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1626 Vallejo Street
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January 30, 2005

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

SUBJECT: IVQ04 Monitoring/SVE System Progress Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Hwang:

Attached is the IVQ04 Groundwater Monitoring/SVE Systems Progress Report for the above site. If you have a question, please contact me.

Sincerely yours,



Mark Borsuk

January 21, 2005

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

Re: **Groundwater Monitoring and System Progress Report
Fourth Quarter 2004**
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 – Fourth Quarter 2004*. Presented in the report are the fourth quarter 2004 activities and results, and the anticipated first 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 - Fourth Quarter 2004*
(2 copies)

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
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C A M B R I A

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

FOURTH QUARTER 2004

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



January 21, 2005

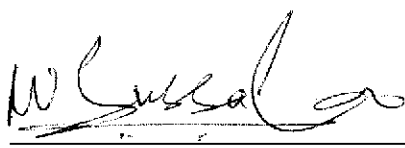
Prepared for:

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

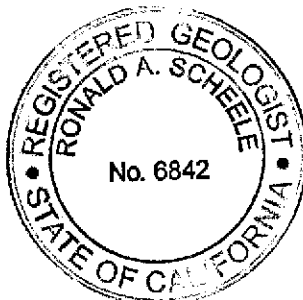
Prepared by:

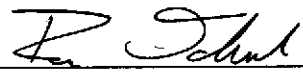
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608

Written by:

for


Rowan Fennell
Senior Staff Scientist





Ron Scheele, R.G.
Senior Geologist

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

FOURTH QUARTER 2004

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

January 21, 2005

INTRODUCTION



On behalf of Mr. Mark Borsuk, Cambria Environmental Technology, Inc. (Cambria) has prepared this Groundwater Monitoring and System Progress Report – Fourth Quarter 2004 for the above-referenced site (see Figure 1). Presented in this report are the fourth quarter 2004 groundwater monitoring and remediation activities, and the anticipated first quarter 2005 activities.

FOURTH QUARTER 2004 ACTIVITIES AND RESULTS

Monitoring Activities

Field Activities: On December 22, 2004, Cambria conducted quarterly monitoring activities. Cambria 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, MW-2, MW-4, and MW-5. 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 Cambria's December 22, 2004 site visit, groundwater beneath the site generally flows toward the north-northeast

at a gradient of 0.004 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 all four sampled wells this quarter. TPHg concentrations ranged from 250 micrograms per liter ($\mu\text{g/L}$) to 29,000 $\mu\text{g/L}$ with the highest concentration detected in well MW-4. Benzene concentrations ranged from 3.5 $\mu\text{g/L}$ to 10,000 $\mu\text{g/L}$, with the highest concentration detected in well MW-4. MTBE was not detected above laboratory detection 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.

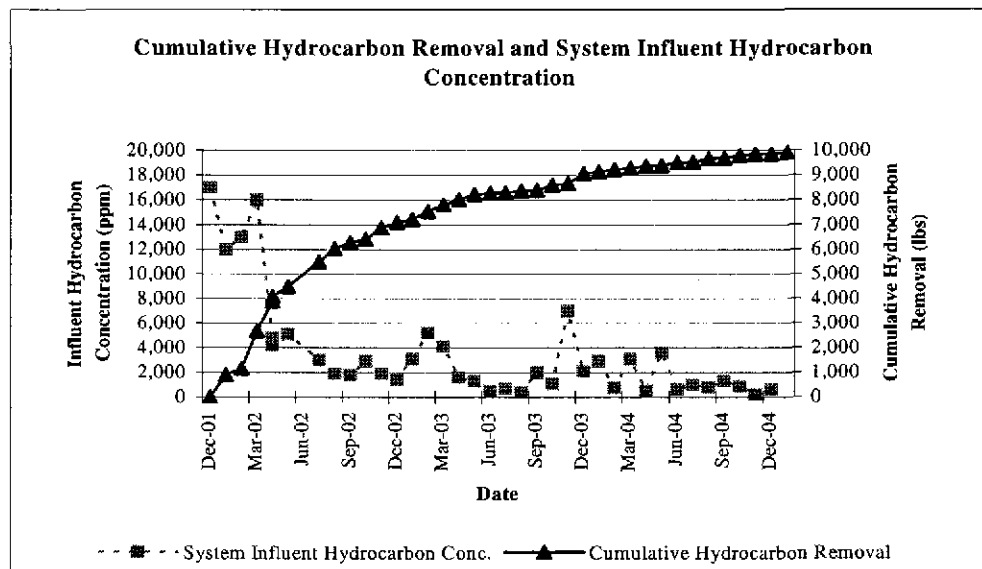
SVE/AS System Operation and Maintenance Activities: During the fourth quarter, Cambria performed system operation and maintenance (O&M) on the SVE/AS system approximately three times per month. Individual well flow, vacuum, and hydrocarbon concentration measurements were collected from all SVE wells and from the 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 October 11, November 4, and December 6, 2004. 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 fourth quarter. The system was shutdown manually on November 1, 2004 for carbon changeout activities and shutdown automatically on November 3, 2004 due to a malfunctioning air pressure switch. 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.

From October 11, 2004 to January 10, 2005, the SVE system operated for a total of 2,070 hours, a run-time of approximately 95 percent. Influent hydrocarbon vapor concentrations ranged from 220 to 890 parts per million by volume (ppmv) and vapor flow rates ranged from 4.9 to 9.8 standard cubic feet per minute (see Table 2). Hydrocarbon removal rates ranged from approximately 0.35 to 2.8 pounds per day. The fluctuation in hydrocarbon removal rates is primarily due to equipment adjustments related to performance optimization activities. As of January 10, 2005, approximately 9,897 pounds of hydrocarbons have been extracted and destroyed by soil vapor extraction activities (see graph below and Table 2).

AS System Performance: Active air sparge operation was initiated on December 30, 2004. Ambient air is 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 will be monitored to evaluate effectiveness of air sparge activities.

ANTICIPATED FIRST QUARTER 2005 ACTIVITIES

Monitoring Activities



Cambria will gauge all monitoring wells; check wells for SPH; and collect groundwater samples from wells not containing SPH. As per the sampling schedule, all wells (MW-1 through MW-6) will be sampled during the first 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 - First Quarter 2005*.

Corrective Action Activities

Cambria will continue to perform operation and maintenance visits of the SVE/AS system approximately two to three times per month during the first quarter of 2005. Optimization activities will include system vacuum adjustments to maximize subsurface air flow and extraction flow rates. During site visits, system parameters will be recorded in specialized field forms and will incorporate BAAQMD's required monitoring data. The BAAQMD does not require vapor sampling under the permit conditions governing activated vapor-phase carbon treatment, however, a system influent vapor sample will be collected on a monthly basis to calculate cumulative hydrocarbon mass removal. Passive in-well air sparging will continue in well MW-1 and will be continually monitored and optimized during system O&M events. Cambria will evaluate the performance of the remediation system and include the results with the *Groundwater Monitoring and System Progress Report - First Quarter 2005*.

APPENDICES

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

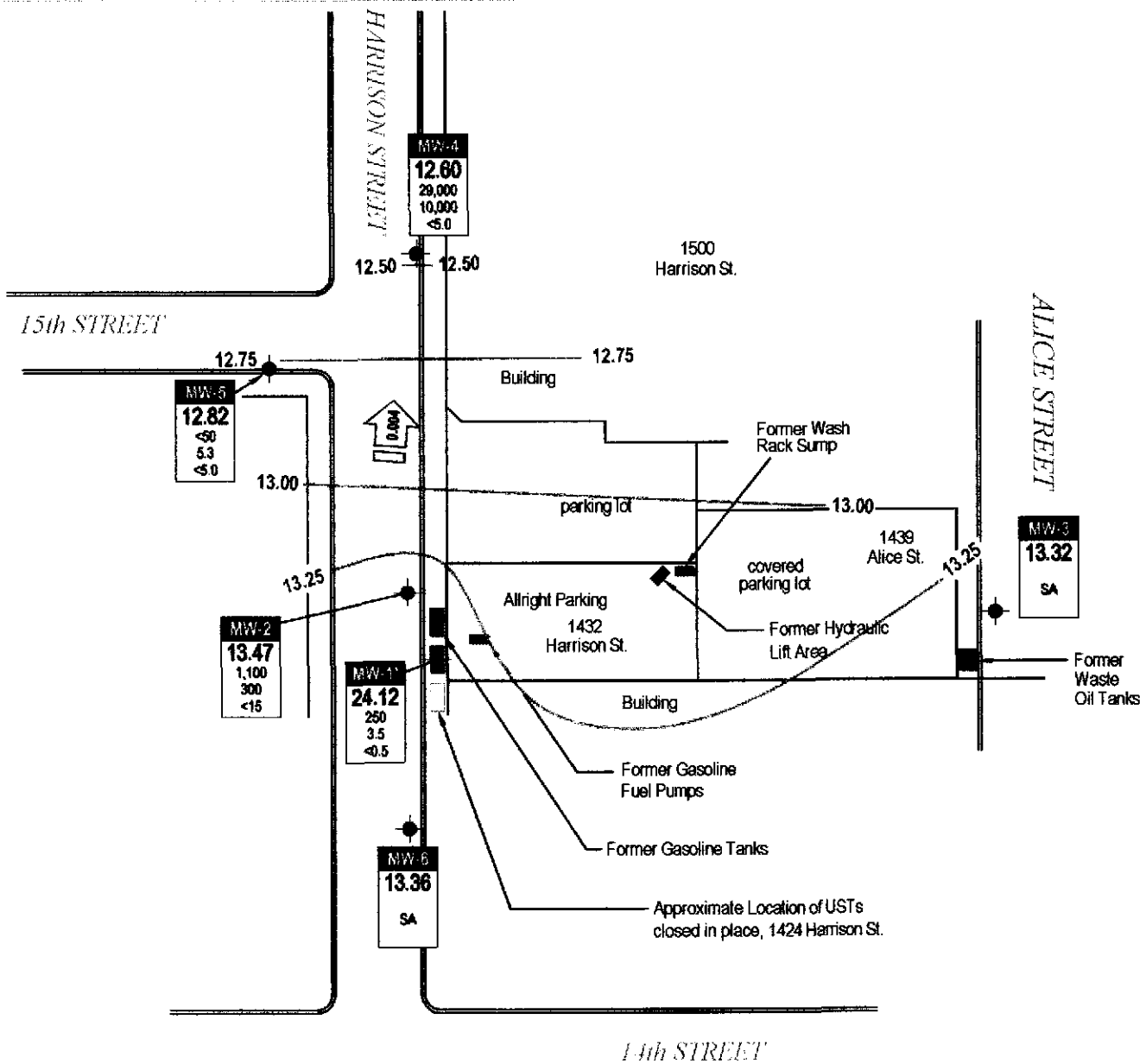
Appendix B – Groundwater Monitoring Field Data Sheets

