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TRANSMITTAL

DATE: 10/20/2011 REFERENCE NO.: 540188

PROJECT NAME: 1432 Harrison St., Oakland

TO: Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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QUANTITY	DESCRIPTION
1	Second 2011 Semi-Annual Groundwater Monitoring Report

As Requested For Review and Comment
 For Your Use

COMMENTS:

If you have any questions regarding the content of this document, please contact Robert Foss at (510) 420-3348.

Copy to: Est. of A Bacharach/Barbara Jean Borsuk c/o Mr. Mark Borsuk

Completed by: Robert Foss
[Please Print]

Signed: 

Filing: **Correspondence File**

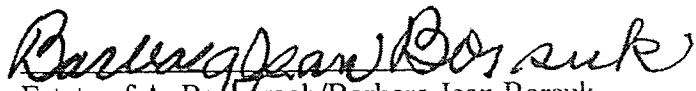
With respect to:

Groundwater Monitoring Report – SECOND 2011 SEMI-ANNUAL

Dated 10/20/11

Fuel Leak Case No. **RO0000266**

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.


Estate of A. Bacharach/Barbara Jean Borsuk

10/19/11
Date



SECOND 2011 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

**ALLRIGHT PARKING
1432 HARRISON STREET
OAKLAND, CALIFORNIA**

FUEL LEAK CASE NO. RO0000266

**OCTOBER 20, 2011
REF. NO. 540188 (13)**

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

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1.0 INTRODUCTION

On behalf of the Estate of A. Bacharach/Barbara Jean Borsuk, Conestoga-Rovers & Associates (CRA) has prepared this *Second 2011 Semi-Annual Groundwater Monitoring Report* for the site located at 1432 Harrison Street in Oakland, California (Figure 1). Presented in this report are groundwater monitoring activities and analytical results, along with activities anticipated during the fourth quarter of 2011 and for the first 2012 semi-annual groundwater monitoring and sampling event. Work is performed under the regulatory oversight of Alameda County Environmental Health (ACEH).

Figure 2 presents groundwater elevation contours calculated from depth to water measurements and reported hydrocarbon concentrations from the September 23, 2011 field activities. Table 1 provides well construction details. Table 2 presents recent and historical depth to water measurements, analytical data and light non-aqueous phase liquid (LNAPL, previously referred to as SPH) observations and measurements. Appendix A contains field data sheets of this sampling event. Appendix B contains CRA's *Standard Field Procedures for Groundwater Monitoring and Sampling*. Appendix C contains the laboratory analytical report of sample results and Appendix D contains graphs of benzene concentrations and depth to water vs. time.

1.1 SITE INFORMATION

Site Address	1432 Harrison Street, Oakland
Site Use	Parking Facility
Client and Contact	The Estate of A. Bacharach/ Barbara Jean Borsuk Contact: Mr. Mark Borsuk, Esq.
Consultant and Contact Person	CRA, Robert Foss, P.G.
Lead Agency and Contact Person	ACEH, Jerry Wickham, P.G.

2.0 SITE ACTIVITIES AND RESULTS

2.1 CURRENT MONITORING/SAMPLING EVENT ACTIVITIES

2.1.1 FIELD ACTIVITIES

CRA coordinated with Muskan Environmental Sampling (MES) to conduct monitoring and sampling activities on September 23, 2011. MES measured depth to water and inspected each well for the presence of LNAPL. LNAPL was observed in the well casing of MW-2 at a measured thickness of 0.19 feet. Groundwater samples were collected from wells MW-1, MW-4, MW-5 and MW-7. Well MW-1 was redeveloped on September 24, 2010, removing a large volume of silt from the well casing. Prior to redevelopment, the well had contained so much silt that no measurable thickness of groundwater could be measured in the casing from September 2009 through September 2010. Since redevelopment, groundwater has been measured and sampled in February and September of 2011. However, since redevelopment of MW-1, calculated groundwater elevations in MW-1 have been anomalously low relative to nearby wells. Consequently, this well was not used in groundwater elevation contouring during the first 2011 groundwater monitoring event and the calculated groundwater elevation from the September 2011 measurement is, again, not used to contour groundwater elevations across the site. Groundwater monitoring field data sheets are included in Appendix A. Field activities were conducted in accordance with CRA's *Standard Field Procedures for Groundwater Monitoring and Sampling* included as Appendix B.

Micropurge sampling protocols were implemented during the third quarter of 2010. These procedures are documented, as referenced above, in Appendix B. Prior to sampling, groundwater levels were measured and each well was purged by placing the intake tube of a clean peristaltic pump approximately 1 foot below the initial water level. Depth of groundwater was again measured prior to low-flow purging, during purging, at termination of purging, and immediately prior to sample collection. Temperature, pH, specific conductance, oxygen reduction potential (ORP) and dissolved oxygen (DO) were measured initially and at regular volume intervals. Well purging continued until consecutive pH, specific conductance and temperature measurements were relatively stable. Field measurements, purge volumes and sample collection data were recorded on field sampling data forms presented in Appendix A.

Groundwater samples were collected from each well using a clean peristaltic pump. The samples were collected in 40-milliliter (mL) glass volatile organic analysis (VOA) vials and 1-liter amber glass containers supplied by McCampbell Analytical Laboratory, Inc. (McCampbell) of Pittsburg, California. Sample containers were labeled, sealed in a

plastic bag, placed on ice in a chilled cooler and delivered to McCampbell, a State-certified laboratory. Field water quality measurements, purge volumes, and sample collection data were recorded on field sampling data sheets. The chain-of-custody (COC) used for this monitoring event is provided in Appendix C.

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

2.1.2 SAMPLE ANALYSIS

Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by modified EPA Method 8015/8021. MTBE was to be confirmed by EPA Method 8260 confirmation if detected by Method 8015/8021. All analyses were performed by McCampbell. The laboratory analytical report is included as Appendix C. Hydrocarbon concentrations are summarized on Figure 2 and presented in Table 2. The analytical data has been uploaded to the GeoTracker database.

2.2 CURRENT MONITORING/SAMPLING CONDITIONS

Groundwater Flow Direction	North-Northeast
Hydraulic Gradient	0.003
Range of Depth to Water Measurements Below Top of Casing	18.87 to 20.24 feet
Presence of Measureable Light Non-Aqueous Phase Liquid (LNAPL)?	Yes, Offsite well MW-2

2.2.1 GROUNDWATER FLOW DIRECTION

Based on depth-to-water measurements collected September 23, 2011, the calculated flow direction of groundwater beneath the site is toward the north-northeast at an

approximate gradient of 0.003. This flow direction and gradient are generally consistent with conditions observed during previous monitoring events. Groundwater elevation data is summarized on Figure 2 and presented in Table 2.

