R0266

CAMBRIA

April 13, 2005

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

Re: **Groundwater Monitoring and System Progress Report**
First Quarter 2005
Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

Dear Mr. Borsuk:

As requested, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring and System Progress Report – First Quarter 2005*. Presented in the report are the first quarter 2005 activities and results, and the anticipated second quarter 2005 activities. Attached are two additional copies for submittal to Mr. Don Hwang with 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) 420-3361.

Sincerely,
Cambria Environmental Technology, Inc.

Subbarao Nagulapaty
Project Engineer

Attachments: *Groundwater Monitoring and System Progress Report - First Quarter 2005*
(2 copies)

Cambria Environmental Technology, Inc.

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GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

FIRST QUARTER 2005

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

April 13, 2005

Prepared for:

Mr. Mark Borsuk
1626 Vallejo Street
San Francisco, California 94123-5116

Prepared by:

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

Written by:

for Rowan Fennell
Senior Staff Scientist

Ron Scheele, P.G.
Senior Geologist

CAMBRIA

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

FIRST QUARTER 2005

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

April 13, 2005

INTRODUCTION

On behalf of Mr. Mark Borsuk, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring and System Progress Report – First Quarter 2005* for the above-referenced site (see Figure 1). Presented in this report are the first quarter 2005 groundwater monitoring and remediation activities, and the anticipated second quarter 2005 activities.

FIRST QUARTER 2005 ACTIVITIES AND RESULTS

Monitoring Activities

Field Activities: On March 3, 2005, Cambria coordinated with Muskan Environmental Sampling (MES) to conduct quarterly monitoring activities. MES gauged and inspected for separate-phase hydrocarbons (SPH) in all monitoring wells. SPH was not detected in any of the wells and groundwater samples were collected from wells MW-1 through MW-6. Groundwater monitoring field data sheets are presented as Appendix B. The groundwater monitoring data has been submitted to the GeoTracker database. See Appendix E 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 methyl tert-butyl ether (MTBE) by EPA Method 8021B. Select groundwater samples were also analyzed for MTBE by EPA Method 8260. All analyses were performed by McCampbell Analytical, Inc. of Pacheco, California. The laboratory analytical report is included as Appendix C. Hydrocarbon concentrations are shown on Figure 1 and Table 1. The analytical data was submitted to the GeoTracker database. See Appendix E for the GeoTracker electronic delivery confirmation.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during the March 3, 2005 site visit, groundwater beneath the site generally flows toward the north at a gradient of

0.003 feet/foot. The overall gradient is consistent with previous quarters, including the groundwater mounding around well MW-1, which is induced by soil vapor extraction (SVE) operations. Depth to water and groundwater elevation data is presented in Figure 1 and Table 1.

Hydrocarbon Distribution in Groundwater: Hydrocarbon concentrations were detected in four of the six sampled wells this quarter. TPHg concentrations ranged from 320 micrograms per liter (µg/L) to 18,000 µg/L with the highest concentration detected in well MW-4. Benzene concentrations ranged from 5.2 µg/L to 6,400 µg/L, with the highest concentration detected in well MW-4. MTBE was not detected above laboratory reporting limits in any of the wells. Concentrations in all wells continue to exhibit a stable or decreasing trend in TPHg and BTEX concentrations over the past year. Please refer to Figure 1 and Table 1 for dissolved hydrocarbon concentrations, and Appendix A for benzene concentration and depth to water versus time trend graphs for wells MW-1 through MW-6. Please note that the unshaded symbols on the graphs represent results below laboratory detection limits.

Corrective Action Activities

System Design: The soil vapor extraction/air sparge (SVE/AS) remediation system consists of a positive-displacement blower belt-driven by a 10-horsepower electric motor, an oil-less AS blower directly driven by a 5-horsepower electric motor, control panel, 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) and one former monitoring well (MW-1) are individually connected to a central manifold in the remediation system enclosure. In June 2004 the remediation system was modified and the catalytic oxidizer treatment system was replaced with two 2,000-pound vapor-phase carbon vessels arranged in series. See Figure 2 for the location of remediation enclosure and wells.

SVE/AS System Operation and Maintenance Activities: During the first 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 system influent sample location (see Tables 2 and 3). During site visits, system operation parameters were recorded in specialized field forms for future system optimization and agency inspection.

System influent vapor samples were collected and submitted for laboratory analysis on January 10, February 2, and March 7, 2005. Table 2 summarizes SVE system operations and analytical results. The analytical laboratory reports from system vapor sampling are included as Appendix D.

SVE System Performance: The SVE system was operated throughout the first quarter. The system was temporarily shutdown on February 2, 2005 to facilitate carbon changeout activities and was automatically shutdown on January 14, 2005 due to an air pressure alarm. The SVE system was operational for an average of 93% from January 10, 2005 to April 4, 2005. To maximize extraction flowrates, all extraction wells remained open for the duration of the quarter. System monitoring events were performed throughout the quarter to record hydrocarbon concentrations in individual wells for system optimization.

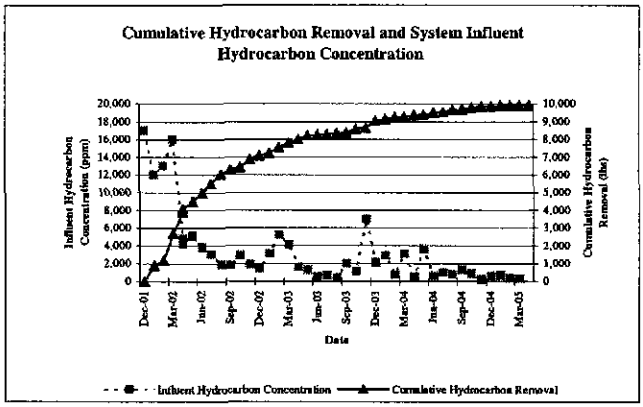
Influent hydrocarbon vapor concentrations ranged from 270 to 660 parts per million by volume (ppmv) and vapor flow rates ranged from 3.4 to 4.0 standard cubic feet per minute (see Table 2). Hydrocarbon removal rates ranged from approximately 0.35 to 0.84 pounds per day. The fluctuation in hydrocarbon removal rates is primarily due to equipment adjustments related to performance optimization activities. As of April 4, 2005, approximately 9,933 pounds of hydrocarbons have been extracted and destroyed by soil vapor extraction activities (see Table 2).

AS System Performance: Air sparging operations were reactivated on December 30, 2004. Ambient air was injected into air sparge wells (AS-1 through AS-4) at flowrates of 2 standard cubic feet per minute and at pressures ranging from 2 to 11 pounds per square inch. SVE flowrates and hydrocarbon concentrations were monitored to evaluate effectiveness of air sparge activities.

SYSTEM SHUTDOWN

As shown in the adjacent graph, hydrocarbon removal rates have reached an asymptotic level. The hydrocarbon mass removal rate has decreased from approximately 50 lbs/day to less than 1 lb/day.

Based on the low influent vapor concentrations and hydrocarbon mass removal rates, continued operation of the SVE/AS system is no longer cost effective or warranted.



ANTICIPATED SECOND QUARTER 2005 ACTIVITIES

Monitoring Activities

Cambria will coordinate with MES to perform quarterly monitoring activities. MES will gauge all monitoring wells; check wells for SPH; and collect groundwater samples from wells not containing SPH. As per the sampling schedule, only wells MW-1, MW-2, MW-4, and MW-5 will be sampled during the second quarter 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 - Second Quarter 2005.*

Corrective Action Activities

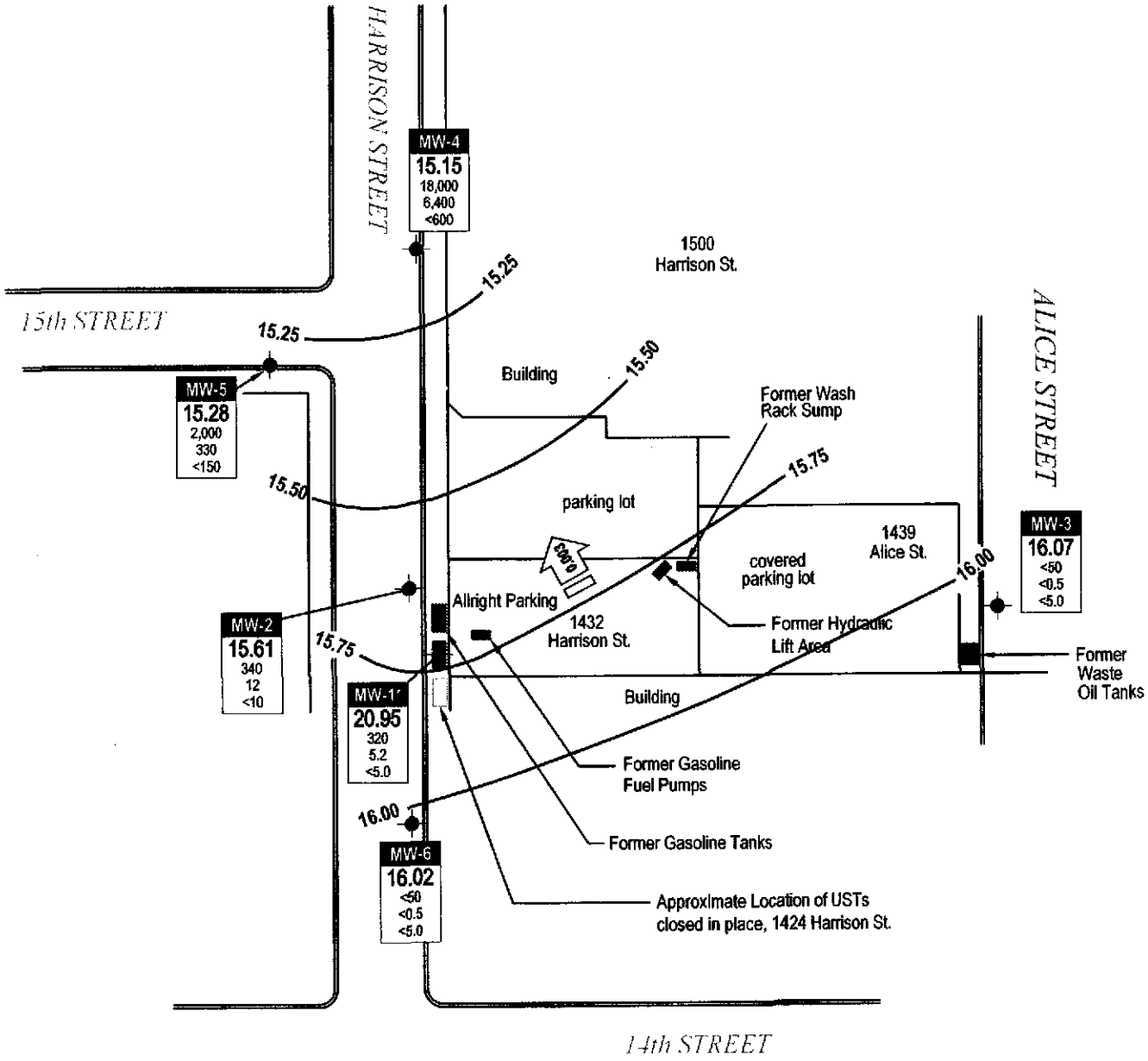
Cambria plans to shutdown and remove the existing SVE/AS system at the end of April 2005. Cambria proposes to conduct a risk-based corrective action (RBCA) analysis to evaluate the site as a low-risk case closure candidate. Cambria will proceed with the proposed RBCA analysis, upon receiving written agency approval or after 60 days following the submittal of this *Groundwater monitoring and System Progress Report – First Quarter 2005*, unless directed otherwise by the Alameda County Health Care Services Agency.