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
- Groundwater elevation contour, in feet above mean sea level (msl)
- Groundwater flow direction and gradient
- Well designation
- Groundwater elevation, in feet above mean sea level (msl)
- Hydrocarbons and MTBE in groundwater, in micrograms per liter ($\mu\text{g/L}$)
- SA Sampled Annually

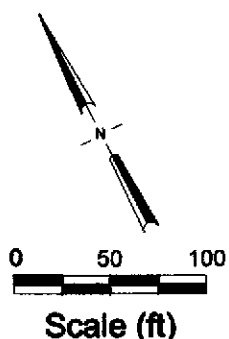


FIGURE 1

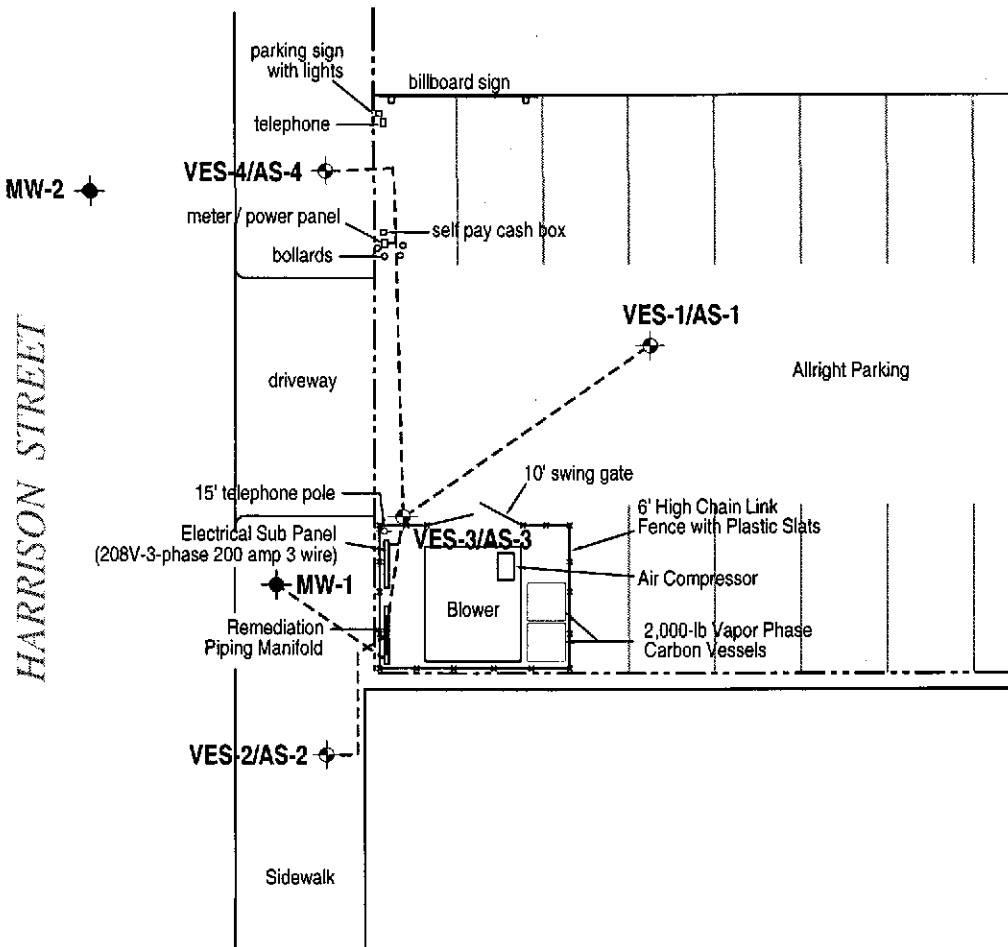
* = Groundwater mounding exists at well MW-1 due to soil vapor extraction on the well. Data not used in groundwater elevation contours.

Allright Parking
 1432 Harrison Street
 Oakland, California



Groundwater Elevation and Hydrocarbon Concentration Map
 December 22, 2004

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

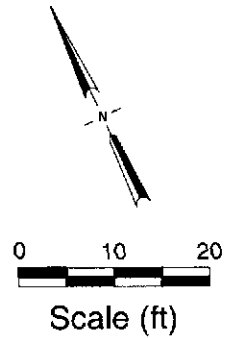


FIGURE 2

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

Allright Parking
 1432 Harrison Street
 Oakland, California



**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 <i>TOC (feet)</i>	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg ←	Benzene	Toluene			Ethylbenzene	Xylenes	MTBE	Notes
							(µg/L)						
MW-1	8/1/1994	--	--	--	170,000	35,000	51,000	2,400	13,000	--	--	--	--
34.95	12/21/1994	19.53	--	15.42	180,000	41,000	64,000	3,100	100,000	--	--	--	--
	3/13/1995	18.66	--	16.29	150,000	31,000	45,000	2,500	17,000	--	--	--	--
	6/27/1995	18.20	--	16.75	71,000	17,000	18,000	1,600	7,700	--	--	--	--
	7/7/1995	18.35	--	16.60	71,000	17,000	18,000	1,600	7,700	--	--	--	--
	9/28/1995	18.20	--	16.75	110,000	27,000	34,000	1,700	14,000	--	--	--	--
	12/20/1995	19.96	--	14.99	120,000	33,000	43,000	2,300	15,000	--	--	--	--
	3/26/1996	19.27	--	15.68	140,000	29,000	36,000	1,900	13,000	<200*	d	--	--
	6/20/1996	18.64	--	16.31	110,000	30,000	38,000	2,200	13,000	<200*	--	--	--
	9/26/1996	19.35	--	15.60	170,000	28,000	40,000	2,200	15,000	ND**	--	--	--
	10/28/1996	19.58	--	15.37	--	--	--	--	--	--	--	--	--
	12/12/1996	19.68	--	15.27	110,000	36,000	47,000	2,500	16,000	ND*	--	--	--
	3/31/1997	18.80	--	16.15	160,000	24,000	39,000	1,900	13,000	ND*	--	--	--
	6/27/1997	19.26	--	15.69	130,000	25,000	36,000	2,000	14,000	ND*	--	--	--
	9/9/1997	19.70	--	15.25	99,000	22,000	27,000	1,600	13,000	270*	--	--	--
	12/18/1997	19.25	--	15.70	160,000	30,000	44,000	2,200	15,000	ND***	--	--	--
	3/12/1998	17.52	--	17.43	190,000	20,000	49,000	2,500	18,000	ND***	--	--	--
	6/22/1998	18.63	--	16.32	90,000	19,000	40,000	2,100	16,000	--	--	--	--
	9/18/1998	18.60	--	16.35	190,000	29,000	48,000	2,400	17,000	--	--	--	--
	12/23/1998	19.18	--	15.77	140,000	24,000	44,000	2,000	8,200	--	--	--	--
	3/29/1999	18.52	--	16.43	181,000	22,200	40,100	1,844	12,200	--	--	--	--
	6/23/1999	18.60	--	16.35	80,000	20,000	33,000	1,600	11,000	--	--	--	--
	9/24/1999	19.05	--	15.90	117,000	15,100	20,700	1,550	11,800	--	--	--	--
	12/23/1999	19.95	--	15.00	186,000	25,900	39,000	1,990	12,400	--	--	--	--
	3/21/2000	18.48	--	16.47	210,000	35,000	42,000	2,200	13,000	<3,000	a	--	--
	7/3/2000	18.95	--	16.00	200,000	33,000	46,000	2,200	15,000	<200*	a	--	--
	9/7/2000	19.45	Sheen	15.50	--	--	--	--	--	--	--	--	--
	12/5/2000	19.90	--	15.05	220,000	42,000	57,000	2,700	17,000	<200	a	--	--
	3/6/2001	18.20	--	16.75	180,000	27,000	39,000	2,000	13,000	<1200 (<20)	a,j	--	--
	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 ^t	--	--	--	--	--	--	--	--	--
	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 ^s	--	--	--	--	--	--	--	--	--
	7/23/2003	19.42	0.07	15.59 ^t	--	--	--	--	--	--	--	--	--
35.37#	12/22/2003	17.09	0.01	18.29 ^r	--	--	--	--	--	--	--	--	--
	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	--	--