2.2.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER

Hydrocarbon concentrations were detected in wells MW-1, MW-4 and MW-7, and are assumed to be at saturation levels in well MW-2 based on the presence of LNAPL. TPHg and benzene were detected in wells MW-1, MW-4 and MW-7 at a maximum TPHg concentration of 23,000 micrograms per liter ($\mu\text{g/L}$) in well MW-7 and at a maximum benzene concentration of 2,600 $\mu\text{g/L}$ in well MW-1. Toluene, ethylbenzene and xylenes were detected in wells MW-1 and MW-7 at varying concentrations. MTBE was not reported above laboratory detection limits in any of the wells. However, the minimum reporting limit of MTBE was significantly elevated to 250 $\mu\text{g/L}$ in well MW-1 and to 500 $\mu\text{g/L}$ in MW-7 due to high concentrations of other constituents. TPHg and BTEX compounds were consistent with historical concentrations in wells MW-1 and appear to fluctuate relative to groundwater elevation, exhibiting higher concentrations as the water table rises. MW-4 continues to exhibit an overall decreasing trend that began in 2004-2005, coinciding with the completion of Air Sparge/Soil Vapor Extraction remediation activities. This is visually apparent on the MW-4 benzene vs. time graph in Appendix D. Reported hydrocarbon concentrations in well MW-5 continued their unexpected and dramatic reduction to below reporting limits for all analyzed constituents in September 2011, indicating that the February 2011 sample results were not anomalous. Table 2 documents dissolved hydrocarbon concentrations in the wells and, as stated above, Appendix D contains benzene concentration vs. time trend graphs for wells MW-1 through MW-6.

2.3 PROPOSED ACTIVITIES FOR THE REMAINDER OF 2011 AND THE FIRST HALF OF 2012

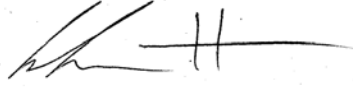
2.3.1 SUB-SLAB SOIL VAPOR PROBE INSTALLATION AND SAMPLING

CRA has completed the soil boring and well installation activities of the approved additional site characterization scope of work. The installation of four soil vapor probes within the basement of 1445 Harrison Street has yet to be completed due to ongoing negotiations regarding access with the property owners of 1445 Harrison Street. Once the probes have been installed, sampled and analytical results are received and evaluated, CRA will complete and submit the additional offsite characterization report.

2.3.2 MONITORING ACTIVITIES

The first half 2012 semi-annual groundwater monitoring and sampling event will be scheduled for March 2012. All seven wells will be gauged during field activities for this event. Samples will be collected from wells MW-1, MW-2, MW-4, MW-5 and MW-7. Sampling of wells MW-3 and MW-6 will be permanently eliminated due to consistently non-detected analytical results, unless instructed otherwise by the ACEH case manager. MES will gauge depth to water and check each well for the presence of LNAPL. Groundwater samples will be collected from the five wells listed above for analysis by EPA Method 8015/8021. If LNAPL is present in well MW-2, it will be bailed from the well and stored onsite in a double-walled container for removal and recycling. Groundwater monitoring and sampling results will be uploaded to the State's GeoTracker database. CRA will summarize groundwater monitoring activities and results in a document titled *First Half 2012 Semi-Annual Groundwater Monitoring Report*.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



Calvin Hee



Robert Foss, P.G. # 7445



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FIGURES



Allright Parking
1432 Harrison Street
Oakland, California



Vicinity Map

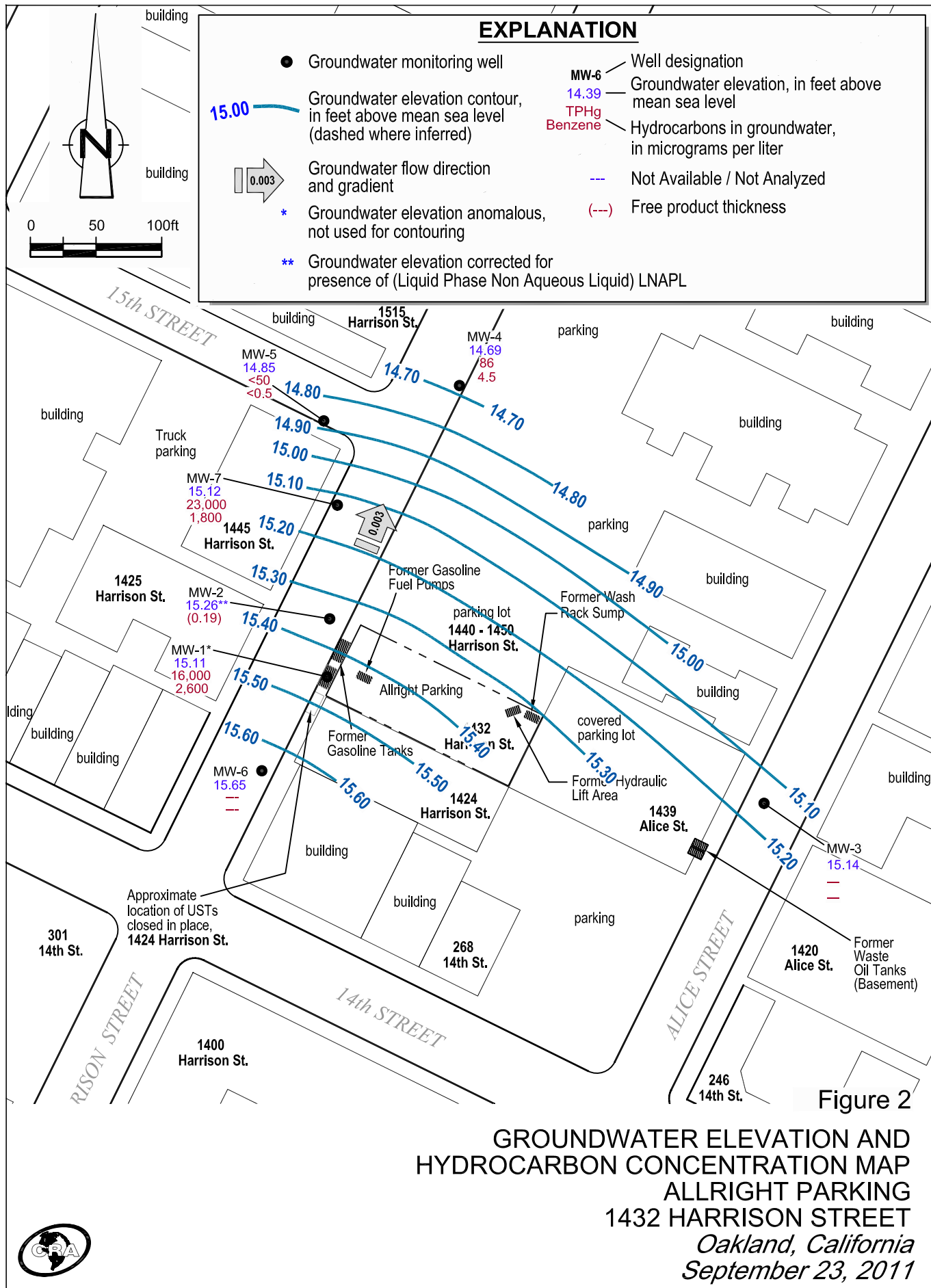


Figure 2

**GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
ALLRIGHT PARKING
1432 HARRISON STREET
Oakland, California
September 23, 2011**



TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA

<i>Well No.</i>	<i>Installation Date</i>	<i>Total Depth (ft-bgs)</i>	<i>Boring Diameter (inch)</i>	<i>Well Diameter (inch)</i>	<i>Screen Size (inch)</i>	<i>Screened Interval (ft-bgs)</i>	<i>Sand Pack Interval (ft-bgs)</i>	<i>Surface Seal (ft-bgs)</i>	<i>TOC Elevation (ft-msl)</i>
MW-1	1/12/1994	27	12	4	0.020	16-26.5	14.5-27	0-14.5	35.37
MW-2	7/30/1994	26		2	0.010	11-26	9-26	0-9	35.21
MW-3	7/30/1994	25		2	0.010	15-25	13-25	0-13	34.01
MW-4	10/2/1996	25	8	2	0.010	15-25	13-25	0-13	33.75
MW-5	10/2/1996	30	8	2	0.010	14-29	12-30	0-12	34.63
MW-6	10/2/1996	30.5	8	2	0.010	14-29	12-30	0-12	35.89
MW-7	5/31/2011	25	8	2	0.010	15-25	14-25	0-12	34.72
VES-1 (VE)	7/23/1999	30	8	3	0.020	5-20	4.5-20	0-5	--
VES-1 (AS)				1	0.020	28-30	27.5-30	0-27.5	--
VES-2 (VE)	7/22/1999	29.5	8	3	0.020	5-20	4-20	0-4	--
VES-2 (AS)				1	0.020	27.5-29.5	27-29.5	0-27	--
VES-3 (VE)	7/23/1999	30	8	3	0.020	5-20	4-20	0-4	--
VES-3 (AS)				1	0.020	28-30	25-30	0-25	--
VES-4 (VE)	7/23/1999	29	8	3	0.020	5-20	4-20	0-4	--
VES-4 (AS)				1	0.020	27-29	26.5-28.5	0-26.5	--
SV-3	8/31/2009	5.5	3	1/4	probe	4.8-5.3	4.5-5.5	0.5-4.5	--

TABLE 1
WELL CONSTRUCTION DETAILS
ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA

SV-4	8/31/2009	5.75	3	1/4	probe	4.8-5.3	4.5-5.75	0.5-4.5	--
SV-5	8/31/2009	5.5	3	1/4	probe	4.8-5.3	4.5-5.5	0.5-4.5	--
SV-6	8/31/2009	5.5	3	1/4	probe	4.8-5.3	4.5-5.5	0.5-4.5	--
SV-7	8/31/2009	5.75	3	1/4	probe	4.8-5.3	4.5-5.75	0.5-4.5	--
SV-8	8/31/2009	5.5	3	1/4	probe	4.8-5.3	4.5-5.5	0.5-4.5	--

Notes:

ft-bgs	Feet below ground surface
ft-msl	Feet above mean sea level
--	Not surveyed
VE	Vapor extraction
AS	Air sparge
SV	Soil Vapor Well

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL DATA
ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene Xylenes		MTBE	Notes
								($\mu\text{g/L}$)			
Monitoring Well Sample Results:											
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 ^{Field}	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	Sheen ^{Lab}	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	Sheen ^{Field}	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
34.96##	6/9/2005	17.80	--	17.16	--	--	--	--	--	--	+
	9/9/2005	18.26	--	16.70	--	--	--	--	--	--	+
	12/20/2005	18.68	--	16.28	--	--	--	--	--	--	+
	3/26/2006	16.96	--	18.00	23,000	270	400	65	4,400	<50	a
	6/23/2006	17.55	--	17.41	30,000	340	680	170	6,900	<500	a,m
	9/7/2006	18.53	--	16.43	34,000	540	630	190	7,000	<500	a
	12/29/2006	19.43	Sheen ^{Field}	15.53	20,000	550	55	130	4,700	<100* / <0.5***	a,m
	3/21/2007	18.92	Sheen ^{Field}	16.04	23,000	910	210	140	5,900	<250*	a
	6/7/2007	19.22	Sheen ^{Field}	15.74	24,000	680	61	190	4,300	<100*	a,b
	9/28/2007	20.19	--	14.77	--	--	--	--	--	--	+
	12/9/2007	20.40	--	14.56	--	--	--	--	--	--	+
	3/3/2008	19.16	Sheen ^{Lab}	15.80	10,000	510	28	<10	1,700	<2.5***	a,b,m,l

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL DATA
ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
MW-1 cont.	6/4/2008	20.05	--	14.91	--	--	--	--	--	--	--
	9/9/2008	20.40	--	14.56	--	--	--	--	--	--	--
	12/5/2008	20.42	--	14.54	--	--	--	--	--	--	--
	3/2/2009	20.39	--	14.57	--	--	--	--	--	--	--
	9/15/2009	Well Dry	--	--	--	--	--	--	--	--	--
	3/1/2010	Well Dry	--	--	--	--	--	--	--	--	--
	9/7/2010	Well Dry	--	--	--	--	--	--	--	--	--
	2/18/2011	20.31	--	14.65	15,000	1,600	25	<10	1,400	<5.0***	a,l
	9/23/2011	19.85	--	15.11	16,000	2,600	65	350	1,400	<250	a
	MW-2 35.18	8/1/1994	--	--	--	130,000	28,000	35,000	3,000	12,000	--
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
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	
6/9/2005	18.65	--	16.56	240	22	2.7	6.4	27	<10	a	
9/9/2005	19.27	--	15.94	7,800	1,100	170	380	690	<160	a	
12/20/2005	19.70	--	15.51	150	10	1.9	2.8	10	<5.0	a	

TABLE 2

**GROUNDWATER ELEVATION AND ANALYTICAL DATA
ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA**

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes	
												← (µg/L) →
MW-2 cont.	3/26/2006	18.51	--	16.70	2,200	93	19	66	130	<50	a	
	6/23/2006	18.47	--	16.74	8,800	1,600	110	500	480	<500	a,m	
	9/7/2006	18.97	--	16.24	29,000	4,800	280	940	1,000	<500	a	
	12/29/2006	19.76	--	15.45	4,500	720	54	250	480	75 ^{±1} / _{<0.5***}	a	
	3/21/2007	19.59	--	15.62	34,000	9,100	500	890	2,500	<1,100*	a	
	6/7/2007	19.74	Sheen ^{lab}	15.47	46,000	7,100	410	870	2,400	<800*	a,b	
	9/28/2007	20.23	--	14.98	44,000	9,400	630	1,400	3,600	<0.5***	a	
	12/9/2007	20.68	--	14.53	37,000	8,400	550	1,400	4,500	<17***	a,l	
	3/3/2008	20.11	--	15.10	40,000	7,700	490	1,400	4,400	<17***	a,l	
	6/4/2008	20.40	--	14.81	56,000	7,400	600	1,500	4,100	<25***	a,j	
	9/9/2008	20.85	--	14.36	65,000	7,800	510	1,700	4,700	<25***	a,l	
	12/5/2008	← Well Inaccessible →										
	3/2/2009	← Well Inaccessible →										
	9/15/2009	21.22	--	13.99	48,000	6,400	600	1,900	2,800	<2.5***	a,l	
	3/1/2010	21.00	0.22	14.39	← SPH Observed During Purging →							--
	9/7/2010	20.71	0.29	14.73	← SPH Observed During Purging →							--
	2/18/2011	20.68	0.38	14.83	← SPH Observed During Purging →							--
	9/23/2011	20.10	0.19	15.26	← SPH Observed During Purging →							--
	MW-3 33.97	8/1/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
	12/21/1994	18.82	--	15.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	
	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	--	--	--	--	--	--	--	
34.01	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	--	--	--	--	--	--	--	
	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	--	--	--	--	--	--	--	