ATTACHMENTS

Figure 1 - Groundwater Elevation and Hydrocarbon Concentration Map
Figure 2 - Soil Vapor Extraction/Air Sparge 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 – Benzene Concentration and Depth to Water versus Time Trend Graphs
Appendix B – Groundwater Monitoring Field Data Sheets
Appendix C – Analytical Results for Groundwater Sampling
Appendix D – Analytical Results for SVE System Operation
Appendix E – GeoTracker Electronic Delivery Confirmations



EXPLANATION

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

* = Groundwater mounding exists at well MW-1 due to soil vapor extraction on the well. Data not used in groundwater elevation contours.

N

0 50 100

Scale (ft)

FIGURE 1

H:\BORBUKT\FIGURES\2005\1Q05.DWG

Allright Parking

1432 Harrison Street
Oakland, California

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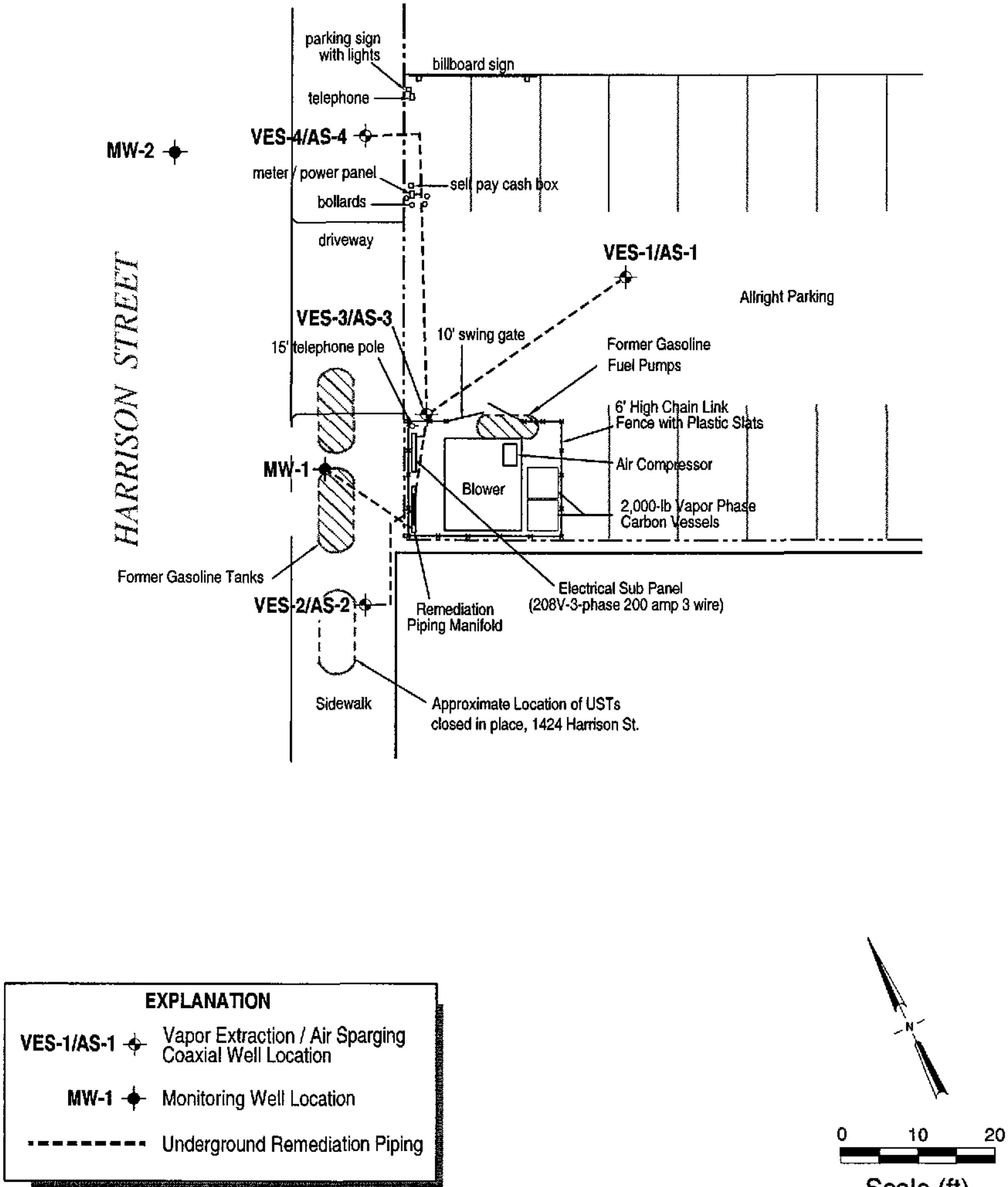
Groundwater Elevation and Hydrocarbon Concentration Map

March 3, 2005



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

FIGURE **2**

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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 - Allright Parking, 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)			→	
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	13.84[x]	--	--	--	--	--	--	--
	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[x]	--	--	--	--	--	--	--
	7/23/2003	19.42	0.07	15.59[x]	--	--	--	--	--	--	--
35.37#	12/22/2003	17.09	0.01	18.29[x]	--	--	--	--	--	--	--
	3/10/2004	13.82	--	21.55	22,000	190	250	<10	5,100	<100	a,c
	6/16/2004	14.75	--	20.62	2,700	23	160	13	520	<25	a
	9/27/2004	18.02	--	17.35	27,000	580	2,000	56	6,800	<10***	a,m
	12/22/2004	11.25	--	24.12	250	3.5	18	<0.5	47	<0.5***	a,m
	3/3/2005	**14.42**	**--**	**20.95**	**320**	**5.2**	**13**	**3.2**	**46**	**<5.0**	**a**

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 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)			→	
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	--
	3/10/2004	19.33	--	15.88	3,100	460	290	38	240	<50	a
	6/16/2004	19.90	--	15.31	9,100	1,600	1,200	220	830	<400	a
	9/27/2004	22.08	--	13.13	14,000	2,800	490	340	1,600	<350	a
	12/22/2004	21.74	--	13.47	1,100	300	28	22	71	<15	a
	3/3/2005	**19.60**	**--**	**15.61**	**340**	**12**	**4.4**	**9.1**	**28**	**<10**	**a**

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 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	--	--
(annual sampling)	3/13/1995	17.86	--	16.11	<50	<0.5	<0.5	<0.5	<0.5	--	e
	7/7/1995	18.25	--	15.72	--	--	--	--	--	--	f,g
	9/28/1995	18.00	--	15.97	--	--	--	--	--	--	h
	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*	--
	9/3/2002	21.17	--	12.84	--	--	--	--	--	--	--
34.01	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	--	--	--	--	--	--	--
	3/10/2004	18.22	--	15.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/16/2004	18.82	--	15.19	--	--	--	--	--	--	--
	9/27/2004	21.03	--	12.98	--	--	--	--	--	--	--
	12/22/2004	20.69	--	13.32	--	--	--	--	--	--	--
	3/3/2005	**17.94**	--	**16.07**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	--

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 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-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
	3/10/2004	18.81	--	14.94	14,000	4,800	150	320	530	<400	a
	6/16/2004	19.32	--	14.43	2,800	1,100	24	17	100	<50	a
	9/27/2004	21.45	--	12.30	45,000	16,000	260	1,700	2,000	<25***	a
	12/22/2004	21.15	--	12.60	29,000	10,000	160	890	1,200	<5.0***	a,j
	3/3/2005	**18.60**	--	**15.15**	**18,000**	**6,400**	**98**	**500**	**610**	**<600**	**a**
MW-5	10/28/1996	19.88	--	14.75	90	4.0	0.6	<0.50	<0.50	16*	
34.63	12/12/1996	20.09	--	14.54	230	5.6	0.9	ND	0.9	3.6*	n
	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	--	--

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 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	3/29/1999	18.88	--	15.75	ND	ND	ND	ND	ND	--	--
Cont'd	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	--
	7/3/2000	19.40	--	15.23	85	8.1	3.1	1.6	7.8	<5.0*	k
	9/7/2000	19.62	--	15.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	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	--
	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*	a
	9/3/2002	21.50	--	13.13	60	1.9	<0.5	<0.5	0.77	<5.0	--
	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	a
	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	--
	3/10/2004	19.61	--	15.02	990	200	2.9	4.0	20	<70	--
	6/16/2004	20.15	--	14.48	250	42	<0.5	0.88	<0.5	<35	a
	9/27/2004	22.14	--	12.49	1,600	140	4.8	45	18	<110	a
	12/22/2004	21.81	--	12.82	<50	5.3	<0.5	<0.5	0.66	<5.0	--
	3/3/2005	**19.35**	--	**15.28**	**2,000**	**330**	**4.4**	**63**	**39**	**<150**	a
MW-6	10/28/1996	20.02		15.87	<50	<0.50	<0.50	<0.50	<0.50	<2.0*	
35.89	12/12/1996	20.18	--	15.71	ND	ND	ND	ND	ND	ND*	n
(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*	--
	9/7/2000	19.95	--	15.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	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	--

Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 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)			→	
MW-6	8/27/2001	21.37	--	14.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
Cont'd	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	--	--	--	--	--	--	--
	3/10/2004	20.20	--	15.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/16/2004	20.73	--	15.16	--	--	--	--	--	--	--
	9/27/2004	22.88	--	13.01	--	--	--	--	--	--	--
	12/22/2004	22.53	--	13.36	--	--	--	--	--	--	--
	3/3/2005	**19.87**	--	**16.02**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	--
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	--

Abbreviations

TOC = Top of casing elevation

SPH = Separate-phase hydrocarbons

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA method 8015

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

MTBE = Methyl tert-butyl ether * = MTBE by EPA Method 8020

** = MTBE by EPA Method 8240

*** = MTBE by EPA Method 8260

µg/L = micrograms per liter, equivalent to parts per billion

– = Not sampled, not analyzed, or not applicable

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

ND = Not detected above laboratory detection limit

x = Groundwater elevation adjusted for SPH by the relation:

Groundwater Elevation = Well Elevation - Depth to Water + (0.7 x SPH 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 ~2 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. EPA method Modified 8015, no TPHmo was detected.

g = Sample analyzed for Total Petroleum Hydrocarbons as motor oil (TPHmo)