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Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID <i>TOC (feet)</i>	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg ←	Benzene	Toluene (µg/L)	Ethylbenzene	Xylenes	MTBE →	Notes
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,1
	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

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Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID <i>TOC (feet)</i>	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	--	--	--	--	--	--	--	

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Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID <i>TOC (feet)</i>	Date	Depth to Groundwater (feet)	SPII 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

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Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID <i>TOC (feet)</i>	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg	Benzene Toluene Ethylbenzene Xylenes MTBE					Notes
						(µg/L)					
MW-5 34.63	10/28/1996	19.88	--	14.75	90	4.0	0.6	<0.50	<0.50	16*	
	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	--	--
	3/29/1999	18.88	--	15.75	ND	ND	ND	ND	ND	--	--
	6/23/1999	18.05	--	16.58	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.61	--	15.02	ND	ND	ND	ND	ND	--	--
	12/23/1999	20.01	--	14.62	ND	ND	ND	ND	ND	--	--
	3/21/2000	19.05	--	15.58	140	<0.5	<0.5	<0.5	<0.5	<5.0	--
	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	--	

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Table 1. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID <i>TOC (feet)</i>	Date	Depth to Groundwater (feet)	SPH Thickness (feet)	Groundwater Elevation (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
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	--
	8/27/2001	21.37	--	14.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	10/25/2001	21.59	--	14.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/1/2002	21.33	--	14.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/10/2002	21.97	--	13.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/2002	21.55	--	14.34	--	--	--	--	--	--	--
	12/22/2002	22.25	--	13.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	1/23/2003	20.47	--	15.42	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/12/2003	21.09	--	14.80	--	--	--	--	--	--	--
	7/23/2003	21.42	--	14.47	--	--	--	--	--	--	--
	12/22/2003	19.49	--	16.40	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--
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	--

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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
<i>TOC (feet)</i>		(feet)	(feet)	(feet)	← (µg/L) →						
Abbreviations					Notes						
TOC = Top of casing elevation					a = Unmodified or weakly modified gasoline is significant.						
SPH = Separate-phase hydrocarbons					b = Lighter than water immiscible sheen is present.						
TPHg = Total petroleum hydrocarbons as gasoline by modified EPA method 8015					c = Liquid sample that contains greater than ~2 vol. % sediment.						
Benzene, toluene, ethylbenzene, and xylenes by EPA method 8020					d = MTBE result confirmed by secondary column or GC/MS analysis.						
MTBE = Methyl tert-butyl ether * = MTBE by EPA Method 8020					e = Sample analyzed for purgeable hydrocarbons by EPA method 8010, no purgeable hydrocarbons were detected.						
** = MTBE by EPA Method 8240					f = Sample analyzed for VOCs by EPA method 8240, no non-BTEX compounds were detected. EPA method Modified 8015, no TPHmo was detected.						
*** = MTBE by EPA Method 8260					g = Sample analyzed for Total Petroleum Hydrocarbons as motor oil (TPHmo)						
µg/L = micrograms per liter, equivalent to parts per billion					h = Analytic sampling discontinued. Approved by Alameda County Department of Environmental Health.						
-- = Not sampled, not analyzed, or not applicable					i = Lighter than gasoline range compounds are significant.						
<n = Not detected in sample above n µg/L					j = Gasoline range compounds having broad chromatographic peaks are significant.						
ND = Not detected above laboratory detection limit					k = No recognizable pattern.						
x = Groundwater elevation adjusted for SPH by the relation:					l = Sample diluted due to high organic content.						
Groundwater Elevation = Well Elevation - Depth to Water + (0.7 x SPH thickness)					m = Liquid sample that contains greater than ~1 vol. % sediment.						
# = The wellhead elevation was raised by 0.41 feet when well MW-1 was connected to the SVE system on October 31, 2003.					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 (H ₂ O)	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		Benz			
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	
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	

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	Benz	TPHg	TPHg	Benz	TPHg	TPHg	Benz		
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		
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		

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 (H ₂ O)	Total Well Flow Rate (prior to dilution) (scfm)	Total Well HC Conc. (ppmv)	System Inlet Temp. (degrees F)	System Flow Rate (after dilution) (cfm)	Total 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	Benz	TPHg		TPHg	Benz		
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 ⁵	--	3.92	<0.020	--	-- ³	9521
8/12/2004	21702.2	99%	62	7.4	780	--	*	*	0 ⁵	--	1.86	<0.012	--	-- ³	9665
9/16/2004	22024.9	38%	39	9.2	1,300	--	*	*	0 ⁵	--	3.85	<0.015	--	-- ³	9690
10/11/2004	22622.5	100%	50	9.8	890	--	*	*	0 ⁵	--	2.80	<0.016	--	-- ³	9785
11/4/2004	23185.2	98%	38	4.9	220	--	*	*	0 ⁵	--	0.35	<0.008	--	-- ³	9851
12/6/2004	23853.9	87%	45	5.2	610	--	*	*	0 ⁵	--	1.03	<0.008	--	-- ³	9861
1/10/2005	24693.0	100%	65	3.9	--	--	*	*	0 ⁵	--	--	<0.006	--	-- ³	9897

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/386x10⁶n³ 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.

⁵ 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.

* = 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.

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

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Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor	Status (open/closed)
				Concentration (ppmv)	
MW-1	11/11/03	105	1.0	26,000	open
	11/17/03	85	0.7	3,530	open
	12/2/03	94	1.0	5,700	open
	12/10/03	93	1.6	11,000	open
	12/23/03	95	0.8	10,000	open
	1/7/04	98	0.9	5,050	open
	1/23/04	82	0.59	13,100	open
	1/30/04	81	*	--	open
	2/11/04	62	2.6	160	open
	3/3/04	47	1.0	1,200	open
	3/3/04	150	4.8	589	open
	3/10/04	146	3.0	233	open
	3/24/04	74	0.9-2.5	3,950	open
	4/2/04	81	3.2	225	open
	4/12/04	78	2.18	415	open
	4/27/04	75	5.2	2,010	open
	5/6/04	70	4.0	160	open
	5/17/04	70	--	120	open
	5/27/04	70	1.8	75	open
	6/10/04	80	3.2	180	open
	6/16/04	84	3.8	63	open
	7/6/04	70	6.0	410	open
	7/7/04	72	6.5	360	open
	7/8/04	74	5.0	300	open
	7/28/04	34	6.5	115	open
	8/12/04	21	3.0	270	open
	8/17/04	40	6.0	535	open
	8/25/04	40	4.4	360	open
	9/16/04	22	5.3	1,425	open
	9/27/04	--	4.5	570	open
	10/11/04	26	3.9	500	open
	11/1/04	48	4.6	200	open
	11/4/04	38	--	160	open
12/6/04	42	2.8	215	open	
12/22/04	50	4.6	30	open	
12/22/04	70	5.9	62	open	
12/22/04	90	6.6	93	open	
VES-1	12/13/01	--	--	36,000	open
	12/20/01	25	6.5	43,000	open
	12/27/01	48	12.4	41,000	open
	1/7/02	100	20.5	>10,000	open
	2/8/02	140	27	>10,000	open
	3/5/02	34	6.3	>10,000	open
	4/2/02	83	13.5	10,070	open
	4/15/02	101	28.2	10,070	open
	5/22/02	80	22.5	9,980	open
	5/27/02	81	4.5	27,000	open
	6/5/02	77	22.1	11,110	open
	6/21/02	81	*	7,810	open
	7/2/02	82	25	10,400	open
	7/26/02	81	22.5	5,210	open
	8/5/02	80	5.5	6,020	open
	9/10/02	80	5.2	9,180	open
	10/2/02	80	10.5	11,070	open
	11/6/02	82	9.0	4,850	open
	12/5/02	90	8.5	4,000	open
	1/8/03	92	5.1	2,340	open
	1/24/03	95	4.0	2,350	open
	3/4/03	90	3.6	1,750	open
	3/17/03	93	7.5	1,360	open
4/3/03	115	4.0	720	open	