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GROUNDWATER ELEVATION AND ANALYTICAL DATA
ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA**

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene				MTBE	Notes
						$\mu\text{g/L}$					
	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	--
	6/9/2005	18.00	--	16.01	--	--	--	--	--	--	--
	9/9/2005	18.43	--	15.58	--	--	--	--	--	--	--
	12/20/2005	18.18	--	15.83	--	--	--	--	--	--	--
	3/26/2006	17.42	--	16.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
MW-3 cont.	6/23/2006	17.77	--	16.24	--	--	--	--	--	--	--
	9/7/2006	18.20	--	15.81	--	--	--	--	--	--	--
	12/29/2006	18.49	--	15.52	--	--	--	--	--	--	--
	3/21/2007	18.44	--	15.57	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/7/2007	18.68	--	15.33	--	--	--	--	--	--	--
	9/28/2007	19.19	--	14.82	--	--	--	--	--	--	--
	12/9/2007	19.31	--	14.70	--	--	--	--	--	--	--
	3/3/2008	18.68	--	15.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	6/4/2008	19.11	--	14.90	--	--	--	--	--	--	--
	9/9/2008	19.65	--	14.36	--	--	--	--	--	--	--
	12/5/2008	19.96	--	14.05	--	--	--	--	--	--	--
	3/2/2009	19.19	--	14.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	9/15/2009	19.90	--	14.11	--	--	--	--	--	--	--
	3/1/2010	19.20	--	14.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	9/7/2010	19.43	--	14.58	--	--	--	--	--	--	--
	2/18/2011	18.79	--	15.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	9/23/2011	18.87	--	15.14	--	--	--	--	--	--	--
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

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ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA**

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
MW-4 cont.	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
	6/9/2005	18.11	--	15.64	20,000	6,100	110	460	580	<500	a
	9/9/2005	18.65	--	15.10	17,000	6,400	100	470	730	<250	a
	12/20/2005	19.01	--	14.74	26,000	8,500	160	640	800	<120	a
	3/26/2006	17.84	--	15.91	1,900	700	22	49	85	<50	a
	6/23/2006	17.96	--	15.79	12,000	3,400	130	370	510	260	a
	9/7/2006	18.29	--	15.46	8,600	1,800	100	170	220	<210	a,i
	12/29/2006	18.93	--	14.82	4,200	1,100	120	150	280	<150*/<0.5***	a
	3/21/2007	18.76	--	14.99	550	30	2.0	4.5	5.1	<30*	a
	6/7/2007	18.92	--	14.83	85	4.4	<0.5	0.77	0.82	<5.0*	a
	9/28/2007	19.41	--	14.34	140	7.0	<0.5	1.2	<0.5	<0.5***	a
	12/9/2007	19.86	--	13.89	120	4.5	<0.5	0.62	<0.5	<0.5	a
	3/3/2008	19.22	--	14.53	63	0.78	<0.5	<0.5	<0.5	<0.5***	i
	6/4/2008	19.58	--	14.17	86	2.2	<0.5	<0.5	0.58	<0.5***	a
	9/9/2008	20.01	--	13.74	460	9.4	0.95	3.1	19	<0.5***	a
	12/5/2008	20.29	--	13.46	290	4.3	1.4	3.0	14	<0.5***	a
	3/2/2009	19.86	--	13.89	520	6.0	2.2	6.5	9.2	<0.5***	a
	9/15/2009	20.23	--	13.52	370	2.2	1.1	2.8	3.3	<0.5***	a
	3/1/2010	19.70	--	14.05	220	1.8	<0.5	1.2	1.5	<0.5***	a
9/7/2010	19.55	--	14.20	320	11	0.83	2.4	2	<0.5***	a	
2/18/2011	19.34	--	14.41	200	4.7	0.52	2.2	2.0	<0.5***	a	
9/23/2011	19.06			14.69	86	4.5	<0.5	<0.5	<0.5	<5.0	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	--	--
	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

TABLE 2

**GROUNDWATER ELEVATION AND ANALYTICAL DATA
ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA**

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
	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
	6/9/2005	18.73	--	15.90	250	42	1.4	14	3.2	<5.0	a
	9/9/2005	19.30	--	15.33	2,000	390	5.0	71	38	<400	a
	12/20/2005	19.65	--	14.98	4,300	760	18	170	150	<35	a
	3/26/2006	18.58	--	16.05	1,600	460	3.3	35	32	<50	a
	6/23/2006	18.57	--	16.06	1,900	500	3.9	81	56	<17	a
	9/7/2006	18.98	--	15.65	8,800	1,900	12	350	220	<260	a,i
	12/29/2006	19.70	--	14.93	15,000	3,400	69	610	700	<450*/<0.5***	a
	3/21/2007	19.57	--	15.06	9,900	2,300	24	360	410	<240*	a
	6/7/2007	19.70	--	14.93	14,000	3,800	40	790	720	<550*	a
	9/28/2007	20.16	--	14.47	26,000	7,200	84	1,100	1,600	<25***	a,l
	12/9/2007	20.56	--	14.07	25,000	7,000	59	1,100	2,000	<17	a,l
	3/3/2008	19.97	--	14.66	30,000	6,200	31	900	1,400	<10***	a,l
MW-5 cont.	6/4/2008	20.32	--	14.31	7,500	1,600	4.6	25	91	<10***	a,j
	9/9/2008	20.75	--	13.88	54,000	8,900	76	1,300	1,700	<25***	a,l
	12/5/2008	21.08	--	13.55	33,000	9,200	43	1,500	1,800	<5.0***	a,l
	3/2/2009	20.74	--	13.89	34,000	9,700	41	1,100	1,300	<5.0***	a,l
	9/15/2009	21.02	--	13.61	40,000	10,000	280	1,400	2,600	<2.5***	a,l
	3/1/2010	20.55	--	14.08	57,000	16,000	240	1,800	5,000	<10***	a,l
	9/7/2010	20.25	--	14.38	35,000	12,000	160	970	2,900	<25***	a,l
	2/18/2011	20.13	--	14.50	100	20	<0.5	0.74	10	<0.5***	a
	9/23/2011	19.78	--	14.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
MW-6 35.89	10/28/1996	20.02	--	15.87	<50	<0.50	<0.50	<0.50	<0.50	<2.0*	
	12/12/1996	20.18	--	15.71	ND	ND	ND	ND	ND	ND*	n
	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	--	--	--	--	--	--	--