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 ~1 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: Allright Parking, 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)
12/20/2001	13.0	--		--	17,000	825	170	920	<10	<0.15	50.18	<0.545	<0.007	--[3]	0
1/7/2002	443.8	100%		--	12,000	1017	105	1,400	<10	<0.15	47.16	<0.337	<0.005	--[3]	901
2/4/2002	576.2	20%		--	13,000	916	150	1,100	<10	<0.15	52.94	<0.481	<0.007	--[3]	1161
3/5/2002	1268.2	99%		--	16,000	1020	135	1,000	<10	<0.15	43.31	<0.433	<0.006	--[3]	2687
4/2/2002	1939.9	100%		--	4,800	715	114	390	<10	<0.15	14.26	<0.366	<0.005	--[3]	3899
4/15/2002	2253.2	100%	136	18.3	4,200	709	*	*	28	<0.15	24.67	0.16	<0.001	99.3	4086
5/6/2002	2655.2	80%	77	10.1	5,100	735	*	*	14	<0.15	16.58	0.05	<0.000	99.7	4499
6/5/2002	3373.2	100%	80	15.1	3,800	652	*	*	14	<0.15	18.41	0.07	<0.001	99.6	4995
7/2/2002	4024.9	101%	80	16.3	3,000	672	*	*	<15	0.16	15.70	<0.078	<0.001	99.5	5495
8/5/2002	4838.8	100%	80	11.6	1,900	667	*	*	<10	<0.15	7.10	<0.037	<0.001	--[3]	6027
9/10/2002	5700.9	100%	80	10.5	1,800	609	*	*	<10	<0.15	6.08	<0.034	<0.000	--[3]	6282
10/2/2002	6229.7	100%	81	14.0	2,900	801	*	*	<10	<0.15	13.04	<0.045	<0.001	--[3]	6416

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Allright Parking, 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)	System Inlet Temp. (degrees F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc. [1] (ppmv)	Effluent HC Conc. [1] (ppmv)		HC Removal Rate [2] (lbs/day)	Emission Rate [2] (lbs/day)		TPHg Destruction Efficiency [3] (%)	Gasoline Cumulative Removal [4] (lbs)
					TPHg			TPHg	TPHg	Benz	TPHg	TPHg	Benz		
11/6/2002	7073.8	100%	82	12.1	1,900	848	*	*	<10	<0.15	7.40	<0.039	<0.001	--[3]	6875
12/5/2002	7771.5	100%	90	8.4	1,400	840	*	*	<10	<0.15	3.78	<0.027	<0.000	--[3]	7090
1/8/2003	8580.5	99%	91	9.5	3,100	813	*	*	<10	<0.15	9.42	<0.030	<0.000	--[3]	7217
2/12/2003	9424.0	100%	93	7.6	5,200	801	*	*	<10	<0.15	12.61	<0.024	<0.000	--[3]	7548
3/4/2003	9902.8	100%	90	5.5	4,100	798	*	*	<10	<0.15	7.27	<0.018	<0.000	--[3]	7800
4/3/2003	10623.3	100%	115	9.5	1,600	802	*	*	<10	<0.15	4.86	<0.030	<0.000	--[3]	8018
5/15/2003	11629.8	100%	119	6.7	1,300	840	*	*	<10	<0.15	2.80	<0.022	<0.000	--[3]	8222
6/2/2003	12061.5	100%	116	4.4	526	805	*	*	<10	<0.15	0.75	<0.014	<0.000	--[3]	8272
7/2/2003	12779.5	100%	120	9.0	680	836	*	*	<10	<0.15	1.95	<0.029	<0.000	--[3]	8295
8/7/2003	13643.9	100%	117	7.6	370	749	*	*	<10	<0.15	0.90	<0.024	<0.000	--[3]	8365
9/3/2003	14288.9	100%	116	9.7	2,000	737	*	*	<10	<0.15	6.19	<0.031	<0.000	--[3]	8389
10/7/2003	15109.8	100%	119	4.5	1,100	752	*	*	<10	<0.15	1.57	<0.014	<0.000	--[3]	8601

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Allright Parking, 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)
11/11/2003	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	2,900	905	*	*	<10	<0.15	2.97	<0.010	<0.000	--[3]	9135
2/11/2004	18021.0	100%	62	4.2	760	853	*	*	<10	<0.15	1.01	<0.013	<0.000	--[3]	9239
3/24/2004	18861.7	83%	82	5.2	3,100	796	*	*	<10	<0.15	5.16	<0.017	<0.000	--[3]	9275
4/12/2004	19315.8	100%	79	3.9	520	839	*	*	<10	<0.15	0.65	<0.012	<0.000	--[3]	9372
5/17/2004	19945.0	75%	70	3.9	3,600	755	*	*	<25	<0.25	4.49	<0.031	<0.000	99.3	9389
6/10/2004	20512.8	99%	80	10.0	620	792	*	*	<10	<0.15	2.00	<0.032	<0.000	--[3]	9495
7/6/2004	20823.5	50%	70	12.3	990	--	*	*	0**	--	3.92	<0.000	--	--[3]	9521
8/12/2004	21702.2	99%	62	7.4	780	--	*	*	0**	--	1.86	<0.000	--	--[3]	9665
9/16/2004	22024.9	38%	39	9.2	1,300	--	*	*	0**	--	3.85	<0.000	--	--[3]	9690
10/11/2004	22622.5	100%	50	9.8	890	--	*	*	0**	--	2.80	<0.000	--	--[3]	9785

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Allright Parking, 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)
11/4/2004	23185.2	98%	38	4.9	220	--	*	*	0**	--	0.35	<0.000	--	--[3]	9851
12/6/2004	23853.9	87%	45	5.2	610	--	*	*	0**	--	1.03	<0.000	--	--[3]	9861
1/10/2005	24693.0	100%	65	3.9	660	--	*	*	0**	--	0.84	<0.000	--	--[3]	9897
2/2/2005	25071.5	69%	70	3.9	360	--	*	*	0**	--	0.45	<0.000	--	--[3]	9910
3/7/2005	25769.8	100% [a]	71	4.0	270	--	*	*	0**	--	0.35	<0.000	--	--[3]	9923
4/4/2005	26442.1	100%	77	3.4	--	--	*	*	0**	--	--	<0.000	--	--[3]	9933

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

Benz = Benzene

HC Conc. = 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.

** = As per the Bay Area Air Quality Management District's letter dated July 9, 2004 effluent analysis is no longer required. Effluent hydrocarbon concentrations are measure using a field Horiba gas analyzer.

-- = Not available, not measured, or not applicable.

a = Hourmeter reading does not reflect actual run-time due to instrument malfuntion.

Table 3. SVE System Parameters - Allright Parking, 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
	1/7/2004	98	0.9	5,050	open
	1/23/2004	82	0.59	13,100	open
	1/30/2004	81	*	--	open
	2/11/2004	62	2.6	160	open
	3/3/2004	47	1.0	1,200	open
	3/3/2004	150	4.8	589	open
	3/10/2004	146	3.0	233	open
	3/24/2004	74	0.9-2.5	3,950	open
	4/2/2004	81	3.2	225	open
	4/12/2004	78	2.18	415	open
	4/27/2004	75	5.2	2,010	open
	5/6/2004	70	4.0	160	open
	5/17/2004	70	--	120	open
	5/27/2004	70	1.8	75	open
	6/10/2004	80	3.2	180	open
	6/16/2004	84	3.8	63	open
	7/6/2004	70	6.0	410	open
	7/7/2004	72	6.5	360	open
	7/8/2004	74	5.0	300	open
	7/28/2004	34	6.5	115	open
	8/12/2004	21	3.0	270	open
	8/17/2004	40	6.0	535	open
	8/25/2004	40	4.4	360	open
	9/16/2004	22	5.3	1,425	open
	9/27/2004	--	4.5	570	open
	10/11/2004	26	3.9	500	open
	11/1/2004	48	4.6	200	open
	11/4/2004	38	--	160	open
	12/6/2004	42	2.8	215	open
	12/22/2004	50	4.6	30	open
	12/22/2004	70	5.9	62	open
	12/22/2004	90	6.6	93	open
	12/30/2004	--	--	--	**open**
	1/10/2005	**51**	**3.0**	--	**open**
	1/21/2005	**74**	**4.8**	**750**	**open**
	1/27/2005	**70**	**2.7**	**550**	**open**
	2/2/2005	**71**	**2.5**	**560**	**open**
	2/11/2005	**70**	**3.1**	**93**	**open**
	2/24/2005	**71**	**3.1**	**250**	**open**
	3/7/2005	**70**	**2.9**	**280**	**open**
	3/24/2005	**72**	**2.8**	**150**	**open**
	4/4/2005	**77**	**2.4**	**280**	**open**

Table 3. SVE System Parameters - Allright Parking, 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	>10,000	open
	3/5/2002	34	6.3	>10,000	open
	4/2/2002	83	13.5	10,070	open
	4/15/2002	101	28.2	10,070	open
	5/22/2002	80	22.5	9,980	open
	5/27/2002	81	4.5	27,000	open
	6/5/2002	77	22.1	11,110	open
	6/21/2002	81	*	7,810	open
	7/2/2002	82	25	10,400	open
	7/26/2002	81	22.5	5,210	open
	8/5/2002	80	5.5	6,020	open
	9/10/2002	80	5.2	9,180	open
	10/2/2002	80	10.5	11,070	open
	11/6/2002	82	9.0	4,850	open
	12/5/2002	90	8.5	4,000	open
	1/8/2003	92	5.1	2,340	open
	1/8/2003	92	5.1	2,340	open
	1/24/2003	95	4.0	2,350	open
	3/4/2003	90	3.6	1,750	open
	3/17/2003	93	7.5	1,360	open
	4/3/2003	115	4.0	720	open
	4/14/2003	116	--	1,180	open
	5/7/2003	117	3.5	660	open
	5/15/2003	119	6.0	1,950	open
	5/27/2003	117	4.1	1,600	open
	6/13/2003	118	3.9	1,525	open
	6/23/2003	118	--	--	open
	7/2/2003	119	25	1,270	
	7/2/2003	119	25*	1,270	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	2	closed
	10/15/2003	118	23*	1,650	open
	10/21/2003	117	21	1,090	open
	11/17/2003	85	0.7	2,050	open
	12/2/2003	94	0.67	1,550	open
	12/10/2003	92	0.63	5,700	open
	12/23/2003	95	0.8	7,000	open
	1/7/2004	98	0.5	3,750	open
	1/23/2004	82	0.57	12,500	open
	1/30/2004	81	0.5	--	open
	2/11/2004	62	0.25	5,520	open
	3/3/2004	47	0.31	1,515	open
	3/3/2004	150	5.9	5,130	open

Table 3. SVE System Parameters - Allright Parking, 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	3/10/2004	146	0.7	1,867	open
	3/24/2004	74	1.0	4,150	open
	4/2/2004	81	0.9	135	open
	4/12/2004	78	2.5-25*	80	open
	4/27/2004	75	1.8	55	open
	5/6/2004	70	3	2,150	open
	5/17/2004	70	--	1,485	open
	5/27/2004	70	0.9	1,030	open
	6/10/2004	80	*	1,025	open
	6/16/2004	84	1.4	460	open
	7/6/2004	70	*	*	open
	7/7/2004	72	*	*	open
	7/8/2004	74	*	*	open
	7/28/2004	67	*	*	open
	8/12/2004	62	1.5	655	open
	8/17/2004	63	1.25	520	open
	8/25/2004	62	1.0	470	open
	9/16/2004	39	1.3	805	open
	9/27/2004	--	1.7	510	open
	10/11/2004	34	0.9	400	open
	11/1/2004	58	0.5	165	open
	11/4/2004	38	--	150	open
	12/6/2004	42	1.0	130	open
	12/22/2004	51	0.4	315	open
	12/22/2004	72	0.4	650	open
	12/22/2004	89	0.5	1,115	open
	12/30/2004	--	--	--	**open**
	1/10/2005	**51**	**0.0**	--	**open**
	1/21/2005	**74**	**0.2**	**2,720**	**open**
	1/27/2005	**70**	**0.8**	**700**	**open**
	2/2/2005	**71**	**0.5**	**708**	**open**
	2/11/2005	**70**	**0.4**	**225**	**open**
	2/24/2005	**71**	**0.7**	**260**	**open**
	3/7/2005	**70**	**0.7**	**290**	**open**
	3/24/2005	**72**	**0.4**	**120**	**open**
	4/4/2005	**77**	**0.2**	**250**	**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	1,347	open
	5/22/2002	81	26.1	1,888	open
	5/27/2002	81	9.5	4,710	open
	6/5/2002	79	20.7	2,090	open
	6/21/2002	82	47	1,820	open
	7/2/2002	81	28.9	5,210	open
	7/26/2002	81	13.1	1,515	open
	8/5/2002	80	10.5	1,925	open