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Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
--> VES-1	4/14/03	116	--	1,180	open
	5/7/03	117	3.5	660	open
	5/15/03	119	6.0	1,950	open
	5/27/03	117	4.1	1,600	open
	6/13/03	118	3.9	1,525	open
	6/23/03	118	--	--	open
	7/2/03	119	25*	1,270	open
	7/11/03	118	3.5*	--	open
	8/7/03	117	*	50	open
	8/15/03	117	1.4*	105	closed
	8/26/03	120	4.0	200	open
	9/3/03	116	2.9*	190	open
	10/2/03	116	7.0	70	closed
	10/7/03	114	21	2	closed
	10/15/03	118	23*	1,650	open
	10/21/03	117	21	1,090	open
	11/17/03	85	0.7	2,050	open
	12/2/03	94	0.67	1,550	open
	12/10/03	92	0.63	5,700	open
	12/23/03	95	0.8	7,000	open
	1/7/04	98	0.5	3,750	open
	1/23/04	82	0.57	12,500	open
	1/30/04	81	0.5	--	open
	2/11/04	62	0.25	5,520	open
	3/3/04	47	0.31	1,515	open
	3/3/04	150	5.9	5,130	open
	3/10/04	146	0.7	1,867	open
	3/24/04	74	1.0	4,150	open
	4/2/04	81	0.9	135	open
	4/12/04	78	2.5-25*	80	open
	4/27/04	75	1.8	55	open
	5/6/04	70	3	2,150	open
	5/17/04	70	--	1,485	open
	5/27/04	70	0.9	1,030	open
	6/10/04	80	*	1,025	open
	6/16/04	84	1.4	460	open
	7/6/04	70	*	*	open
	7/7/04	72	*	*	open
	7/8/04	74	*	*	open
	7/28/04	67	*	*	open
	8/12/04	62	1.5	655	open
	8/17/04	63	1.25	520	open
	8/25/04	62	1.0	470	open
	9/16/04	39	1.3	805	open
	9/27/04	--	1.7	510	open
	10/11/04	34	0.9	400	open
	11/1/04	58	0.5	165	open
	11/4/04	38	--	150	open
	12/6/04	42	1.0	130	open
	12/22/04	51	0.4	315	open
12/22/04	72	0.4	650	open	
12/22/04	89	0.5	1,115	open	
VES-2	12/13/01	--	--	40,000	open
	12/20/01	25	6.0	42,500	open
	12/27/01	48	12.1	35,000	open
	1/7/02	100	21.5	>10,000	open
	2/8/02	140	25.1	>10,000	open
	3/5/02	34	7.6	>10,000	open
	4/2/02	83	13.2	--	open
	4/15/02	102	24.1	1,347	open
5/22/02	81	26.1	1,888	open	

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Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
-->VES-2	5/27/02	81	9.5	4,710	open
	6/5/02	79	20.7	2,090	open
	6/21/02	82	47	1,820	open
	7/2/02	81	28.9	5,210	open
	7/26/02	81	13.1	1,515	open
	8/5/02	80	10.5	1,925	open
	9/10/02	80	8.9	1,850	open
	10/2/02	80	8.5	3,370	open
	11/6/02	82	9.0	2,180	open
	12/5/02	90	--	1,870	open
	1/8/03	92	--	6,210	open
	1/24/03	95	4.0	9,630	open
	3/4/03	90	2.5	5,790	open
	3/17/03	93	--	2,020	open
	4/3/03	115	--	3,230	open
	4/14/03	116	--	2,980	open
	5/7/03	117	9.0	700	open
	5/15/03	119	8.0	475	open
	5/27/03	117	5.3	515	open
	6/13/03	118	4.1	525	open
	6/23/03	118	--	--	open
	7/2/03	119	9*	365	open
	7/11/03	118	5*	--	open
	8/7/03	117	15.2*	250	open
	8/15/03	117	8.5*	365	open
	8/26/03	121	4.2	245	open
	9/3/03	116	*	1,295	open
	10/2/03	120	4.0	410	open
	10/7/03	118	17	1,120	open
	10/15/03	119	21	1,550	open
	10/21/03	119	21	1,675	open
	11/17/03	85	1.9	1,115	open
	12/2/03	94	2.0*	460	open
	12/10/03	92	2.0	1,740	open
	12/23/03	95	1.5	1,510	open
	1/7/04	98	1.6	600	open
	1/23/04	82	1.6	90	open
	1/30/04	81	*	--	open
	2/11/04	62	2.1*	130	open
	3/3/04	47	0.87	3,460	open
	3/3/04	150	6.8	883	open
	3/10/04	146	*	3,930	open
	3/24/04	74	1.9	6,800	open
	4/2/04	81	1.0	3,350	open
	4/12/04	78	1.5	1,150	open
	4/27/04	75	2	1,170	open
	5/6/04	70	3.8	190	open
	5/17/04	70	--	65	open
	5/27/04	70	33*	30	open
	6/10/04	80	*	35	open
	6/16/04	84	2.7	20	open
	7/6/04	70	1.5	110	open
	7/7/04	72	1.3	250	open
	7/8/04	74	1.1	220	open
	7/28/04	67	1.4	10	open
	8/12/04	62	1.9	50	open

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Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Hydrocarbon Vapor			Status (open/closed)	
		Well Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Concentration (ppmv)		
-->VES-2	8/17/04	63	2.6	40	open	
	8/25/04	62	1.8	20	open	
	9/16/04	39	2.1	820	open	
	9/27/04	--	1.5	240	open	
	10/11/04	34	1.3	310	open	
	11/1/04	58	1.9	170	open	
	11/4/04	38	--	410	open	
	12/6/04	42	1.4	380	open	
	12/22/04	50	1.6	75	open	
	12/22/04	70	2.0	310	open	
	12/22/04	90	2.5	670	open	
	VES-3	12/13/01	--	--	38,000	open
		12/20/01	25	7.0	41,500	open
12/27/01		48	12	61,000	open	
1/7/02		100	22.5	>10,000	open	
2/8/02		140	26.5	>10,000	open	
3/5/02		47	7.5	>10,000	open	
4/2/02		84	11.1	--	open	
4/15/02		102	24.8	4,260	open	
5/22/02		85	16.5	7,090	open	
5/27/02		81	6.7	7,010	open	
6/5/02		85	14.7	5,290	open	
6/21/02		80	25.5	3,450	open	
7/2/02		82	32.2	4,820	open	
7/26/02		81	9.3	3,400	open	
8/5/02		80	4.5	3,380	open	
9/10/02		80	7.1	3,150	open	
10/2/02		80	4.0	2,140	open	
11/6/02		82	5.5	1,215	open	
12/5/02		90	4.5	1,015	open	
1/8/03		92	5.5	3,840	open	
1/24/03		95	3.0	6,040	open	
3/4/03		90	3.5	3,430	open	
3/17/03		93	1.3	1,980	open	
4/3/03		115	3.5	1,900	open	
4/14/03		116	--	1,950	open	
5/7/03		117	1.5	1,320	open	
5/15/03		119	2.6	1,530	open	
5/27/03		117	1.6	1,250	open	
6/13/03		118	1.5	1,000	open	
6/23/03		118	--	--	open	
7/2/03		119	14*	850	open	
7/11/03		118	1.9	--	open	
8/7/03		117	2.5	375	open	
8/15/03		117	2.7	380	open	
8/26/03		123	2.4	5	closed	
9/3/03		116	3.9*	3,430	open	
10/2/03	121	30*	25	closed		
10/7/03	117	19	225	closed		
10/15/03	118	23	30	closed		
10/21/03	118	21	70	closed		
11/17/03	86	2.0	1,425	open		
12/2/03	94	1.3	280	close		
12/10/03	92	2.2	100	open		
12/23/03	95	2.0	50	open		
1/7/04	98	0.6	4,810	open		
1/23/04	82	0.25	3,620	open		
1/30/04	81	0.7	--	open		
2/11/04	62	0.3	1,280	open		
3/3/04	47	0.39	3,320	open		
3/3/04	150	5.6	1,990	open		

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Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
-->VES-3	3/10/04	146	3.7	285	open
	3/24/04	74	19.7**	40	open
	4/2/04	81	0.5	1,240	open
	4/12/04	78	1.85	440	open
	4/27/04	75	0.9	425	open
	5/6/04	70	2.1	252	open
	5/17/04	70	--	410	open
	5/27/04	70	1.6	220	open
	6/10/04	80	1.9	2	open
	6/16/04	84	2.1	15	open
	7/6/04	70	1.4	20	open
	7/7/04	72	1.2	25	open
	7/8/04	74	1.0	50	open
	7/28/04	67	1.2	120	open
	8/12/04	62	1.0	175	open
	8/17/04	63	1.3	105	open
	8/25/04	62	1.9	92	open
	9/16/04	39	1.7	375	open
	9/27/04	--	1.5	410	open
	10/11/04	34	0.9	390	open
	11/1/04	58	0.9	150	open
	11/4/04	38	--	315	open
	12/6/04	42	1.7	550	open
	12/22/04	49	0.5	250	open
12/22/04	70	0.6	415	open	
12/22/04	90	0.8	777	open	
VES-4	12/13/01	--	--	35,000	open
	12/20/01	25	4.9	46,500	open
	12/27/01	48	12.2	53,000	open
	1/7/02	100	23	>10,000	open
	2/8/02	140	28.1	>10,000	open
	3/5/02	47	9.3	>10,000	open
	4/2/02	84	11.5	--	open
	4/15/02	102	22.5	5,350	open
	5/22/02	80	21.7	570	open
	5/27/02	81	6.3	10,460	open
	6/5/02	80	18	4,490	open
	6/21/02	81	41.5	2,580	open
	7/2/02	81	38	9,690	open
	7/26/02	81	2.3	2,230	open
	8/5/02	80	4.4	6,160	open
	9/10/02	80	5.5	2,410	open
	10/2/02	80	3.5	1,777	open
	11/6/02	82	4.5	920	open
	12/5/02	90	7.0	420	open
	1/8/03	92	4.0	1,805	open
	1/24/03	95	5.0	2,720	open
	3/4/03	90	4.0	1,390	open
	3/17/03	93	1.0	1,300	open
	4/3/03	115	2.3	1,090	open
	4/14/03	116	--	1,050	open
	5/7/03	117	1.8	610	open
5/15/03	119	2.7	2,100	open	
5/27/03	117	2.0	1,850	open	
6/13/03	118	2.0	1,800	open	
6/23/03	118	--	--	open	
7/2/03	119	17*	1,550	open	
7/11/03	118	2.2	--	open	
8/7/03	117	2.6	1,550	open	
8/15/03	117	2.8	630	open	
8/26/03	122	3.7	465	open	

