY

EDF Required? ☒ Yes ☐ No

Report To: Ron Scheels Bill To: Cambria Env. Tech

Company: Cambria Environmental Technology Inc.

6262 Hollis Street

Emeryville, CA 94608 E-mail:

Tele: 510-450-1983 Fax: 510-450-8295

Project #: 540-0188 Project Name: Borsuk

Project Location: 1432 Harrison St. Oakland, Ca

Sampler Signature: J. Dell

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 + 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: MTBE by 8260	Other: confirm all MTBE by 8260	Other	Other	Comments
MW-1		1-23-03	7:20	3	VOAs	X					X	X			X															X	.		Results in lowest possible detection limit
MW-2		1-23-03	7:50	3	VOAs	X					X	X			X																X		
MW-3		1-23-03	6:50	3	VOAs	X					X	X			X																	X		
MW-4		1-23-03	8:30	3	VOAs	X					X	X			X															X				
MW-5		1-23-03	9:05	3	VOAs	X					X	X			X																	X		
MW-6		1-23-03	4:35	3	VOAs	X					X	X			X																	X		

Relinquished By:	Date:	Time:	Received By:
J. Dell	1-24-03	5:00	secure location
	1/24/03	10:30am	Harold 240
Harold 240	1/24	1420	

Remarks:

	VOAs	O&G	METALS	OTHER
PRESERVATION	✓			
APPROPRIATE CONTAINERS	✓			

GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0301313

Client:
Cambria Env. Technology
6262 Hollis St.
Emeryville, CA 94608

TEL: (510) 450-1983
FAX: (510) 450-8295
ProjectNo: #540-0188; Borsuk
PO:

Date Received: 1/24/03
Date Printed: 1/24/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests <>	8021B/8015	SW8260B
0301313-001	MW-1	Water	1/23/03 7:20:00 AM		A	A	B
0301313-002	MW-2	Water	1/23/03 7:50:00 AM			A	
0301313-003	MW-3	Water	1/23/03 6:50:00 AM			A	
0301313-004	MW-4	Water	1/23/03 8:30:00 AM			A	B
0301313-005	MW-5	Water	1/23/03 9:05:00 AM			A	
0301313-006	MW-6	Water	1/23/03 4:35:00 PM			A	

Prepared by: Maria 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.

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	Client Project ID: #540-0188; Borsuk	Date Sampled: 01/08/03
6262 Hollis St.		Date Received: 01/10/03
Emeryville, CA 94608	Client Contact: Ron Scheele	Date Reported: 01/17/03
	Client P.O.:	Date Completed: 01/17/03

WorkOrder: 0301111

January 17, 2003

Dear Ron:

Enclosed are:

1). the results of 2 analyzed samples from your **#540-0188; 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; Borsuk	Date Sampled: 01/08/03
6262 Hollis St.		Date Received: 01/10/03
Emeryville, CA 94608	Client Contact: Ron Scheele	Date Extracted: 01/10/03
	Client P.O.:	Date Analyzed: 01/10/03

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0301111

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	3100,a	ND<100	22	22	ND<10	18	40	---#
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	---#

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	0.25	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

*water and vapor samples are reported in µg/L, soil and sludge samples in mg/kg, wipe samples in µg/wipe, and TCLP extracts in µg/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

Edward Hamilton, Lab Director

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: 0301111

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 5600 Spiked Sample ID: 0301107-001A

Compound	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(gas)	ND	60	104	107	3.73	100	96.7	3.33	80	120
MTBE	ND	10	103	92.7	10.6	90.5	94.3	4.09	80	120
Benzene	0.5772	10	100	98	2.02	97.1	103	5.99	80	120
Toluene	ND	10	101	101	0.0441	99.7	106	5.92	80	120
Ethylbenzene	0.93	10	91.7	93.3	1.57	95.4	98.4	3.17	80	120
Xylenes	ND	30	96.7	96.7	0	99.3	103	3.95	80	120
%SS:	115	100	102	103	1.16	91.6	97.9	6.61	80	120

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.

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.

% 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.

CEJE 0301111

McCAMPBELL ANALYTICAL INC.