Table 3. SVE System Parameters - Allright Parking, 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	9/10/2002	80	8.9	1,850	open
	10/2/2002	80	8.5	3,370	open
	11/6/2002	82	9.0	2,180	open
	12/5/2002	90	--	1,870	open
	1/8/2003	92	--	6,210	open
	1/8/2003	92	--	6,210	open
	1/24/2003	95	4.0	9,630	open
	3/4/2003	90	2.5	5,790	open
	3/17/2003	93	--	2,020	open
	4/3/2003	115	--	3,230	open
	4/14/2003	116	--	2,980	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
	7/2/2003	119	9	365	
	6/23/2003	118	--	--	open
	7/2/2003	119	9*	365	open
	7/11/2003	118	5*	--	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	*	1,295	open
	10/2/2003	120	4.0	410	open
	10/7/2003	118	17	1,120	open
	10/15/2003	119	21	1,550	open
	10/21/2003	119	21	1,675	open
	11/17/2003	85	1.9	1,115	open
	12/2/2003	94	2.0*	460	open
	12/10/2003	92	2.0	1,740	open
	12/23/2003	95	1.5	1,510	open
	1/7/2004	98	1.6	600	open
	1/23/2004	82	1.6	90	open
	1/30/2004	81	*	--	open
	2/11/2004	62	2.1*	130	open
	3/3/2004	47	0.87	3,460	open
	3/3/2004	150	6.8	883	open
	3/10/2004	146	*	3,930	open
	3/24/2004	74	1.9	6,800	open
	4/2/2004	81	1.0	3,350	open
	4/12/2004	78	1.5	1,150	open
	4/27/2004	75	2	1,170	open
	5/6/2004	70	3.8	190	open
	5/17/2004	70	--	65	open
	5/27/2004	70	33*	30	open
	6/10/2004	80	*	35	open
	6/16/2004	84	2.7	20	open
	7/6/2004	70	1.5	110	open
	7/7/2004	72	1.3	250	open
	7/8/2004	74	1.1	220	open
	7/28/2004	67	1.4	10	open
	8/12/2004	62	1.9	50	open

Table 3. SVE System Parameters - Allright Parking, 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	8/17/2004	63	2.6	40	open
	8/25/2004	62	1.8	20	open
	9/16/2004	39	2.1	820	open
	9/27/2004	--	1.5	240	open
	10/11/2004	34	1.3	310	open
	11/1/2004	58	1.9	170	open
	11/4/2004	38	--	410	open
	12/6/2004	42	1.4	380	open
	12/22/2004	50	1.6	75	open
	12/22/2004	70	2.0	310	open
	12/22/2004	90	2.5	670	open
	12/30/2004	--	--	--	**open**
	1/10/2005	**51**	**0.7**	--	**open**
	1/21/2005	**74**	**1.7**	**115**	**open**
	1/27/2005	**70**	**1.5**	**360**	**open**
	2/2/2005	**71**	**1.1**	**305**	**open**
	2/11/2005	**70**	**2.2**	**420**	**open**
	2/24/2005	**71**	**1.2**	**410**	**open**
	3/7/2005	**70**	**1.1**	**400**	**open**
	3/24/2005	**72**	**0.9**	**295**	**open**
	4/4/2005	**77**	**1.3**	**205**	**open**
VES-3	12/13/2001	--	--	38,000	open
	12/20/2001	25	7.0	41,500	open
	12/27/2001	48	12	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	4,260	open
	5/22/2002	85	16.5	7,090	open
	5/27/2002	81	6.7	7,010	open
	6/5/2002	85	14.7	5,290	open
	6/21/2002	80	25.5	3,450	open
	7/2/2002	82	32.2	4,820	open
	7/26/2002	81	9.3	3,400	open
	8/5/2002	80	4.5	3,380	open
	9/10/2002	80	7.1	3,150	open
	10/2/2002	80	4.0	2,140	open
	11/6/2002	82	5.5	1,215	open
	12/5/2002	90	4.5	1,015	open
	1/8/2003	92	5.5	3,840	open
	1/8/2003	92	5.5	3,840	open
	1/24/2003	95	3.0	6,040	open
	3/4/2003	90	3.5	3,430	open
	3/17/2003	93	1.3	1,980	open
	4/3/2003	115	3.5	1,900	open
	4/14/2003	116	--	1,950	open
	5/7/2003	117	1.5	1,320	open
	5/15/2003	119	2.6	1,530	open
	5/27/2003	117	1.6	1,250	open
	6/13/2003	118	1.5	1,000	open

Table 3. SVE System Parameters - Allright Parking, 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	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*	3,430	open
	10/2/2003	121	30*	25	closed
	10/7/2003	117	19	225	closed
	10/15/2003	118	23	30	closed
	10/21/2003	118	21	70	closed
	11/17/2003	86	2.0	1,425	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
	1/7/2004	98	0.6	4,810	open
	1/23/2004	82	0.25	3,620	open
	1/30/2004	81	0.7	--	open
	2/11/2004	62	0.3	1,280	open
	3/3/2004	47	0.39	3,320	open
	3/3/2004	150	5.6	1,990	open
	3/10/2004	146	3.7	285	open
	3/24/2004	74	19.7**	40	open
	4/2/2004	81	0.5	1,240	open
	4/12/2004	78	1.85	440	open
	4/27/2004	75	0.9	425	open
	5/6/2004	70	2.1	252	open
	5/17/2004	70	--	410	open
	5/27/2004	70	1.6	220	open
	6/10/2004	80	1.9	2	open
	6/16/2004	84	2.1	15	open
	7/6/2004	70	1.4	20	open
	7/7/2004	72	1.2	25	open
	7/8/2004	74	1.0	50	open
	7/28/2004	67	1.2	120	open
	8/12/2004	62	1.0	175	open
	8/17/2004	63	1.3	105	open
	8/25/2004	62	1.9	92	open
	9/16/2004	39	1.7	375	open
	9/27/2004	--	1.5	410	open
	10/11/2004	34	0.9	390	open
	11/1/2004	58	0.9	150	open
	11/4/2004	38	--	315	open
	12/6/2004	42	1.7	550	open
	12/22/2004	49	0.5	250	open
	12/22/2004	70	0.6	415	open
	12/22/2004	90	0.8	777	open
	12/30/2004	**--**	**--**	**--**	**open**
	1/10/2005	**51**	**0.4**	**--**	**open**
	1/21/2005	**74**	**0.4**	**582**	**open**
	1/27/2005	**70**	**0.5**	**440**	**open**
	2/2/2005	**71**	**0.5**	**510**	**open**

Table 3. SVE System Parameters - Allright Parking, 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	**2/11/2005**	**70**	**0.5**	**260**	**open**
	2/24/2005	**71**	**0.3**	**300**	**open**
	3/7/2005	**70**	**0.4**	**290**	**open**
	3/24/2005	**72**	**0.3**	**210**	**open**
	4/4/2005	**77**	**0.7**	**180**	**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	>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	5,350	open
	5/22/2002	80	21.7	570	open
	5/27/2002	81	6.3	10,460	open
	6/5/2002	80	18	4,490	open
	6/21/2002	81	41.5	2,580	open
	7/2/2002	81	38	9,690	open
	7/26/2002	81	2.3	2,230	open
	8/5/2002	80	4.4	6,160	open
	9/10/2002	80	5.5	2,410	open
	10/2/2002	80	3.5	1,777	open
	11/6/2002	82	4.5	920	open
	12/5/2002	90	7.0	420	open
	1/8/2003	92	4.0	1,805	open
	1/8/2003	92	4.0	1,805	open
	1/24/2003	95	5.0	2,720	open
	3/4/2003	90	4.0	1,390	open
	3/17/2003	93	1.0	1,300	open
	4/3/2003	115	2.3	1,090	open
	4/14/2003	116	--	1,050	open
	5/7/2003	117	1.8	610	open
	5/15/2003	119	2.7	2,100	open
	5/27/2003	117	2.0	1,850	open
	6/13/2003	118	2.0	1,800	open
	6/23/2003	118	--	--	open
	7/2/2003	119	17*	1,550	open
	7/11/2003	118	2.2	--	open
	8/7/2003	117	2.6	1,550	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	2,550	open
	10/7/2003	116	17	15	close
	10/15/2003	117	30	75	closed
	10/21/2003	117	28	50	closed
	11/17/2003	86	3.0	70	closed
	12/10/2003	92	3.0	2,850	open
	12/23/2003	95	0.5	2,300	open
	1/7/2004	98	1.0	46,000	open
	1/23/2004	82	0.65	12,000	open

Table 3. SVE System Parameters - Allright Parking, 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	1/30/2004	81	*	--	open
	2/11/2004	62	0.45	4,770	open
	3/3/2004	47	0.93	7,010	open
	3/3/2004	150	2.2	4,270	open
	3/10/2004	146	1.6	65	open
	3/24/2004	74	0.7	3,500	open
	4/2/2004	81	0.9	120	open
	4/12/2004	78	5.5	170	open
	4/27/2004	75	2.1	60	open
	5/6/2004	70	2.8	1,740	open
	5/17/2004	70	--	1,120	open
	5/27/2004	70	1.1	2,560	open
	6/10/2004	80	*	4,300	open
	6/16/2004	84	1.0	1,840	open
	7/6/2004	70	1.3	3,150	open
	7/7/2004	72	1.0	4,880	open
	7/8/2004	74	1.2	3,550	open
	7/28/2004	67	1.1	1,615	open
	8/12/2004	62	2.2	3,160	open
	8/17/2004	63	1.1	55	open
	8/25/2004	62	1.6	1,310	open
	9/16/2004	39	1.7	2,630	open
	9/27/2004	--	1.6	1,920	open
	10/11/2004	34	1.2	2,220	open
	11/1/2004	58	0.6	870	open
	11/4/2004	38	--	750	open
	12/6/2004	42	0.9	1,250	open
	12/22/2004	49	0.6	50	open
	12/22/2004	70	0.3	185	open
	12/22/2004	89	0.6	310	open
	12/30/2004	**--**	**--**	**--**	**open**
	1/10/2005	**51**	**0.2**	**--**	**open**
	1/21/2005	**74**	**0.9**	**518**	**open**
	1/27/2005	**70**	**0.3**	**530**	**open**
	2/2/2005	**71**	**0.3**	**435**	**open**
	2/11/2005	**70**	**0.5**	**107**	**open**
	2/24/2005	**71**	**0.4**	**220**	**open**
	3/7/2005	**70**	**0.5**	**200**	**open**
	3/24/2005	**72**	**1.4**	**110**	**open**
	4/4/2005	**77**	**0.5**	**215**	**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.