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Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
-->VES-4	9/3/03	--	--	25	closed
	10/2/03	117	7.5	2,550	open
	10/7/03	116	17	15	close
	10/15/03	117	30	75	closed
	10/21/03	117	28	50	closed
	11/17/03	86	3.0	70	closed
	12/10/03	92	3.0	2,850	open
	12/23/03	95	0.5	2,300	open
	1/7/04	98	1.0	46,000	open
	1/23/04	82	0.65	12,000	open
	1/30/04	81	*	--	open
	2/11/04	62	0.45	4,770	open
	3/3/04	47	0.93	7,010	open
	3/3/04	150	2.2	4,270	open
	3/10/04	146	1.6	65	open
	3/24/04	74	0.7	3,500	open
	4/2/04	81	0.9	120	open
	4/12/04	78	5.5	170	open
	4/27/04	75	2.1	60	open
	5/6/04	70	2.8	1,740	open
	5/17/04	70	--	1,120	open
	5/27/04	70	1.1	2,560	open
	6/10/04	80	*	4,300	open
	6/16/04	84	1.0	1,840	open
	7/6/04	70	1.3	3,150	open
	7/7/04	72	1.0	4,880	open
	7/8/04	74	1.2	3,550	open
	7/28/04	67	1.1	1,615	open
	8/12/04	62	2.2	3,160	open
	8/17/04	63	1.1	55	open
	8/25/04	62	1.6	1,310	open
	9/16/04	39	1.7	2,630	open
	9/27/04	--	1.6	1,920	open
	10/11/04	34	1.2	2,220	open
	11/1/04	58	0.6	870	open
	11/4/04	38	--	750	open
	12/6/04	42	0.9	1,250	open
	12/22/04	49	0.6	50	open
	12/22/04	70	0.3	185	open
	12/22/04	89	0.6	310	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

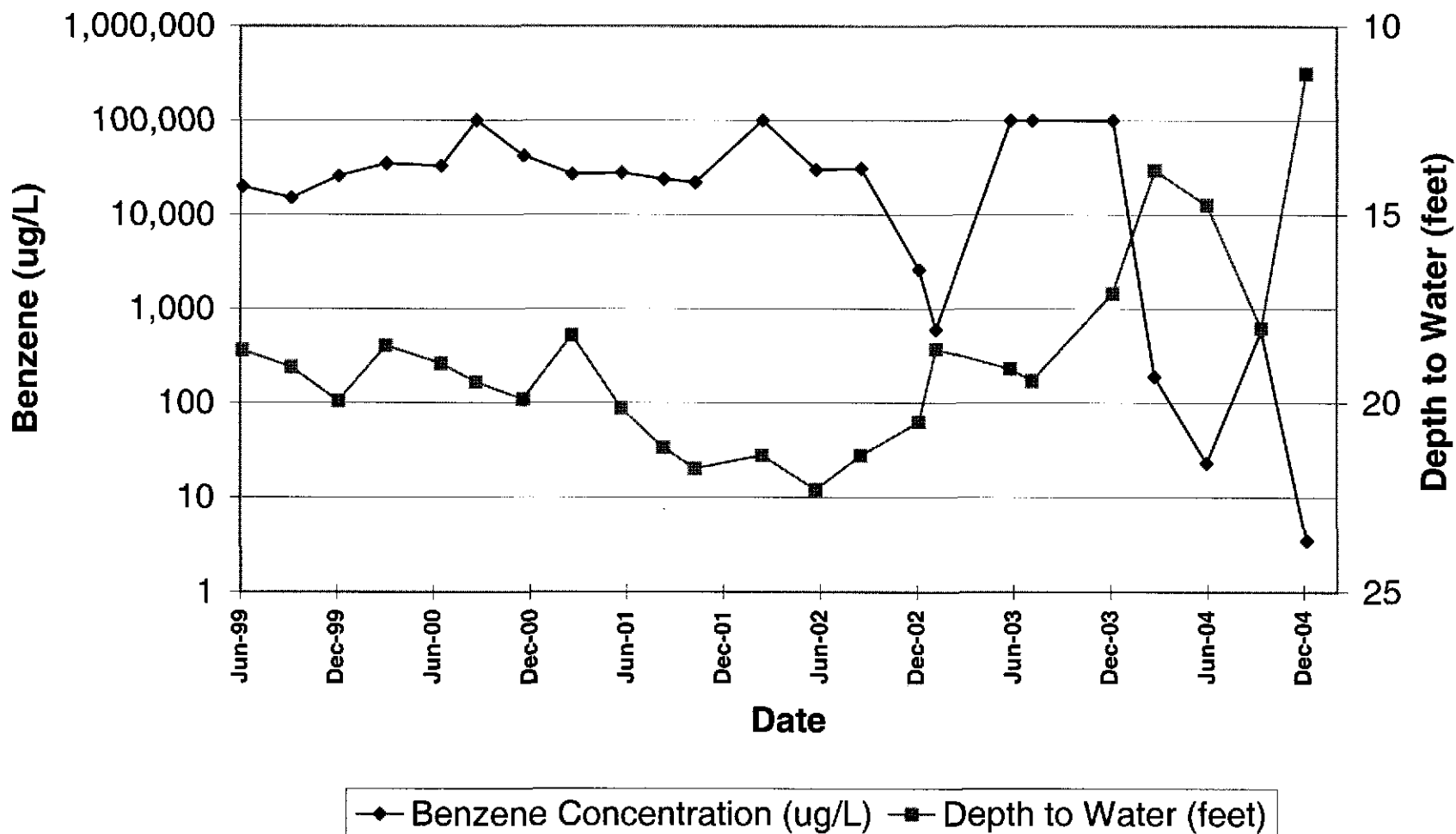
** = Well seal cracked, allowing ambient air to short-circuit vapor extraction. Well seal replaced.

APPENDIX A

Benzene Concentration and Depth to Water versus Time Trend Graphs

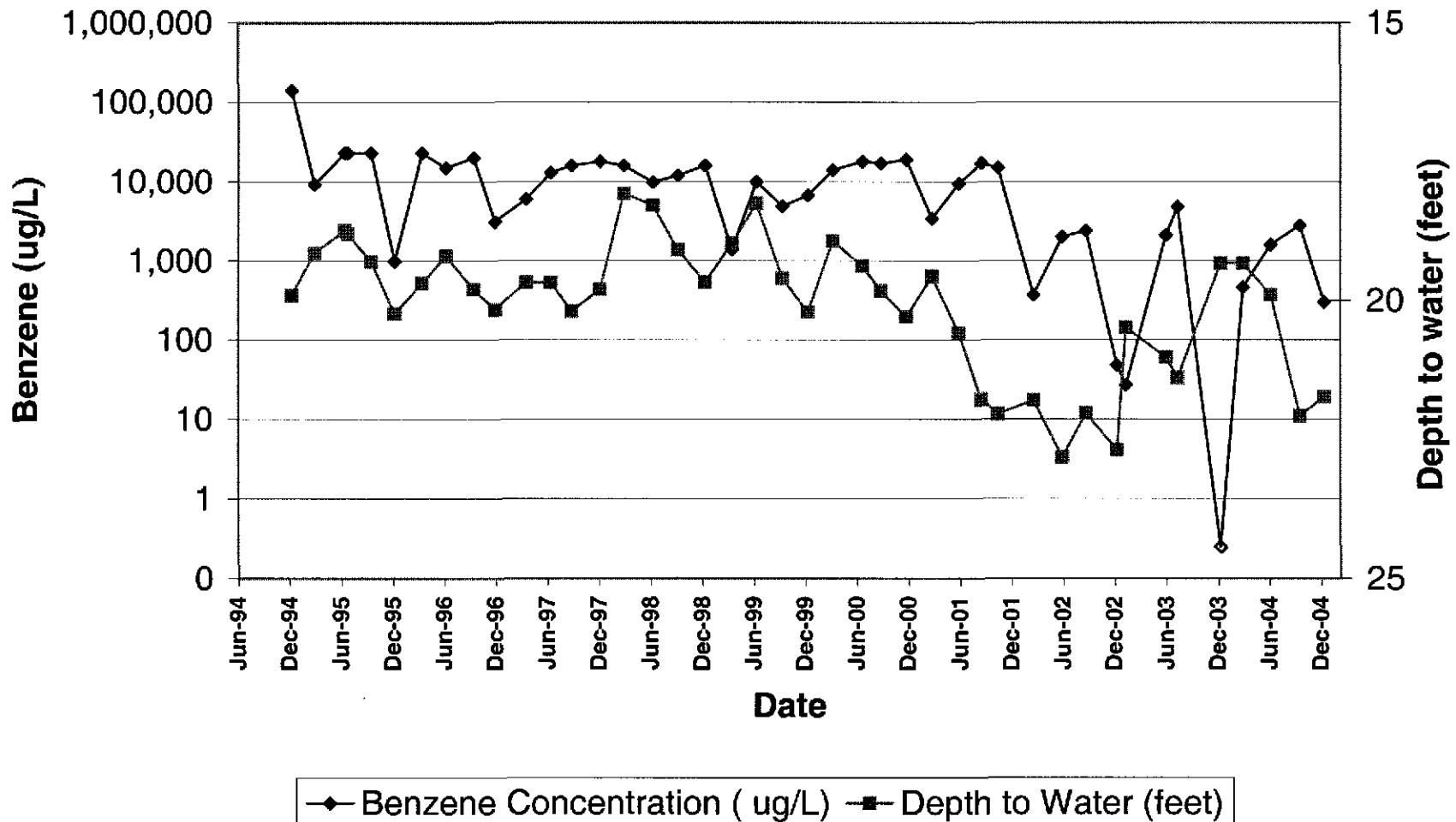
MW-1: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