TABLE 2

GROUNDWATER ELEVATION AND ANALYTICAL DATA
 ALLRIGHT PARKING
 1432 HARRISON STREET, OAKLAND, CALIFORNIA

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
	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	--
	6/9/2005	18.95	--	16.94	--	--	--	--	--	--	--
	9/9/2005	19.45	--	16.44	--	--	--	--	--	--	--
	12/20/2005	19.90	--	15.99	--	--	--	--	--	--	--
	3/26/2006	18.85	--	17.04	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/23/2006	18.57	--	17.32	--	--	--	--	--	--	--
	9/7/2006	19.13	--	16.76	--	--	--	--	--	--	--
	12/29/2006	19.96	--	15.93	--	--	--	--	--	--	--
	3/21/2007	19.87	--	16.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	m
	6/7/2007	20.05	--	15.84	--	--	--	--	--	--	--
	9/28/2007	20.51	--	15.38	--	--	--	--	--	--	--
	12/9/2007	20.90	--	14.99	--	--	--	--	--	--	--
	3/3/2008	20.47	--	15.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	6/4/2008	20.70	--	15.19	--	--	--	--	--	--	--
	9/9/2008	21.09	--	14.80	--	--	--	--	--	--	--
	12/5/2008	21.50	--	14.39	--	--	--	--	--	--	--
	3/2/2009	21.30	--	14.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
MW-6 cont.	9/15/2009	21.55	--	14.34	--	--	--	--	--	--	--
	3/1/2010	21.20	--	14.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	m
	9/7/2010	20.78	--	15.11	--	--	--	--	--	--	--
	2/18/2011	20.74	--	15.15	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	9/23/2011	20.24	--	15.65	--	--	--	--	--	--	--
MW-7 34.72	9/23/2011	19.60	--	15.12	23,000a	1,800	1,700	930	3,300	<500	--
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	--
Grab Groundwater Sample Results:											
SB-A	7/6/1995	~20	--	--	330	16	3.6	1.3	4.9	--	ij
SB-B	7/7/1995	~20	--	--	450	55	3.1	5.1	5.0	--	a
SB-C	7/6/1995	~20	--	--	44,000	6,600	5,900	980	4,400	--	a
SB-D	7/6/1995	~20	--	--	70,000	7,400	10,000	1,600	7,200	--	a
SB-E	7/6/1995	~20	--	--	25,000	1,000	3,000	610	2,700	--	a
SB-G	7/7/1995	~20	--	--	84,000	9,400	16,000	2,200	9,900	--	a,b
SB-I	7/7/1995	~20	--	--	24,000	6,100	1,400	680	1,600	--	a
SB-J	7/7/1995	~20	--	--	960	110	66	8.7	71	--	a
SB-K	7/7/1995	~20	--	--	72,000	9,600	9,600	1,800	7,000	--	a
CB-1-W	7/22/1999	--	--	--	110,000	1,300	16,000	2,700	12,000	<3000*	a,b,c
CB-2-W	7/22/1999	--	--	--	4,700	21	13	170	76	<50*	a,c
GW-1	7/30/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
GW-2 ^	7/29/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
GW-3 ^	7/29/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
B-25-W	5/31/2011	--	--	--	55,000	19,000	2,000	1,700	2,700	<1,000	a,c
B-26-W	6/1/2011	--	--	--	54,000	1,900	9,600	1,700	8,900	<1,000	a,b,c
B-27-W	6/1/2011	--	--	--	100,000	7,200	21,000	2,300	13,000	<1,500	a,b,c
B-28-W	6/2/2011	--	--	--	100,000	17,000	19,000	2,300	10,000	<2,000	a,b,c

Abbreviations, Methods, & Notes

TOC = Top of casing elevation
 ft amsl = feet above mean sea level
 LNAPL = light non-aqueous phase liquid (previously referred to as SPH)
 TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method SW8015C

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.

TABLE 2

**GROUNDWATER ELEVATION AND ANALYTICAL DATA
ALLRIGHT PARKING
1432 HARRISON STREET, OAKLAND, CALIFORNIA**

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
						←————— (µg/L) —————→					
<p>Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B MTBE = Methyl tert-butyl ether * = MTBE by EPA Method SW8021B ** = MTBE by EPA Method SW8240 *** = MTBE by EPA Method SW8260</p> <p>1 = Not confirmed with EPA Method 8260B. µg/L = micrograms per liter, equivalent to parts per billion -- = Not sampled, not analyzed, not applicable, or no SPH was measured or observed <n = Not detected in sample above n mg/L ND = Not detected above laboratory detection limit x = Groundwater elevation adjusted for SPH by the relation: Groundwater Elevation = TOC Elevation - Depth to Groundwater + (0.7 × 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. ## = The wellhead elevation was lowered by 0.41 feet when well MW-1 was disconnected from the SVE system on April 30, 2005. + = Well de-watered during purging, no measurable water to sample. Sheen = A sheen was observed on the water's surface Field = Observed in the field Lab = Observed in analytical laboratory ^ = Samples associated with 1439 Alice St. Property</p> <p>e = Sample analyzed for purgeable hydrocarbons by EPA Method SW8010, no purgeable hydrocarbons were detected. f = Sample analyzed for VOCs by EPA Method SW8240, no non-BTEX compounds were detected. g = Sample analyzed for Total Petroleum Hydrocarbons as motor oil (TPHmo) by Modified EPA Method SW8015, no TPHmo was detected. h = Analytic sampling discontinued. Approved by Alameda County Department of Environmental Health. i = Lighter 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.</p>											

APPENDIX A
FIELD DATA SHEETS



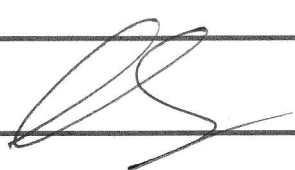
WELL GAUGING SHEET

Client: Conestoga-Rovers and Associates

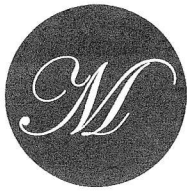
Site

Address: 1432 Harrison Street, Oakland, CA

Date: 9/23/2011

Signature: 

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	9:00		19.85		25.60	
MW-2	9:05	19.91	20.10	0.19	—	
MW-3	8:35		18.87		23.95	
MW-4	8:45		19.06		24.50	
MW-5	8:50		19.78		27.90	
MW-6	8:40		20.24		28.25	
MW-7	8:55		19.60		25.05	



MICRO PURGE WELL SAMPLING FORM

Date:	9/23/2011
Client:	Conestoga-Rovers and Associates
Site Address:	1432 Harrison Street, Oakland, CA
Well ID:	MW-1
Well Diameter:	4"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	25.60
Water level at the start of purge from top of casing:	19.85
Approximate depth of water intake on pump from top of casing:	23.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
11:00	100	--	--	--	--	--	19.85	—	
11:03	100	21.0	6.95	1055	-126	1.12	19.87	38	
11:06	100	20.7	6.94	1040	-124	0.87	19.88	39	
11:09	100	20.9	6.93	1038	-123	0.86	19.88	34	
11:12	100	20.7	6.93	1037	-122	0.83	19.88	39	
11:15	100	20.7	6.91	1037	-120	0.83	19.89	32	
									total purge volume = 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MU-1	9/23/11	11:16	40 mL VOA	HCl	see coc	see coc

Signature: 



MICRO PURGE WELL SAMPLING FORM

Date: 9/23/2011

Client: Conestoga-Rovers and Associates

Site Address: 1432 Harrison Street, Oakland, CA

Well ID: MJ-2

Well Diameter: 2"

Purging Device: Peristaltic Pump

Sampling Method: Peristaltic Pump

Total Well Depth from top of casing: _____

Water level at the start of purge from top of casing: ~~20.10~~ 20.10

Approximate depth of water intake on pump from top of casing: _____

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (μS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
		--	--	--	--	--			SPH 19.91
									Bailed 300 ml SPH
									H ₂ O 20.10
									SPH thickness = 0.19
									total purge volume = _____ ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
			40 mL VOA	HCl	see coc	see coc

Signature:



MICRO PURGE WELL SAMPLING FORM

Date:		9/23/2011							
Client:		Conestoga-Rovers and Associates							
Site Address:		1432 Harrison Street, Oakland, CA							
								Well ID:	MW-4
								Well Diameter:	2"
								Purging Device:	Peristaltic Pump
								Sampling Method:	Peristaltic Pump
								Total Well Depth from top of casing:	24.50
								Water level at the start of purge from top of casing:	19.05
								Approximate depth of water intake on pump from top of casing:	22.0
TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
9:15	100	--	--	--	--	--	19.05	--	
9:18	100	19.6	6.83	461	39	0.48	19.07	25	
9:21	100	19.7	6.85	470	36	0.42	19.09	23	
9:24	100	19.7	6.89	471	36	0.41	19.09	20	
9:27	100	19.6	6.89	474	38	0.40	19.11	24	
9:30	100	19.6	6.89	474	38	0.39	19.11	22	
									total purge volume = 1500 ml
Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method			
MW-4	9/23/11	9:31	40 mL VOA	HCl	see coc	see coc			
						Signature:			



MICRO PURGE WELL SAMPLING FORM

Date: 9/23/2011

Client: Conestoga-Rovers and Associates

Site Address: 1432 Harrison Street, Oakland, CA

Well ID:	MW-5
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	27.90
Water level at the start of purge from top of casing:	19.76
Approximate depth of water intake on pump from top of casing:	22.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
9:47	100	--	--	--	--	--	19.76	—	
9:50	100	19.7	6.89	470	77	0.95	19.78	21	
9:53	100	19.9	6.85	468	72	0.81	19.79	14	
9:56	100	19.9	6.84	465	71	0.80	19.79	17	
9:59	100	19.9	6.82	463	70	0.78	19.79	15	
10:02	100	19.9	6.82	463	69	0.78	19.79	18	
									total purge volume = 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-5	9/23/11	10:03	40 mL VOA	HCl	see coc	see coc

Signature:




MICRO PURGE WELL SAMPLING FORM

Date:	9/23/2011
Client:	Conestoga-Rovers and Associates
Site Address:	1432 Harrison Street, Oakland, CA
Well ID:	MW-7
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	25.05
Water level at the start of purge from top of casing:	19.60
Approximate depth of water intake on pump from top of casing:	22.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (μ S/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
10:21	100	--	--	--	--	--	19.60	-	
10:24	100	20.3	7.02	681	-105	1.15	19.62	27	
10:27	100	20.3	6.97	678	-106	1.04	19.62	24	
10:30	100	20.3	6.96	677	-102	1.03	19.63	21	
10:33	100	20.2	6.95	674	-102	1.02	19.64	20	
10:36	100	20.2	6.94	674	-102	1.01	19.64	21	
									total purge volume 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-7	9/23/11	10:37	40 mL VOA	HCl	see coc	see coc

Signature: 

APPENDIX B

STANDARD FIELD PROCEDURES FOR
GROUNDWATER MONITORING AND SAMPLING

Conestoga–Rovers & Associates

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. Conestoga-Rovers and Associate's field procedures are summarized below.

Groundwater Elevation Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain non-aqueous phase liquid (NAPL) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of NAPL, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be measured last. In wells with a history of NAPL, the NAPL level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of NAPL or floating NAPL globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no NAPL is present.

Wells shall be purged according to low flow protocol using an aboveground peristaltic pump. Groundwater wells shall be purged at a low flow rate not to exceed 500 milliliters per minute (mL/min) until groundwater parameters of conductivity and/or dissolved oxygen have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall also be measured and recorded approximately every 3 to 5 minutes. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, field parameters such as turbidity shall also be measured prior to collection of each groundwater sample.

Conestoga–Rovers & Associates

Groundwater samples shall be collected after well parameters have stabilized at a low flow rate not to exceed 500 mL/min. Groundwater samples shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and Teflon lined tubing shall be used for sampling each well.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. A copy of the COC shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Waste Handling and Disposal

Groundwater extracted during sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums and shall be labeled with the contents, date of generation, generator identification, and consultant contact. Extracted groundwater may be disposed offsite by a licensed waste handler or may be treated and discharged via an operating onsite groundwater extraction/treatment system.

APPENDIX C

CERTIFIED ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION



Analytical Report

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk-Oakland	Date Sampled: 09/23/11
		Date Received: 09/23/11
	Client Contact: Bob Foss	Date Reported: 09/30/11
	Client P.O.:	Date Completed: 09/30/11

WorkOrder: 1109658

September 30, 2011

Dear Bob:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#540188; Borsuk-Oakland,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

1109658



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH
 24 HR
 48 HR
 72 HR
 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: Bob Foss	Bill To: Conestoga-Rovers & Associates	Analysis Request
Company: Conestoga-Rovers & Associates		Other
5900 Hollis St., Ste. A Emeryville, CA E-Mail: bfoss@crworld.com chee@crworld.com		Comments
Tele: (510) 420-3348	Fax: (510) 420-9170	
Project #: 540188	Project Name: Borsuk-Oakland	
Project Location: 1432 Harrison St., Oakland, CA		
Sampler Signature: Muskan Environmental Sampling		

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED				BTEX & TPH as Gas (602 / 8021 + 8015) / 8016	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HIVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAS)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	MIBE by 8260 Per email 9/24/11 Method by 8260 if not be present by 8001	Filter Samples for Metals analysis: Yes / No				
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃																			Other			
MW-1		9/23/11	11:16	3	VOA	X				X																									
MW-4			9:31																																
MW-5			10:03																																
MW-7		X	10:37	X	X	X				X	X																								

(+)
(+)
(+)
(+)

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and compliance.**

Relinquished By:	Date: 9/23/11	Time: 4:45pm	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

COMMENTS: ICE/9.8. <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> PRESERVED IN LAB <input checked="" type="checkbox"/> PRESERVATION VOAS O&G METALS OTHER pH<2
--

McC Campbell Analytical, Inc.

1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1109658

ClientCode: CETE

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:
 Bob Foss
 Conestoga-Rovers & Associates
 5900 Hollis St, Suite A
 Emeryville, CA 94608
 (510) 420-3327 FAX: (510) 420-9170

Email: bfoss@craworld.com
 cc:
 PO:
 ProjectNo: #540188; Borsuk-Oakland

Bill to:
 Accounts Payable
 Conestoga-Rovers & Associates
 5900 Hollis St, Ste. A
 Emeryville, CA 94608

Requested TAT: 5 days

Date Received: 09/23/2011
Date Printed: 09/23/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1109658-001	MW-1	Water	9/23/2011 11:16	<input type="checkbox"/>	A	A											
1109658-002	MW-4	Water	9/23/2011 9:31	<input type="checkbox"/>	A												
1109658-003	MW-5	Water	9/23/2011 10:03	<input type="checkbox"/>	A												
1109658-004	MW-7	Water	9/23/2011 10:37	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX_W	2	PREFD REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **9/23/2011 5:10:08 PM**

Project Name: **#540188; Borsuk-Oakland**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **1109658** Matrix: Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 9.8°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk-Oakland	Date Sampled: 09/23/11
		Date Received: 09/23/11
	Client Contact: Bob Foss	Date Extracted: 09/27/11-09/29/11
	Client P.O.:	Date Analyzed: 09/27/11-09/29/11