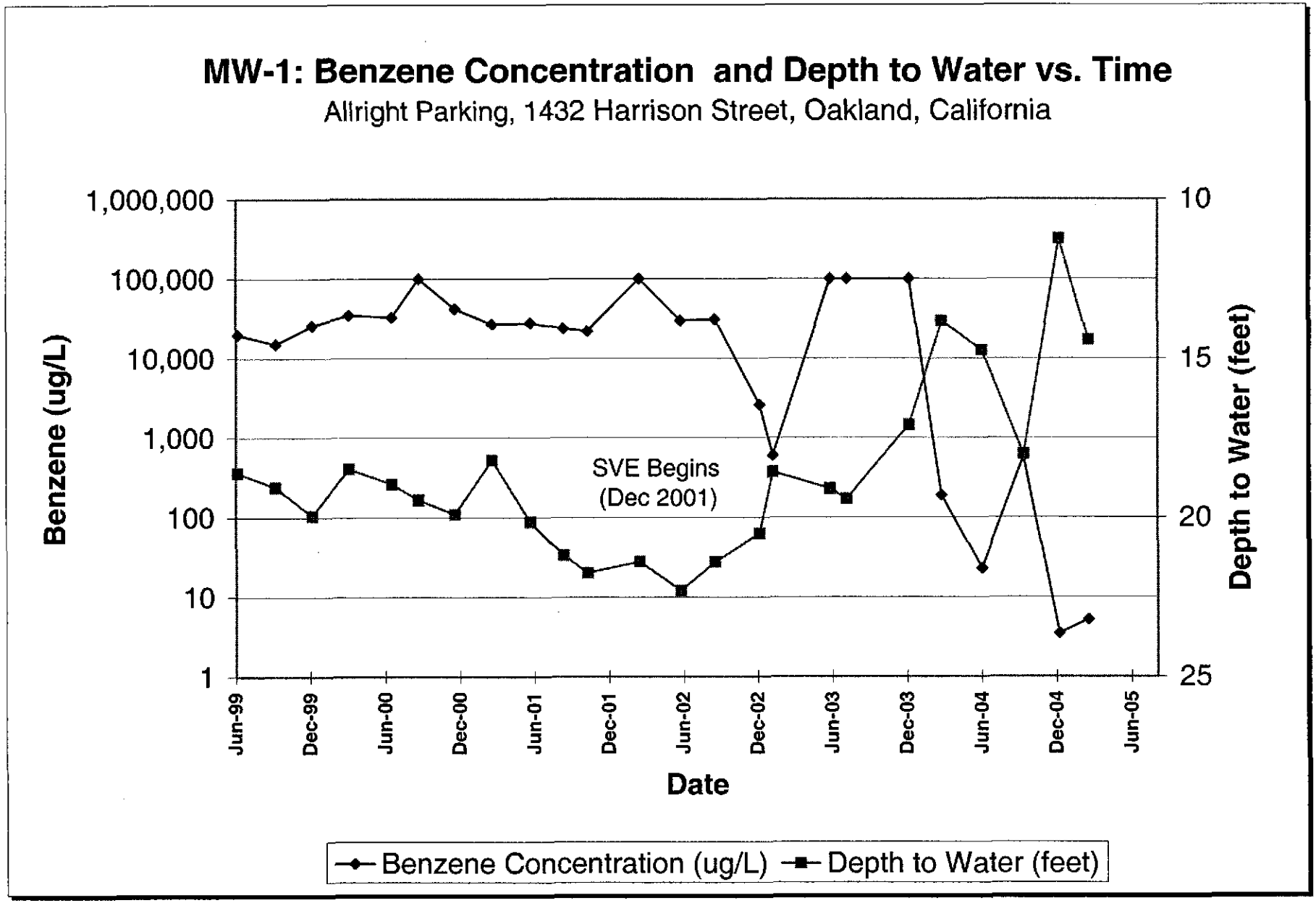
-- = Data not available or not collected

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

** = Well seal cracked, allowing ambient air to short-circuit vapor extraction. Well seal replaced.

APPENDIX A

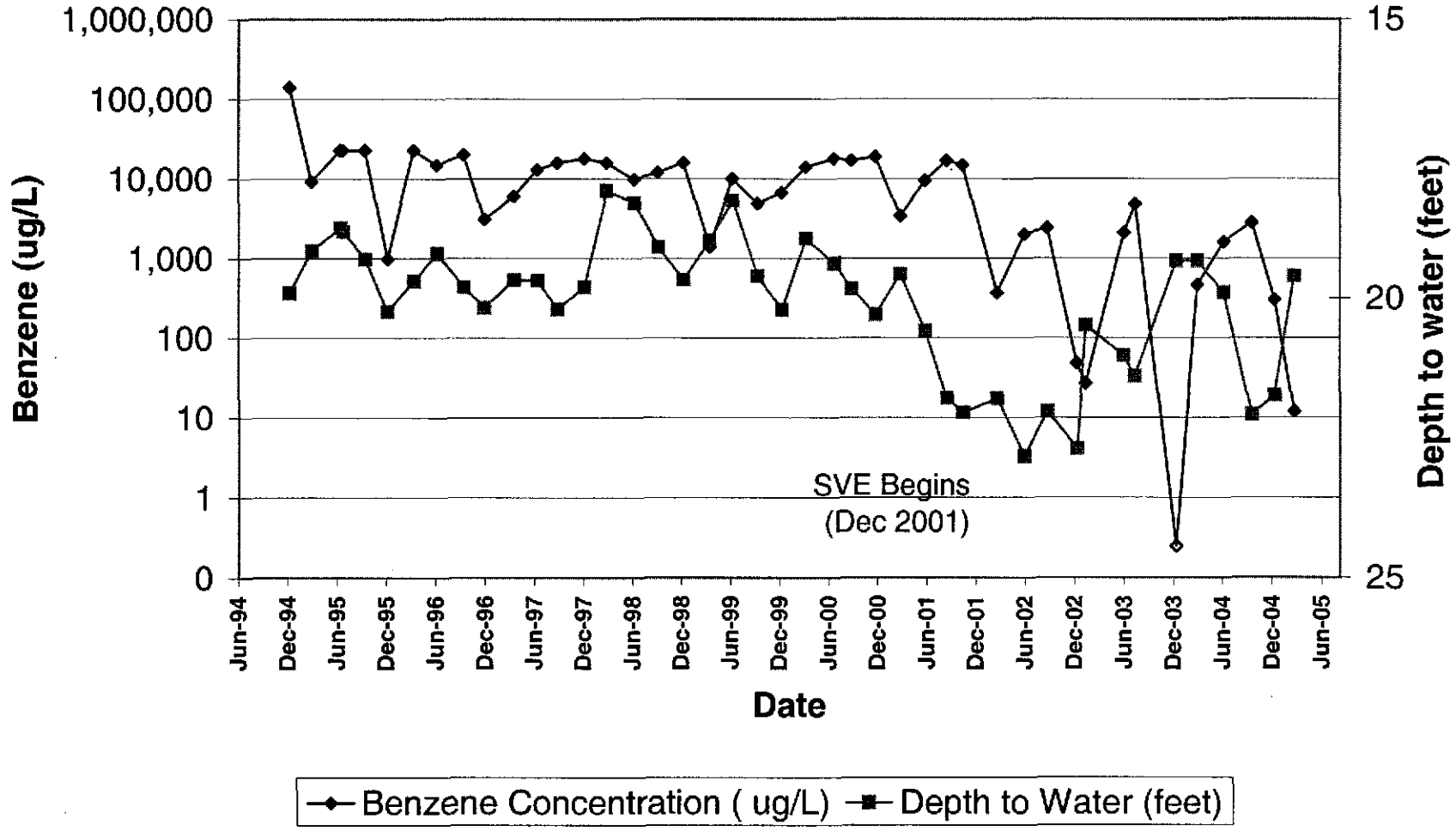
Benzene Concentration and Depth to Water versus Time Trend Graphs



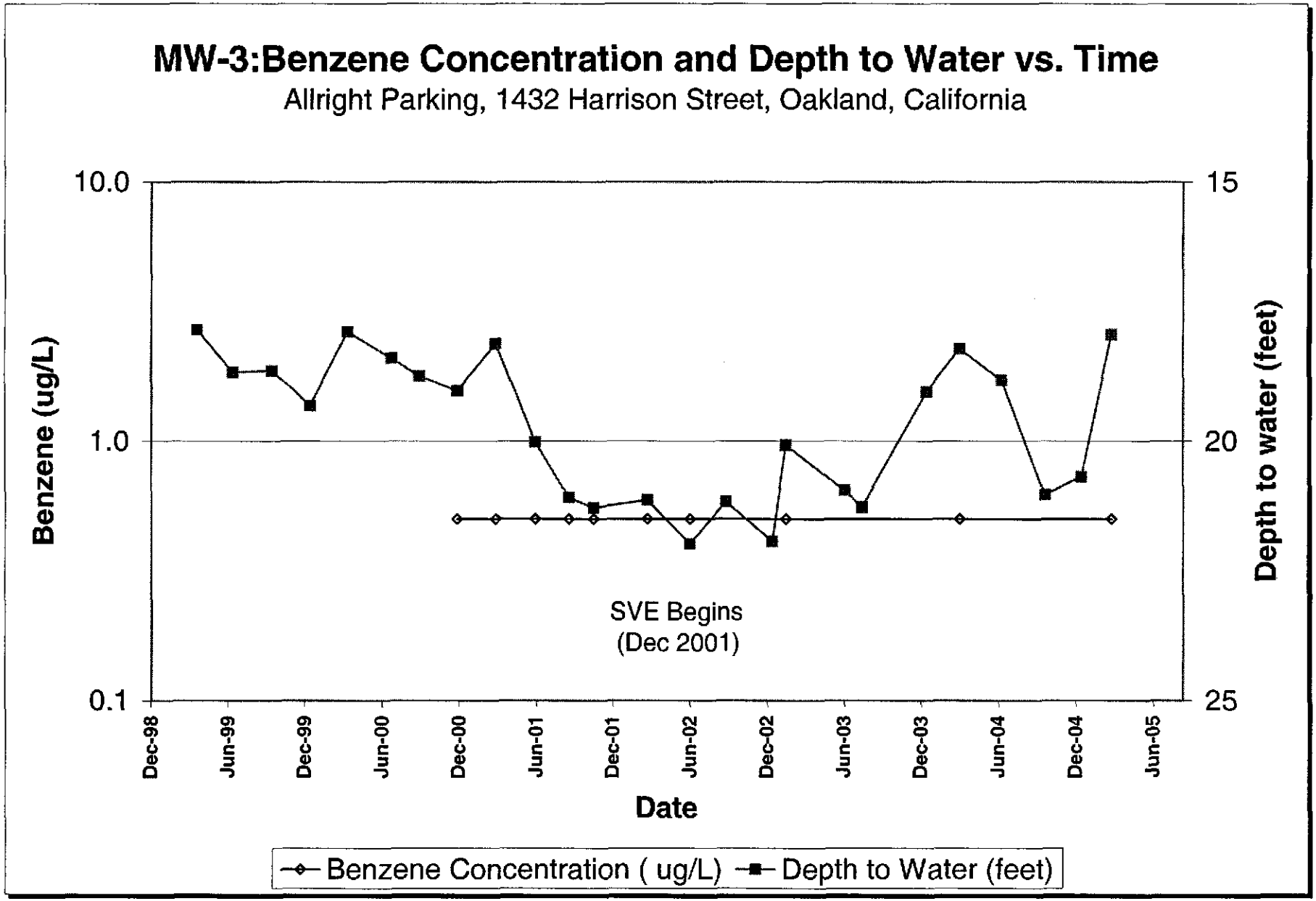
H:\Borsuk - Oakland\QM\2004\Borsuk 1Q05.