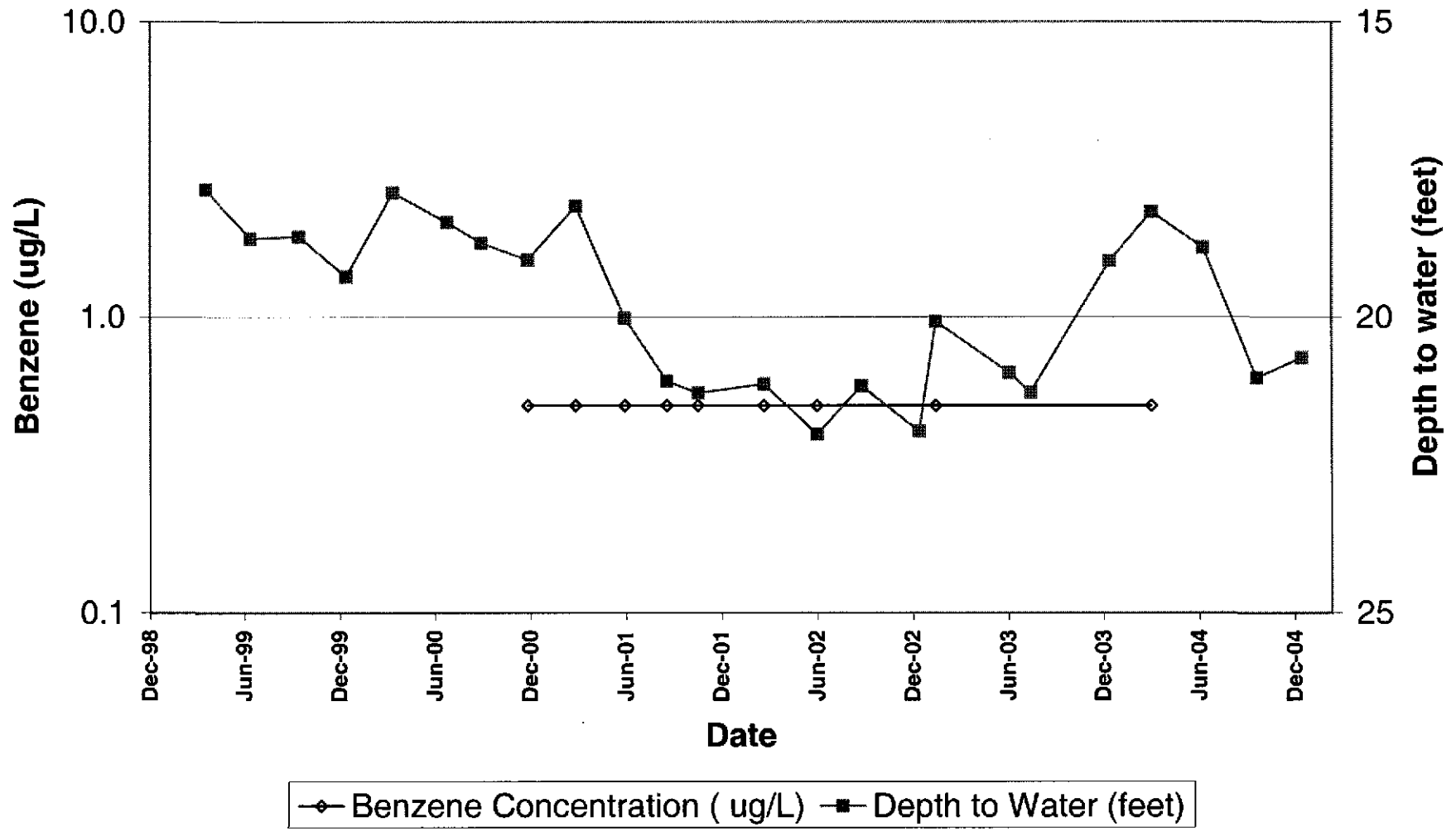
MW-2: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



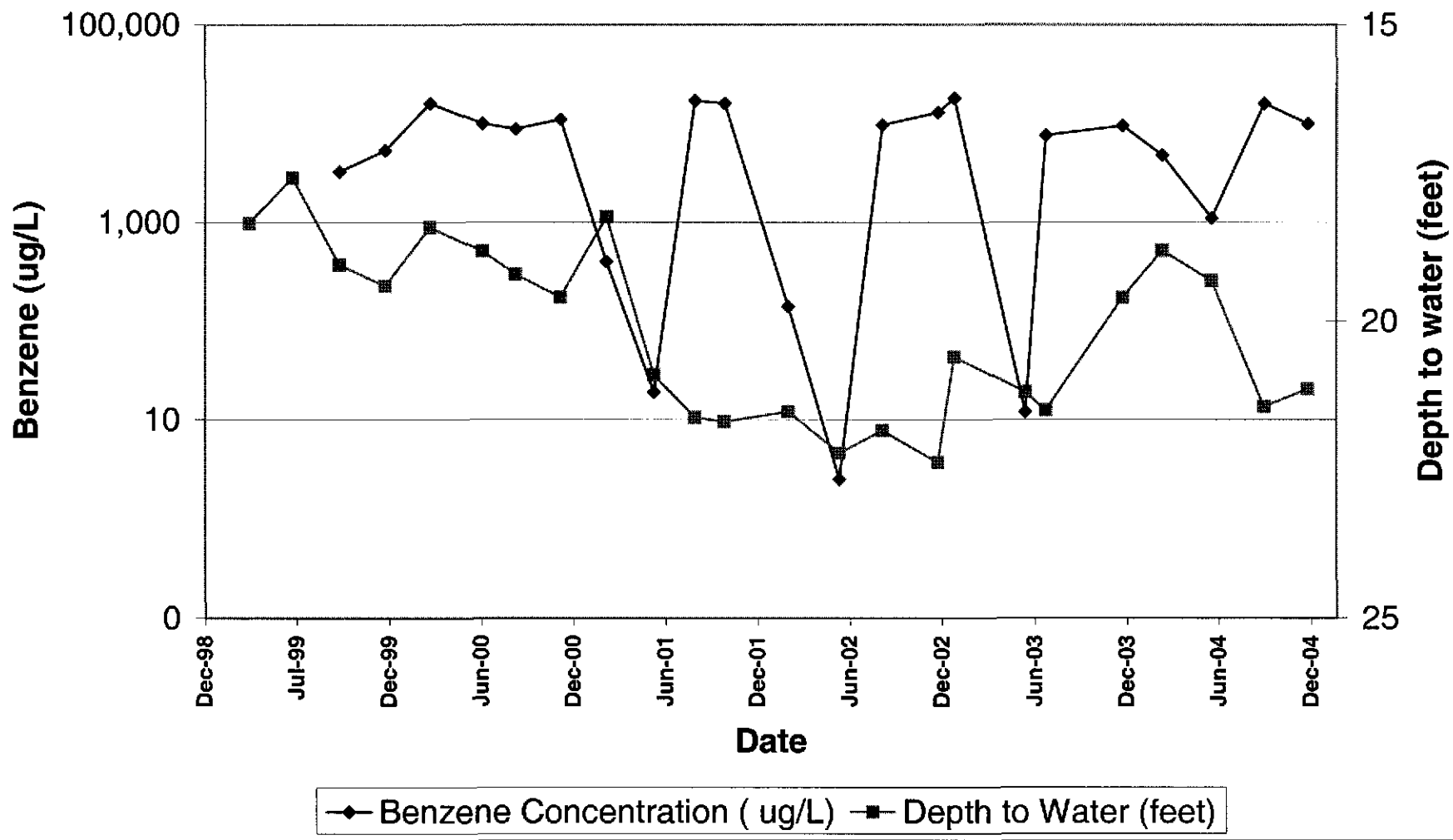
MW-3: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