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1109658

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	16,000	ND<250	2600	65	350	1400	50	105	d1
002A	MW-4	W	86	ND	4.5	ND	ND	ND	1	112	d1
003A	MW-5	W	ND	ND	ND	ND	ND	ND	1	103	
004A	MW-7	W	23,000	ND<500	1800	1700	930	3300	20	103	d1

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	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:
 d1) weakly modified or unmodified gasoline is significant



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 61385

WorkOrder: 1109658

EPA Method: SW8021B/8015Bm		Extraction: SW5030B							Spiked Sample ID: 1109639-010A			
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	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	113	120	6.54	118	120	1.53	70 - 130	20	70 - 130	20
MTBE	ND	10	97.6	92	5.87	104	109	5.10	70 - 130	20	70 - 130	20
Benzene	ND	10	99.6	106	5.88	104	105	0.773	70 - 130	20	70 - 130	20
Toluene	ND	10	97.9	104	5.74	102	103	0.644	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	99	105	5.71	103	104	0.898	70 - 130	20	70 - 130	20
Xylenes	ND	30	103	109	5.80	107	109	1.18	70 - 130	20	70 - 130	20
%SS:	99	10	97	95	2.21	97	93	3.53	70 - 130	20	70 - 130	20

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

BATCH 61385 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1109658-004A	09/23/11 10:37 AM	09/27/11	09/27/11 7:08 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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 = matrix interference and/or 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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 61401

WorkOrder: 1109658

EPA Method: SW8021B/8015Bm		Extraction: SW5030B							Spiked Sample ID: 1109649-017A			
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	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	90.8	93.5	2.92	92.4	90.3	2.24	70 - 130	20	70 - 130	20
MTBE	ND	10	117	118	0.963	115	115	0	70 - 130	20	70 - 130	20
Benzene	ND	10	104	103	0.995	104	101	2.79	70 - 130	20	70 - 130	20
Toluene	ND	10	91.5	91.9	0.485	93.7	90.5	3.45	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	92.3	93.3	1.06	94.7	91.4	3.59	70 - 130	20	70 - 130	20
Xylenes	ND	30	105	106	0.855	108	104	3.34	70 - 130	20	70 - 130	20
%SS:	98	10	100	99	1.05	101	99	1.12	70 - 130	20	70 - 130	20

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

BATCH 61401 SUMMARY

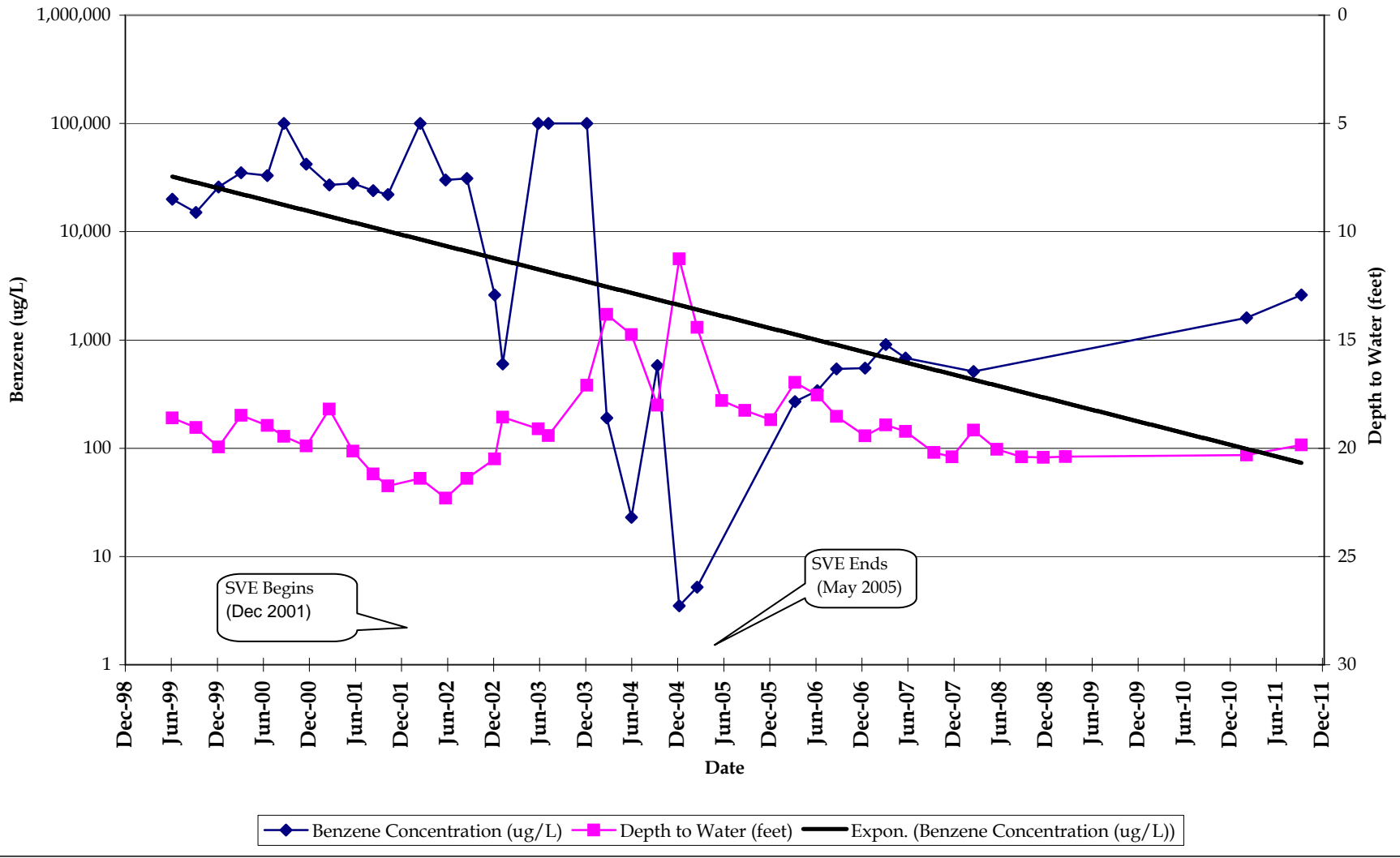
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1109658-001A	09/23/11 11:16 AM	09/27/11	09/27/11 4:18 PM	1109658-002A	09/23/11 9:31 AM	09/29/11	09/29/11 2:19 AM
1109658-003A	09/23/11 10:03 AM	09/27/11	09/27/11 5:19 PM				

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 enough sample to perform matrix spike and matrix spike duplicate.
 NR = matrix interference and/or 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, or inconsistency in sample containers.