MW-2: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



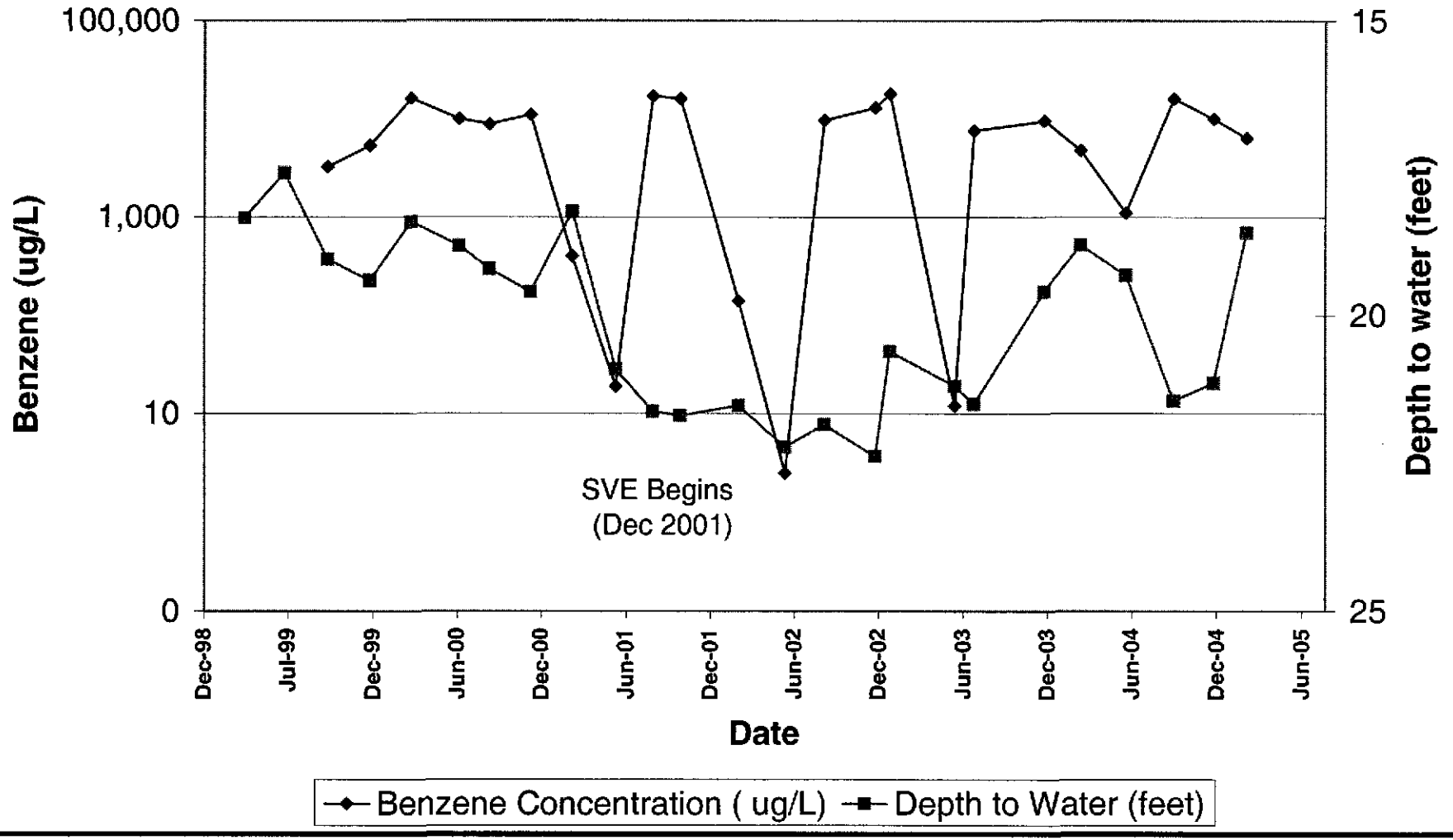
H:\Borsuk - Oakland\QM\2004\Borsuk 1Q05



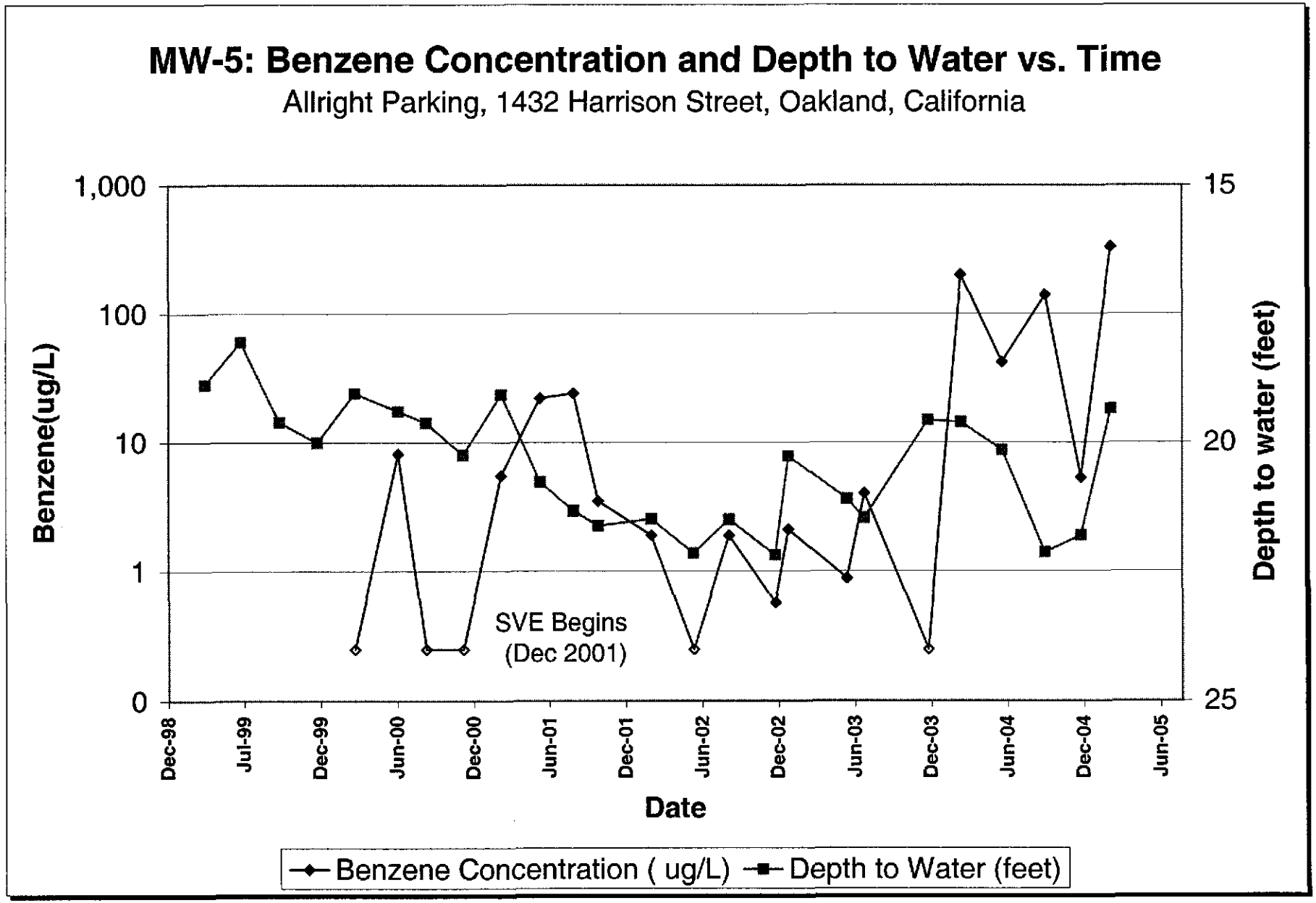
H:\Borsuk - Oakland\QM\2004\Borsuk 1Q05

MW-4: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



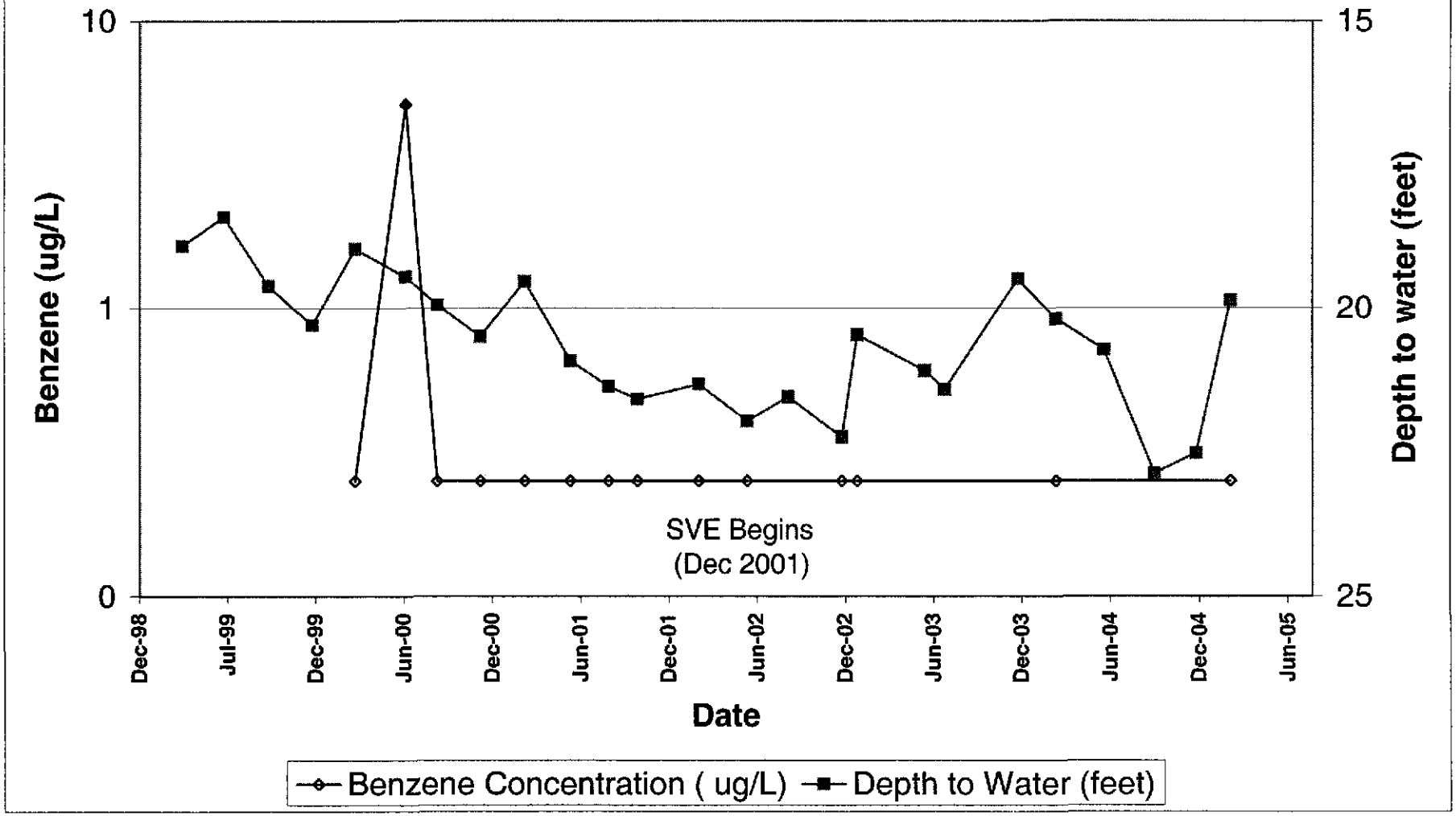
H:\Borsuk - Oakland\QM\2004\MW-4 Chart 1