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

CHAIN OF CUSTODY RECORD

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

Report To: Ron Scheele Bill To: SAME
Company: Cambria Environmental Technology
6262 Hollis Street
Emeryville, CA 94608
Tele: (510) 450-1983 Fax: (510) 450-8295
Project #: 540-0188 [redacted] Project Name: BORSUK
Project Location: 1432 HARRISON ST OAKLAND CA
Sampler Signature: [signature]

Analysis Request columns: 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

SAMPLE ID	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
INF	Oakland	1/8/03	10:30	1	Bag			X							X
[redacted]															
EFF	↓	↓	↓	1	Bag			X							X

VOAS | O&G | METALS | OTHER
PRESERVATION
CONTAINERS
PRESERVED IN LAB

Relinquished By:	Date:	Time:	Received By:
[signature]	1/8/03	7pm	Secured Locker
[signature] 0108/03 1245	01/10/03	1235	[signature] 196
[arrow]	1/10	2:40	[signature] ✓

Remarks: Report in ppmv; 10 ppmv limit
20 ml injection volume
PLEASE FAX RESULTS

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0301111

Client:
Cambria Env. Technology
6262 Hollis St.
Emeryville, CA 94608

TEL: (510) 450-1983
FAX: (510) 450-8295
ProjectNo: #540-0188; Borsuk
PO:

Date Received: 1/10/03
Date Printed: 1/10/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests: 8021B/8015
0301111-001	INF	Air	1/8/03 10:30:00 AM		A
0301111-002	EFF	Air	1/8/03 10:30:00 AM		A

Prepared by: Elisa 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.

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: 02/12/03
5900 Hollis Street, Suite A		Date Received: 02/12/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Reported: 02/19/03
	Client P.O.:	Date Completed: 02/19/03

WorkOrder: 0302159

February 19, 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: 02/12/03
5900 Hollis Street, Suite A		Date Received: 02/12/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Extracted: 02/13/03
	Client P.O.:	Date Analyzed: 02/13/03

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0302159

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	5200,a	ND<50	39	40	1.6	37	4	---#
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	99.6

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	0.25	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

*water and vapor samples are reported in µg/L, soil and sludge samples in mg/kg, wipe samples in µg/wipe, and TCLP extracts in µg/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: 0302159

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 5892 Spiked Sample ID: N/A

Compound	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(gas)	N/A	60	N/A	N/A	N/A	108	117	7.26	70	130
MTBE	N/A	10	N/A	N/A	N/A	91.3	117	24.7	70	130
Benzene	N/A	10	N/A	N/A	N/A	103	103	0.696	70	130
Toluene	N/A	10	N/A	N/A	N/A	96.5	95.9	0.687	70	130
Ethylbenzene	N/A	10	N/A	N/A	N/A	104	103	0.269	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	98.5	94.8	3.87	80	120

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.

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.

% 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.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0302159

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

TEL: (510) 450-1983
FAX: (510) 450-8295
ProjectNo: #540-0188-55; Borsuk
PO:

Date Received: 2/12/03
Date Printed: 2/12/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests 8021B/8015
0302159-001	INF	Air	2/12/03 4:00:00 PM		A
0302159-002	EFF	Air	2/12/03 4:00:00 PM		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.

ctl

0602159

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 STE-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: 432 HARRISON ST. 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	BORSUK	2/12/03	4pm	1	Brg			X							X																
EFF	BORSUK	2/12/03	4pm	1	Brg			X							X																

ICE/ GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB

PRESERVATION APPROPRIATE CONTAINERS PRESERVED IN LAB

VOAS | O&G | METALS | OTHER

Relinquished By:	Date:	Time:	Received By:
	2/12/03	5:30	
Relinquished By:	Date:	Time:	Received By:
	2/12/03	0:25	
Relinquished By:	Date:	Time:	Received By:

Remarks:

REPORT IN ppmv; 10 ppmv LIMIT

20 ml INJECTION VOLUME

FAX 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	Client Project ID: #540-0188-55; Borsuk	Date Sampled: 03/04/03
5900 Hollis St, Suite A		Date Received: 03/05/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Reported: 03/10/03
	Client P.O.:	Date Completed: 03/10/03