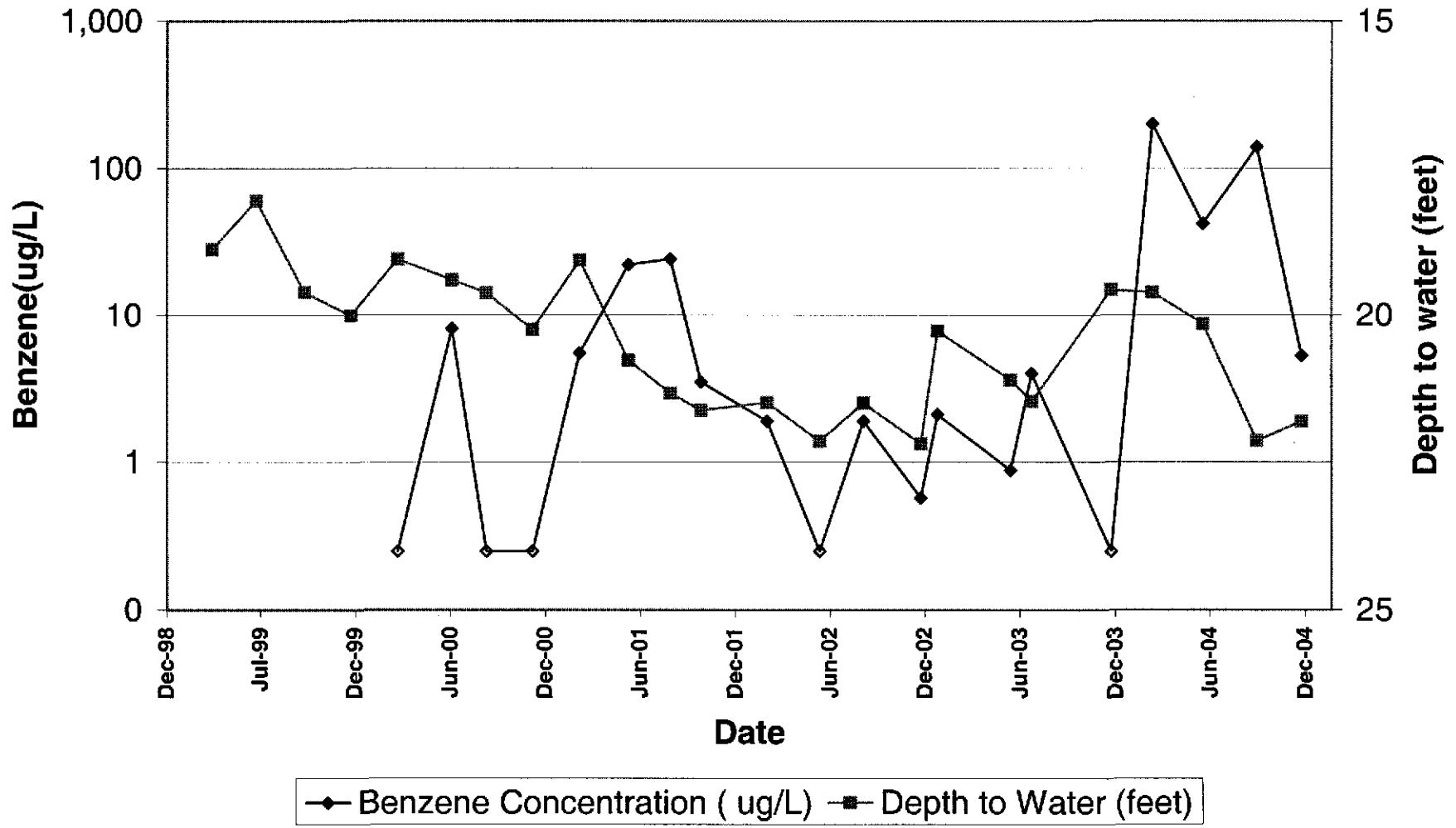
MW-4: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



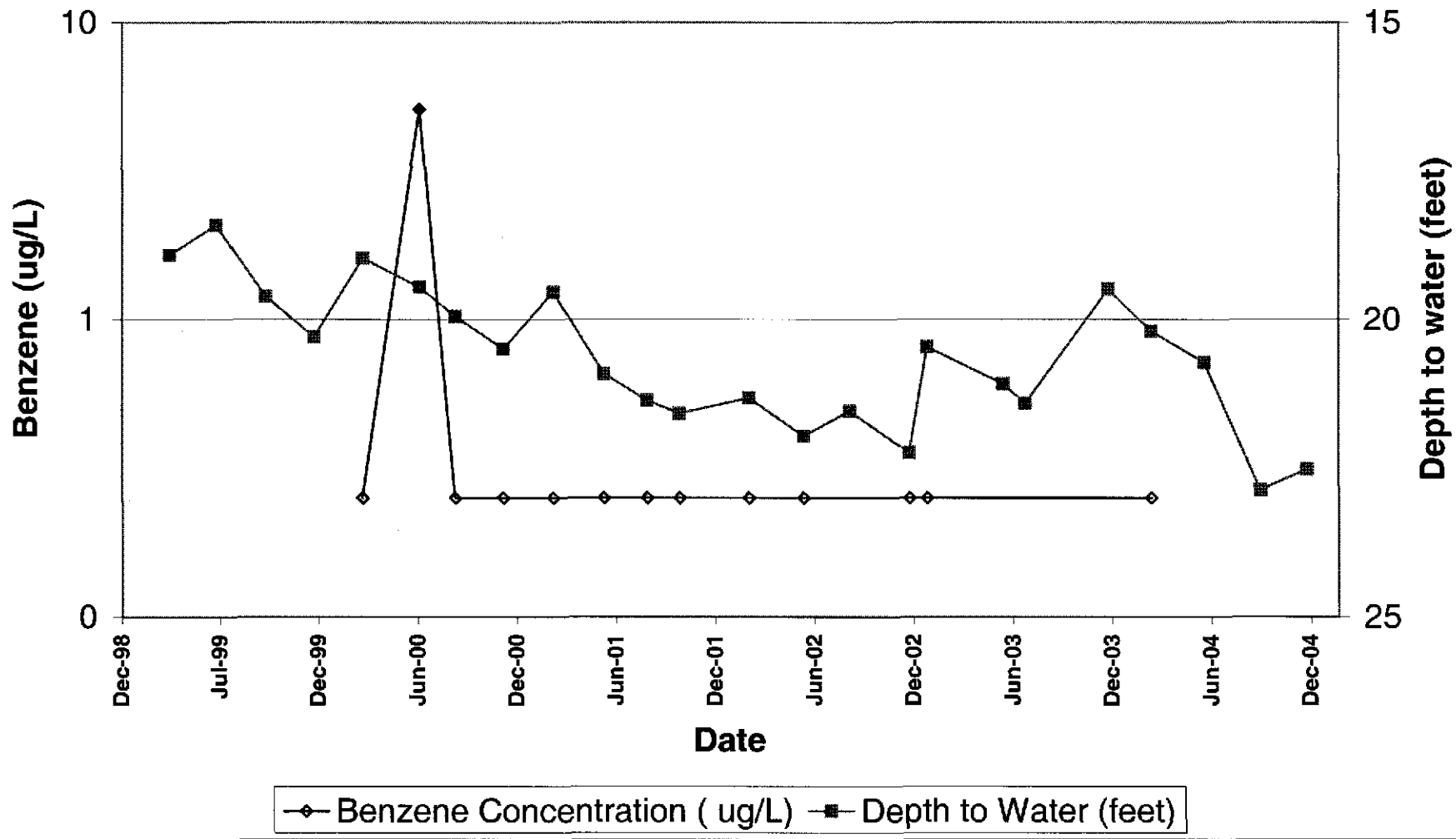
MW-5: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



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

Allright Parking, 1432 Harrison Street, Oakland, California



APPENDIX B

Groundwater Monitoring Field Data Sheets

WELL DEPTH MEASUREMENTS **COPY**

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-1	8:55		11.25			
MW-2	4:00		21.74			
MW-3	3:40		20.69			
MW-4	3:55		21.15			
MW-5	3:45		21.81			
MW-6	3:50		22.53			

Project Name: Borsuk
 Measured By: P. Miller

Project Number: MMH 540-0188
 Date: 12-22-04

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: SN	Well ID: MW-1
Project Number: 540-0188	Date: 12-22-04	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 4" pvc
		Technician(s): SB
Initial Depth to Water: 11.25	Total Well Depth: 21.60	Water Column Height: 10.35
Volume/ft: 0.65	1 Casing Volume: 6.72	3 Casing Volumes: 20.18
Purging Device: 4" pvc bailer	Did Well Dewater?: Yes	Total Gallons Purged: 5
Start Purge Time: 9:05	Stop Purge Time:	Total Time:

Casing Volume = Water column height x Volume/ft

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
9:10	7				dewatered - 5 gallons extracted

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-1	12-22-04	9:30	300a	MC1	TPH₃ BTEX MTBE	8015/8020 3260

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: SN	Well ID: MW-2
Project Number: 540-0188	Date: 12-22-04	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SB
Initial Depth to Water: 21.74	Total Well Depth: 25.40	Water Column Height: 3.66
Volume/ft: 0.16	1 Casing Volume: 0.58	3 Casing Volumes: 1.75
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 1.75
Start Purge Time: 5:55	Stop Purge Time: 6:24	Total Time: 29 mins

Casing Volume = Water column height x Volume/ft.