H:\Borsuk - Oakland\QM\2004\Borsuk 1Q05

MW-6: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



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APPENDIX B

Groundwater Monitoring Field Data Sheets

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL GAUGING SHEET

Client: Cambria Environmental Technology

Site Address: 1432 Harrison Street Oakland, CA

Date: 3/3/2005 **Signature:** Luz Gill

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	6:30		14.42		21.20	Well MW-1 was gauged after disconnecting it from the remediation system and letting water levels stabalize.
MW-2	3:55		19.60		25.60	
MW-3	3:40		17.94		23.92	
MW-4	4:00		18.60		24.78	
MW-5	3:50		19.35		28.45	
MW-6	3:45		19.87		28.28	

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/3/2005
Client:	Cambria Environmental Technology
Site Address:	1432 Harrison Street Oakland, CA
Well ID:	MW-1
Well Diameter:	4"
Purging Device:	4" PVC Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	21.20	**Fe=**	**mg/L**
Depth to Water:	14.42	**ORP=**	**mV**
Water Column Height:	6.78	**DO=**	**mg/L**
Volume/ft:	0.65		
1 Casing Volume (gal):	4.41	**COMMENTS:**	
3 Casing Volumes (gal):	13.22	**Dewatered**	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
6:35	4.41	23.4	7.11	590
6:36	Dewatered			

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-1	3/3/2005	6:45	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020, confrims MTBE by 8260

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/3/2005
Client:	Cambria Environmental Technology
Site Address:	1432 Harrison Street Oakland, CA
Well ID:	MW-2
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	25.60	**Fe=**	**mg/L**
Depth to Water:	19.60	**ORP=**	**mV**
Water Column Height:	6.00	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	0.96	**COMMENTS:**	
3 Casing Volumes (gal):	2.88		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
4:45	0.96	23.9	7.12	720
4:50	1.92	23.5	7.02	733
4:55	2.88	23.7	7.04	741

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-2	3/3/2005	5:00	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020, confrims MTBE by 8260
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/3/2005
Client:	Cambria Environmental Technology
Site Address:	1432 Harrison Street Oakland, CA
Well ID:	MW-3
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	23.92	**Fe=**	**mg/L**
Depth to Water:	17.94	**ORP=**	**mV**
Water Column Height:	5.98	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	0.96	**COMMENTS:**	
3 Casing Volumes (gal):	2.87		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
6:05	0.96	23.6	7.09	520
6:10	1.91	23.2	7.14	511
6:15	2.87	23.4	7.16	528

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-3	3/3/2005	6:20	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020, confrims MTBE by 8260

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/3/2005
Client:	Cambria Environmental Technology
Site Address:	1432 Harrison Street Oakland, CA
Well ID:	MW-4
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	24.78	**Fe=**	**mg/L**
Depth to Water:	18.60	**ORP=**	**mV**
Water Column Height:	6.18	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	0.99	**COMMENTS:**	
3 Casing Volumes (gal):	2.97		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
5:10	0.99	23.6	7.15	842
5:15	1.98	23.9	7.18	850
5:20	2.97	23.6	7.19	855

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-4	3/3/2005	5:25	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020, confrims MTBE by 8260
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/3/2005
Client:	Cambria Environmental Technology
Site Address:	1432 Harrison Street Oakland, CA
Well ID:	MW-5
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	28.45	**Fe=**	**mg/L**
Depth to Water:	19.35	**ORP=**	**mV**
Water Column Height:	9.10	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	1.46	**COMMENTS:**	
3 Casing Volumes (gal):	4.37		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
5:40	1.46	23.9	6.99	475
5:45	2.91	24.1	6.97	583
5:50	*4.37*	*24.1*	*7.00*	*590*

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-5	3/3/2005	5:55	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020, confrims MTBE by 8260

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	3/3/2005
Client:	Cambria Environmental Technology
Site Address:	1432 Harrison Street Oakland, CA
Well ID:	MW-6
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	28.28	**Fe=**	**mg/L**
Depth to Water:	19.87	**ORP=**	**mV**
Water Column Height:	8.41	**DO=**	**mg/L**
Volume/ft:	0.16		
1 Casing Volume (gal):	1.35	**COMMENTS:**	
3 Casing Volumes (gal):	4.04		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (microns)
4:25	1.35	23.6	6.98	891
4:30	2.69	23.6	7.05	860
4:35	4.04	23.4	7.07	845

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-6	3/3/2005	4:40	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020, confrims MTBE by 8260
				Signature:		

APPENDIX C

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
Website: www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188; Borsuk	Date Sampled: 03/03/05
		Date Received: 03/03/05
	Client Contact: Subbarao Nagulapaty	Date Reported: 03/09/05
	Client P.O.:	Date Completed: 03/09/05

WorkOrder: 0503050

March 09, 2005

Dear Subbarao:

Enclosed are:

1). the results of **6** analyzed samples from your **#540-0188; Borsuk project,**

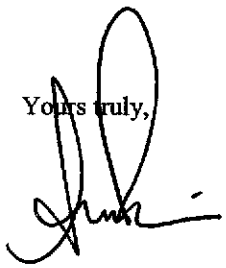
2). a QC report for the above samples

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
Website: www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #540-0188; Borsuk	Date Sampled: 03/03/05
5900 Hollis St, Suite A		Date Received: 03/03/05
Emeryville, CA 94608	Client Contact: Subbarao Nagulapaty	Date Extracted: 03/04/05-03/08/05
	Client P.O.:	Date Analyzed: 03/04/05-03/08/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0503050

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	320,a	ND	5.2	13	3.2	46	1	113
002A	MW-2	W	340,a	ND<10	12	4.4	9.1	28	1	100
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	98
004A	MW-4	W	18,000,a	ND<600	6400	98	500	610	10	98
005A	MW-5	W	2000,a	ND<150	330	4.4	63	39	3.3	102
006A	MW-6	W	ND	ND	ND	ND	ND	ND	1	90

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 ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0503050

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 15222 Spiked Sample ID: 0503047-002A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	101	101	0	97	97.9	0.924	70 - 130	70 - 130
MTBE	ND	10	109	107	2.61	97.7	102	4.55	70 - 130	70 - 130
Benzene	ND	10	111	111	0	99.9	103	3.43	70 - 130	70 - 130
Toluene	ND	10	108	108	0	98.6	102	3.01	70 - 130	70 - 130
Ethylbenzene	ND	10	111	111	0	101	105	4.00	70 - 130	70 - 130
Xylenes	ND	30	96.3	100	3.74	90.7	95.3	5.02	70 - 130	70 - 130
%SS:	111	10	111	110	1.20	104	105	0.503	70 - 130	70 - 130

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

NONE

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503050-001A	15222	3/03/05 6:45 AM	3/04/05 11:33 PM	0503050-002A	15222	3/03/05 5:00 AM	3/08/05 10:42 AM

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

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

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0503050

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 15229 Spiked Sample ID: 0503064-001A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	106	103	3.16	92.8	102	9.91	70 - 130	70 - 130
MTBE	ND	10	99.5	99.1	0.417	90.2	98.3	8.57	70 - 130	70 - 130
Benzene	ND	10	114	105	7.34	103	108	4.26	70 - 130	70 - 130
Toluene	ND	10	110	101	8.73	108	107	0.429	70 - 130	70 - 130
Ethylbenzene	ND	10	115	107	7.27	107	113	5.43	70 - 130	70 - 130
Xylenes	ND	30	107	96	10.5	110	100	9.52	70 - 130	70 - 130
%SS:	109	10	111	111	0	102	109	5.96	70 - 130	70 - 130

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

NONE

Sample ID	Batch ID	Date Sampled	Date Analyzed	Sample ID	Batch ID	Date Sampled	Date Analyzed
0503050-003A	15229	3/03/05 6:20 AM	3/04/05 3:53 PM	0503050-004A	15229	3/03/05 5:25 AM	3/04/05 7:16 PM
0503050-005A	15229	3/03/05 5:55 AM	3/04/05 4:37 PM	0503050-006A	15229	3/03/05 4:40 AM	3/04/05 8:29 PM

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

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

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0503050 **ClientID: CETE**

Report to:
Subbarao Nagulapaty
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #540-0188; Borsuk
PO:

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

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

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0503050-001	MW-1	Water	3/3/05 6:45:00 AM	☐	A	A													
0503050-002	MW-2	Water	3/3/05 5:00:00 AM	☐	A														
0503050-003	MW-3	Water	3/3/05 6:20:00 AM	☐	A														
0503050-004	MW-4	Water	3/3/05 5:25:00 AM	☐	A														
0503050-005	MW-5	Water	3/3/05 5:55:00 AM	☐	A														
0503050-006	MW-6	Water	3/3/05 4:40:00 AM	☐	A														

Test Legend:

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

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.

0503050

McCAMPBELL ANALYTICAL, INC.