WorkOrder: 0303047

March 10, 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: 03/04/03
5900 Hollis St, Suite A		Date Received: 03/05/03
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Extracted: 03/05/03
	Client P.O.:	Date Analyzed: 03/05/03

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0303047

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	4100,a	ND<50	17	22	ND<10	28	40	98.1
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	99.9

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	0.25	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

*water and vapor samples are reported in µg/L, soil and sludge samples in mg/kg, wipe samples in µg/wipe, and TCLP extracts in µg/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: 0303047

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 6069 Spiked Sample ID: 0303041-004A

Compound	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(gas)	ND	60	115	105	9.86	99.2	109	9.08	80	120
MTBE	ND	10	81.2	91	11.4	103	87.5	15.9	80	120
Benzene	ND	10	115	116	1.30	88.9	93	4.49	80	120
Toluene	ND	10	110	111	0.320	82.5	88.3	6.76	80	120
Ethylbenzene	ND	10	115	119	3.76	89.6	95.3	6.20	80	120
Xylenes	ND	30	120	120	0	87.3	92.7	5.93	80	120
%SS:	110	100	111	112	0.625	101	97.4	3.37	80	120

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.

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.

% 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.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0303047

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

TEL: (510) 450-1983
FAX: (510) 450-8295
ProjectNo: #540-0188-55; Borsuk
PO:

Date Received: 3/5/03
Date Printed: 3/5/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests 8021B/8015
0303047-001	INF	Air	3/4/03 1:30:00 PM		A
0303047-002	EFF	Air	3/4/03 1:30:00 PM		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.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0303047

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

TEL: (510) 450-1983
FAX: (510) 450-8295
ProjectNo: #540-0188-55; Borsuk
PO:

Date Received: 3/5/03
Date Printed: 3/5/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests 8021B/8015
0303047-001	INF	Air	3/4/03 1:30:00 PM		A
0303047-002	EFF	Air	3/4/03 1:30:00 PM		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.

cetc

030347

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 ☒ 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:

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	3/4/03	1:30	1	Tb			X							X																
EFF	System	3/4/03	1:30	1	Tb			X							X																

ICE/* _____ PRESERVATION VOAS | O&G | METALS | OTHER
GOOD CONDITION _____ APPROPRIATE
HEAD SPACE ABSENT _____ CONTAINERS _____
DECHLORINATED IN LAB _____ PRESERVED IN LAB _____

Relinquished By:	Date:	Time:	Received By:
	3/4/03	6pm	Secured Location
	3/5/03	1225	X233
X233	3/5/03	1415	

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

Use 20 mL injection volume.

Please FAX results.

cetc

030347

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 ☒ 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:

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	3/4/03	1:30	1	Tb			X							X																
EFF	System	3/4/03	1:30	1	Tb			X							X																

ICE/* _____ PRESERVATION VOAS | O&G | METALS | OTHER
GOOD CONDITION _____ APPROPRIATE
HEAD SPACE ABSENT _____ CONTAINERS _____
DECHLORINATED IN LAB _____ PRESERVED IN LAB _____

Relinquished By:	Date:	Time:	Received By:
	3/4/03	6pm	Secured Location
	3/5/03	1225	X233
X233	3/5/03	1415	

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

Use 20 mL injection volume.

Please FAX results.

CAMBRIA

APPENDIX D

Electronic Delivery Confirmation

AB2886 Electronic Delivery

Your EDF file has been successfully uploaded!

Confirmation Number: 4544445335
Date/Time of Submittal: 5/2/2003 2:53:20 PM
Facility Global ID: T0600100682
Facility Name: A BACHARACH TR & B BORSUK
Submittal Title: 1QM03
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:	**1QM03 geo_well**
Submittal Date/Time:	**5/2/2003 2:54:50 PM**
Confirmation Number:	**7855789005**

Back to Main Menu

Logged in as CAMBRIA-EM (AUTH_RP)

CONTACT SITE ADMINISTRATOR