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
6:05	1.75	18.5	6.81	1045	very slow recharge
6:15	1.00	18.7	6.88	970	
6:25	1.75	18.7	6.93	952	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-2	12-22-04	6:30	300a	MC1	TPH₃ BTEX MTBE	8015/8020 3260

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: SN	Well ID: MW-4
Project Number: 540-0188	Date: 12-22-04	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SL
Initial Depth to Water: 21.15	Total Well Depth: 24.50	Water Column Height: 3.35
Volume/ft: 0.16	1 Casing Volume: 0.53	3 Casing Volumes: 1.59
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 1.5
Start Purge Time: 4:10	Stop Purge Time: 4:24	Total Time: 14 mins

Casing Volume = Water column height x Volume/ft.

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
4:15	0.50	18.1	6.85	720	
4:20	1.00	18.3	6.99	852	
4:25	1.50	18.2	6.93	931	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	12-22-04	4:30	300a	MC1	TPH₃ BTEX MTBE	8015/8020 3260

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: SN	Well ID: MW-5
Project Number: 540-0188	Date: 12-22-04	Well Yield:
Site Address: 1432 Harrison St. Oakland, Ca	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SA
Initial Depth to Water: 21.81	Total Well Depth: 28.34	Water Column Height: 6.53
Volume/ft: 0.16	1 Casing Volume: 1.04	3 Casing Volumes: 3.12
Purging Device: disposable bailer	Did Well Dewater?: NO	Total Gallons Purged: 3
Start Purge Time: 4:55	Stop Purge Time: 5:24	Total Time: 29 mins

Casing Volume = Water column height x Volume/ft.

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
5:05	1	18.9	7.05	825	slow recharge
5:15	2	19.1	7.17	979	
5:25	3	18.8	7.15	950	

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

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-5	12-22-04	5:30	300a	MC1	TPH₃ BTEX MTBE	8015/8020 8260

APPENDIX C

Analytical Results for Groundwater Sampling



McC Campbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188; Borsuk	Date Sampled: 12/22/04
		Date Received: 12/27/04
	Client Contact: Matt Meyers	Date Reported: 01/04/05
	Client P.O.:	Date Completed: 01/04/05

WorkOrder: 0412502

January 04, 2005

Dear Matt:

Enclosed are:

- 1). the results of 4 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. McC Campbell 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



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0412502

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 14469		Spiked Sample ID: 0412516-001A				
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) ^E	ND	60	98.6	97.9	0.691	94	95.2	1.36	70 - 130	70 - 130
MTBE	ND	10	101	91.9	9.07	105	87.9	17.8	70 - 130	70 - 130
Benzene	ND	10	103	108	4.83	110	94.3	15.8	70 - 130	70 - 130
Toluene	ND	10	102	107	4.60	103	88.4	15.4	70 - 130	70 - 130
Ethylbenzene	ND	10	105	107	1.83	111	99.2	11.0	70 - 130	70 - 130
Xylenes	ND	30	91.7	95.3	3.92	103	96	7.36	70 - 130	70 - 130
%SS:	98	10	110	113	2.23	113	101	11.7	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.

^E 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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0412502

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 14464			Spiked Sample ID: 0412491-001B		
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
Methyl-t-butyl ether (MTBE)	ND	10	88.9	99.1	10.8	90.6	90.3	0.279	70 - 130	70 - 130
%SS1:	105	10	100	103	3.58	99	98	1.38	70 - 130	70 - 130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

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

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

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

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

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

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



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0412502

EPA Method: SW8260B		Extraction: SW5030B			BatchID: 14485		Spiked Sample ID: 0412516-005B			
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Methyl-t-butyl ether (MTBE)	ND	10	102	93.6	8.40	96.7	93.6	3.25	70 - 130	70 - 130
%SS1:	115	10	103	98	5.35	102	96	5.95	70 - 130	70 - 130

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

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

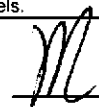
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

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

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

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

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

 QA/QC Officer

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0412502

ClientID: CETE

Report to:		Bill to:	Requested TAT:
Matt Meyers	TEL: (510) 420-0700	Accounts Payable	5 days
Cambria Env. Technology	FAX: (510) 420-9170	Cambria Env. Technology	
5900 Hollis St, Suite A	ProjectNo: #540-0188; Borsuk	5900 Hollis St, Ste. A	<i>Date Received:</i> 12/27/2004
Emeryville, CA 94608	PO:	Emeryville, CA 94608	<i>Date Printed:</i> 12/27/2004

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	
0412502-001	MW-1	Water	12/22/04 9:30:00	<input type="checkbox"/>	A	B	A													
0412502-002	MW-2	Water	12/22/04 6:30:00	<input type="checkbox"/>	A															
0412502-003	MW-4	Water	12/22/04 4:30:00	<input type="checkbox"/>	A	B														
0412502-004	MW-5	Water	12/22/47 5:30:00	<input type="checkbox"/>	A															

Test Legend:

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

Prepared by: _____

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 D

Analytical Results for SVE System Operation



McC Campbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188-61; BORSUK	Date Sampled: 10/11/04
		Date Received: 10/12/04
	Client Contact: Gretchen Hellmann	Date Reported: 10/15/04
	Client P.O.:	Date Completed: 10/15/04

WorkOrder: 0410146

October 15, 2004

Dear Gretchen:

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. McC Campbell 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



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: A

WorkOrder: 0410146

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 13537			Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	N/A	60	N/A	N/A	N/A	94.3	94.6	0.371	70	130
MTBE	N/A	10	N/A	N/A	N/A	98.1	95.8	2.37	70	130
Benzene	N/A	10	N/A	N/A	N/A	99.4	98.5	0.943	70	130
Toluene	N/A	10	N/A	N/A	N/A	93.3	92	1.46	70	130
Ethylbenzene	N/A	10	N/A	N/A	N/A	96.6	96.4	0.224	70	130
Xylenes	N/A	30	N/A	N/A	N/A	85	85.3	0.391	70	130
%SS:	N/A	10	N/A	N/A	N/A	105	104	1.54	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.



McC Campbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188-61; BORSUK	Date Sampled: 11/04/04
	Client Contact: Subbarao Nagulapaty	Date Received: 11/05/04
	Client P.O.:	Date Reported: 11/11/04
		Date Completed: 11/11/04

WorkOrder: 0411117

November 11, 2004

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. McC Campbell 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



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Air

QC Matrix: Water

WorkOrder: 0411117

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 13869			Spiked Sample ID: 0411109-022A			
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	94.2	94	0.210	100	99.7	0.675	70	130
MTBE	ND	10	106	99.4	6.67	109	110	0.730	70	130
Benzene	ND	10	106	99	6.76	108	111	3.25	70	130
Toluene	ND	10	98.8	89	10.5	106	107	1.31	70	130
Ethylbenzene	ND	10	99.8	98.3	1.47	103	107	3.77	70	130
Xylenes	ND	30	86	86.3	0.387	90.7	95.3	5.02	70	130
%SS:	98.0	10	112	110	1.89	109	109	0	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.

QA/QC Officer



McC Campbell 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: #540-0188-61; BORSUK	Date Sampled: 12/06/04
		Date Received: 12/07/04
	Client Contact: Subbarao Nagulapaty	Date Reported: 12/13/04
	Client P.O.:	Date Completed: 12/13/04

WorkOrder: 0412135

December 13, 2004

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. McC Campbell 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



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Air

QC Matrix: Water

WorkOrder: 0412135

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 14183 Spiked Sample ID: 0412148-004D										
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	103	104	0.512	102	103	1.22	70 - 130	70 - 130
MTBE	ND	10	119	114	4.30	106	111	3.78	70 - 130	70 - 130
Benzene	ND	10	110	110	0	108	109	1.68	70 - 130	70 - 130
Toluene	ND	10	104	105	1.51	102	104	1.18	70 - 130	70 - 130
Ethylbenzene	ND	10	107	108	1.19	105	106	1.51	70 - 130	70 - 130
Xylenes	ND	30	95.7	95.3	0.349	91.3	95.3	4.29	70 - 130	70 - 130
%SS:	102	10	105	107	2.09	105	108	2.18	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.

0412135

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME:

RUSH 24 HOUR 48 HOUR 5 DAY

EDF Required? Yes No

Report To: 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: *[Signature]*

Analysis Request											Other	Comments				
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	System	12/4/04	5pm	1	Tb		X									

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

Relinquished By: <i>[Signature]</i>	Date: 12/3/04	Time: 6pm	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 12/7/04	Time: 11:55	Received By: <i>[Signature]</i> 298
Relinquished By: <i>[Signature]</i> 298	Date: 12/7/04	Time: 17:00	Received By: <i>[Signature]</i>

Remarks: Report in ppm(v); Reporting Limit is 10 ppm(v).
Use 20 mL injection volume.
Please email results.

APPENDIX E

Geotracker Electronic Delivery Confirmations

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

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

Submittal Title: 4th Qtr 2004 GW Depth Data, 1432 Harrison,
Oakland

Submittal Date/Time: 1/18/2005 11:50:58 AM

**Confirmation
Number:** 9867523014

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Confirmation Number: 3428135693
Date/Time of Submittal: 1/18/2005 11:57:04 AM
Facility Global ID: T0600100682
Facility Name: A BACHARACH TR & B BORSUK
Submittal Title: 4th Qtr 2004 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
3428135693	4th Qtr 2004 GW Analytical Data	Q4 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Matt Meyers	1/18/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	4
# FIELD POINTS WITH DETECTIONS	4
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	3
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	SW8021F,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
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%	N
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

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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CONTACT SITE ADMINISTRATOR.