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

CHAIN OF CUSTODY RECORD

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

EDF Required? (Yes) No

Report To: Subbarao Nagulapaty Bill To: Cambria Env. Tech
Company: Cambria Environmental Technology
5900 Hollis St.
Emeryville, CA E-Mail: snagulapaty@cambria-env.com
Tele: 510-420-3361 Fax: 510-420-9170
Project #: 540-0188 Project Name: Borsuk
Project Location: 1432 Harrison St Oakland, CA
Sampler Signature: Maskan Environmental Sampling

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other
MW-1		3-3-05	6:45	3	voa	X					X	X		
MW-2			5:00			X					X	X		
MW-3			6:20			X					X	X		
MW-4			5:25			X					X	X		
MW-5			5:55			X					X	X		
MW-6			4:40			X					X	X		
TB		X		2	*	X					X	X		

Analysis Request	Other	Comment
MTBE / BTEX & TPH as Gas (602 / 8021+ 8015)	confirm any MTBE hits by 8260	Filter Samples f Metals analysis: Yes / No
MTBE / BTEX ONLY (EPA 602 / 8021)		
TPH as Diesel / Motor Oil (8015)		
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)		
Total Petroleum Hydrocarbons (418.1)		
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)		
EPA 505/ 608 / 8081 (Cl Pesticides)		
EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners		
EPA 507 / 8141 (NP Pesticides)		
EPA 515 / 8151 (Acidic Cl Herbicides)		
EPA 524.2 / 624 / 8260 (VOCs)		
Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2 – DCA, 1,2 – EDB, ethanol) by 8260B		
TPHg by 8015 M		
VOCs and fuel additives by 8260		
TPHg / BTEX & MTBE by (8015 / 8020)		

MW-1 X X X X X X X
MW-2 X X X X X X X
MW-3 X X X X X X X
MW-4 X X X X X X X
MW-5 X X X X X X X
MW-6 X X X X X X X
TB — Hold

Relinquished By:	Date:	Time:	Received By:
	3/3/05	811	
Relinquished By:	Date:	Time:	Received By:

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

APPENDIX D

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
Website: www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #540-0188-61; BORSUK	Date Sampled: 01/10/05
5900 Hollis St, Suite A		Date Received: 01/11/05
Emeryville, CA 94608	Client Contact: Subbarao Nagulapaty	Date Reported: 01/19/05
	Client P.O.:	Date Completed: 01/19/05

WorkOrder: 0501127

January 19, 2005

Dear Subbarao:

Enclosed are:

1). the results of **1** analyzed sample from your **#540-0188-61; BORSUK project,**

2). a QC report for the above sample

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

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188-61; BORSUK	Date Sampled: 01/10/05
5900 Hollis St, Suite A		Date Received: 01/11/05
Emeryville, CA 94608	Client Contact: Subbarao Nagulapaty	Date Extracted: 01/12/05
	Client P.O.:	Date Analyzed: 01/12/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0501127

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	660,a	ND<6.0	3.0	4.8	ND<0.60	5.6	4	97.9

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	0.15	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 ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Air QC Matrix: Water WorkOrder: 0501127

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 14632 Spiked Sample ID: 0501128-009A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	101	97.9	3.37	103	99.9	2.86	70 - 130	70 - 130
MTBE	ND	10	98.3	98.8	0.479	103	98.5	4.22	70 - 130	70 - 130
Benzene	ND	10	104	107	3.08	105	106	0.963	70 - 130	70 - 130
Toluene	ND	10	101	104	2.50	102	102	0	70 - 130	70 - 130
Ethylbenzene	ND	10	104	106	1.37	105	106	1.42	70 - 130	70 - 130
Xylenes	ND	30	91.7	95	3.57	95	95.7	0.699	70 - 130	70 - 130
%SS:	104	10	109	111	1.63	108	107	0.648	70 - 130	70 - 130

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

NONE

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

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

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0501127 **ClientID: CETE**

Report to:
Subbarao Nagulapaty
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #540-0188-61; BORSUK
PO:

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

Requested TAT: 5 days
Date Received: 01/11/2005
Date Printed: 01/11/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0501127-001	INF	Air	1/10/05 4:45:00 PM	☐	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.

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188-68; BORSUK	Date Sampled: 02/02/05
5900 Hollis St, Suite A		Date Received: 02/03/05
Emeryville, CA 94608	Client Contact: Subbarao Nagulapaty	Date Reported: 02/08/05
	Client P.O.:	Date Completed: 02/08/05

WorkOrder: 0502065

February 08, 2005

Dear Subbarao:

Enclosed are:

1). the results of **1** analyzed sample from your **#540-0188-68; BORSUK project,**

2). a QC report for the above sample

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

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188-68; BORSUK	Date Sampled: 02/02/05
5900 Hollis St, Suite A		Date Received: 02/03/05
Emeryville, CA 94608	Client Contact: Subbarao Nagulapaty	Date Extracted: 02/04/05
	Client P.O.:	Date Analyzed: 02/04/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0502065

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	360,a	ND<3.0	1.4	3.5	ND<0.50	3.8	2	105

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

* vapor samples are reported in µL/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L, water samples and all TCLP & SPLP extracts are reported 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 ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Air QC Matrix: Water WorkOrder: 0502065

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 14901 Spiked Sample ID: 0502064-001A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	81.8	86.1	5.04	95.8	99.8	4.07	70 - 130	70 - 130
MTBE	ND	10	81.6	84.5	3.44	89.6	95	5.85	70 - 130	70 - 130
Benzene	ND	10	85.7	97.8	13.2	90.2	94.1	4.24	70 - 130	70 - 130
Toluene	ND	10	89.1	99.1	10.7	89.3	97.1	8.40	70 - 130	70 - 130
Ethylbenzene	ND	10	97.1	99.9	2.91	89.8	96.9	7.62	70 - 130	70 - 130
Xylenes	ND	30	99.3	99.7	0.335	85.7	90.3	5.30	70 - 130	70 - 130
%SS:	114	10	102	102	0	98	99	1.09	70 - 130	70 - 130

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

NONE

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

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

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

cape

050127

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:	Subbarao Nagulapaty	Bill To:	SAME
Company:	Cambria Environmental Technology, Inc.		
	5900 Hollis Street Suite A		
	Emeryville, CA 94608	E-mail:	snagulapaty@cambria-env.com
Tele:	510 420-3361	Fax:	510 420-9170
Project #:	540-0188-61	Project Name:	BORSUK
Project Location:	1432 Harrison Street, Oakland, California		
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
INF	System	1/10/05	4:45	1	Tb			X						

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	Comments
X																

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

	Date	Time	
Relinquished By:	1/10/05	6pm	Received By:
Relinquished By:	1/11/05	12:15	Received By:
Relinquished By:	1/11/05	3:45	Received By:

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

Use 20 mL injection volume.

Please email results.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0502065 **ClientID: CETE**

Report to:
Subbarao Nagulapaty
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #540-0188-68; BORSUK
PO:

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

Requested TAT: 5 days
Date Received: 02/03/2005
Date Printed: 02/03/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0502065-001	INF	Air	2/2/05 2:00:00 PM	☐	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.

0502605

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:	Subbarao Nagulapaty	Bill To:	SAME
Company:	Cambria Environmental Technology, Inc.		
	5900 Hollis Street Suite A		
	Emeryville, CA 94608	E-mail:	snagulapaty@cambria-env.com
Tele:	510 420-3361	Fax:	510 420-9170
Project #:	540-0188-68	Project Name:	BORSUK
Project Location:	1432 Harrison Street, Oakland, California		
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
INF	System	2/2/05	2pm	1	Tb			X						

Analysis Request

SAMPLE ID	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
INF	X														

Other | Comments

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

PRESERVATION	VOAS	O&G	METALS	OTHER

	Date:	Time:	
Relinquished By:	2/2/05	4pm	Received By: Courier
Relinquished By:	2/3/05	1:40	Received By:
Relinquished By:	2/3/05	2:30	Received By:

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

Use 20 mL injection volume.

Please email results.

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188-68; BORSUK	Date Sampled: 03/07/05
5900 Hollis St, Suite A		Date Received: 03/08/05
Emeryville, CA 94608	Client Contact: Subbarao Nagulapaty	Date Reported: 03/11/05
	Client P.O.:	Date Completed: 03/11/05

WorkOrder: 0503135

March 11, 2005

Dear Subbarao:

Enclosed are:

1). the results of 1 analyzed sample from your **#540-0188-68; BORSUK project,**

2). a QC report for the above sample

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

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188-68; BORSUK	Date Sampled: 03/07/05
5900 Hollis St, Suite A		Date Received: 03/08/05
Emeryville, CA 94608	Client Contact: Subbarao Nagulapaty	Date Extracted: 03/09/05
	Client P.O.:	Date Analyzed: 03/09/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0503135

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	270,a	ND<5.0	1.1	1.6	ND<0.30	2.2	2	104

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

* vapor samples are reported in µL/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L, water samples and all TCLP & SPLP extracts are reported 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 ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Air | QC Matrix: Water | WorkOrder: 0503135

EPA Method: SW8021B/8015Cm | **Extraction: SW5030B** | **BatchID: 15269** | **Spiked Sample ID: 0503122-003A**

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) £	ND	60	102	99.9	2.05	99.3	94.6	4.87	70 - 130	70 - 130
MTBE	ND	10	96.3	94.2	2.26	98.7	90.9	8.21	70 - 130	70 - 130
Benzene	ND	10	111	109	1.96	107	111	4.29	70 - 130	70 - 130
Toluene	ND	10	112	108	3.34	103	104	1.60	70 - 130	70 - 130
Ethylbenzene	ND	10	119	114	4.18	101	105	3.91	70 - 130	70 - 130
Xylenes	ND	30	107	107	0	91	91.3	0.366	70 - 130	70 - 130
%SS:	107	10	115	112	2.55	115	116	0.932	70 - 130	70 - 130

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

NONE

BATCH 15269 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0503135-001A	3/07/05 5:00 PM	3/08/05 3:30 PM	3/09/05 8:37 AM				

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

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

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

cetc

0503135

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:	Subbarao Nagulapaty	Bill To:	SAME
Company:	Cambria Environmental Technology, Inc.		
	5900 Hollis Street Suite A		
	Emeryville, CA 94608	E-mail:	snagulapaty@cambria-env.com
Tele:	510 420-3361	Fax:	510 420-9170
Project #:	540-0188-68	Project Name:	BORSUK
Project Location:	~~1432~~ Harrison Street, Oakland, California		
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	3/7/05	6pm	1	Tb			X							X																

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

Relinquished By:		Date: 3/7/05	Time: 6:30pm	Received By:
Relinquished By:		Date: 3/8/05	Time: 11:15am	Received By:
Relinquished By:		Date: 3/8/05	Time: 1105	Received By:

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

Use 20 mL injection volume.

Please email results.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0503135 **ClientID: CETE**

Report to:
Subbarao Nagulapaty
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #540-0188-68; BORSUK
PO:

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

Requested TAT: 5 days
Date Received: 03/08/2005
Date Printed: 03/08/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0503135-001	INF	Air	3/7/05 5:00:00 PM	☐	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.

APPENDIX E

Geotracker Electronic Delivery Confirmations

Electronic Submittal Information

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

Your EDF file has been succcessfully uploaded!

Confirmation Number: 5530728459
Date/Time of Submittal: 4/6/2005 9:37:56 AM
Facility Global ID: T0600100682
Facility Name: A BACHARACH TR & B BORSUK
Submittal Title: GW Analytical Data
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

A BACHARACH TR & B BORSUK
1432 HARRISON ST
OAKLAND, CA 94612

Regional Board - Case #: 01-0739
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 498
ALAMEDA COUNTY LOP - **(AG)**

CONF #	TITLE	QUARTER
5530728459	GW Analytical Data	Q1 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Matt Meyers	4/6/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	SW8021F
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- SW8021F REQUIRES ETBE TO BE TESTED	
- SW8021F REQUIRES TAME TO BE TESTED	
- SW8021F REQUIRES DIPE TO BE TESTED	
- SW8021F REQUIRES TBA TO BE TESTED	
- SW8021F REQUIRES DCA12 TO BE TESTED	
- SW8021F REQUIRES EDB TO BE TESTED	
LAB NOTE DATA QUALIFIERS	N

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y

BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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

Electronic Submittal Information

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:	**1st Qtr 2005 GW Depth Data, 1432 Harrison St, Oakland**
Submittal Date/Time:	**4/6/2005 9:34:34 AM**
Confirmation Number:	**8515655338**

Back to Main Menu

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CONTACT SITE ADMINISTRATOR.