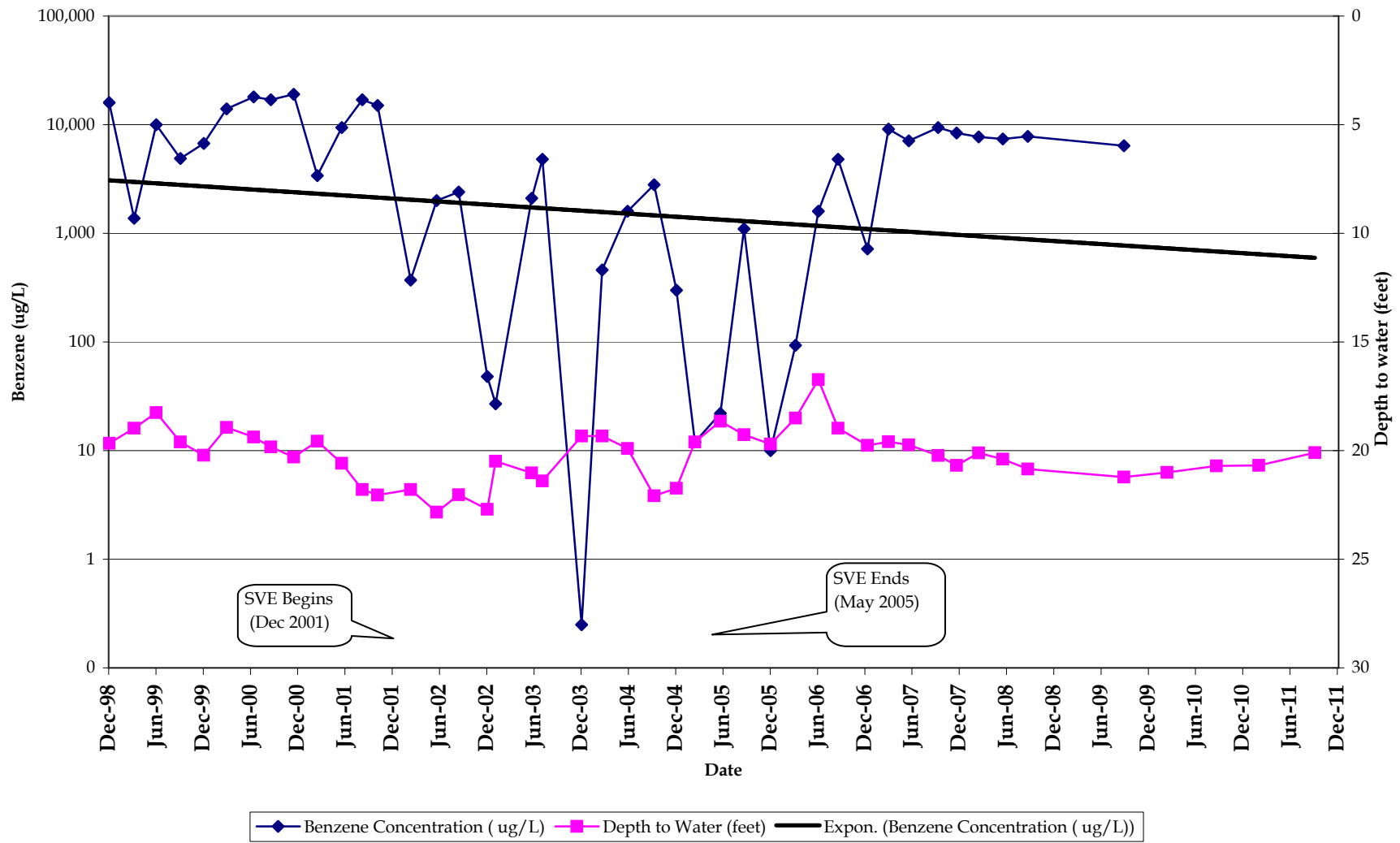
APPENDIX D

BENZENE CONCENTRATION AND
DEPTH TO WATER vs. TIME-SERIES GRAPHS

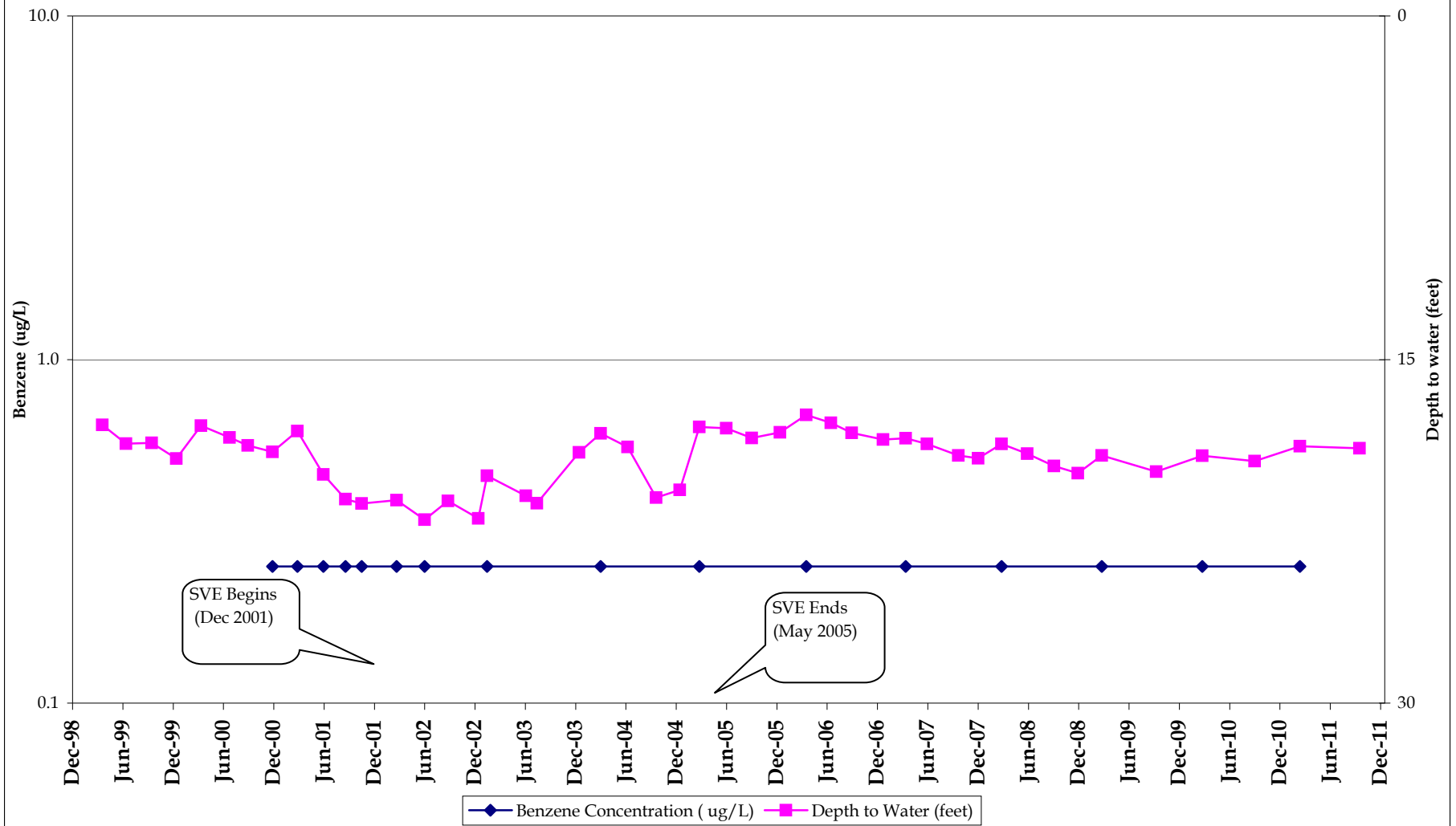
MW-1
Benzene Concentration and Depth to Water vs. Time
 Allright Parking, 1432 Harrison Street, Oakland, California



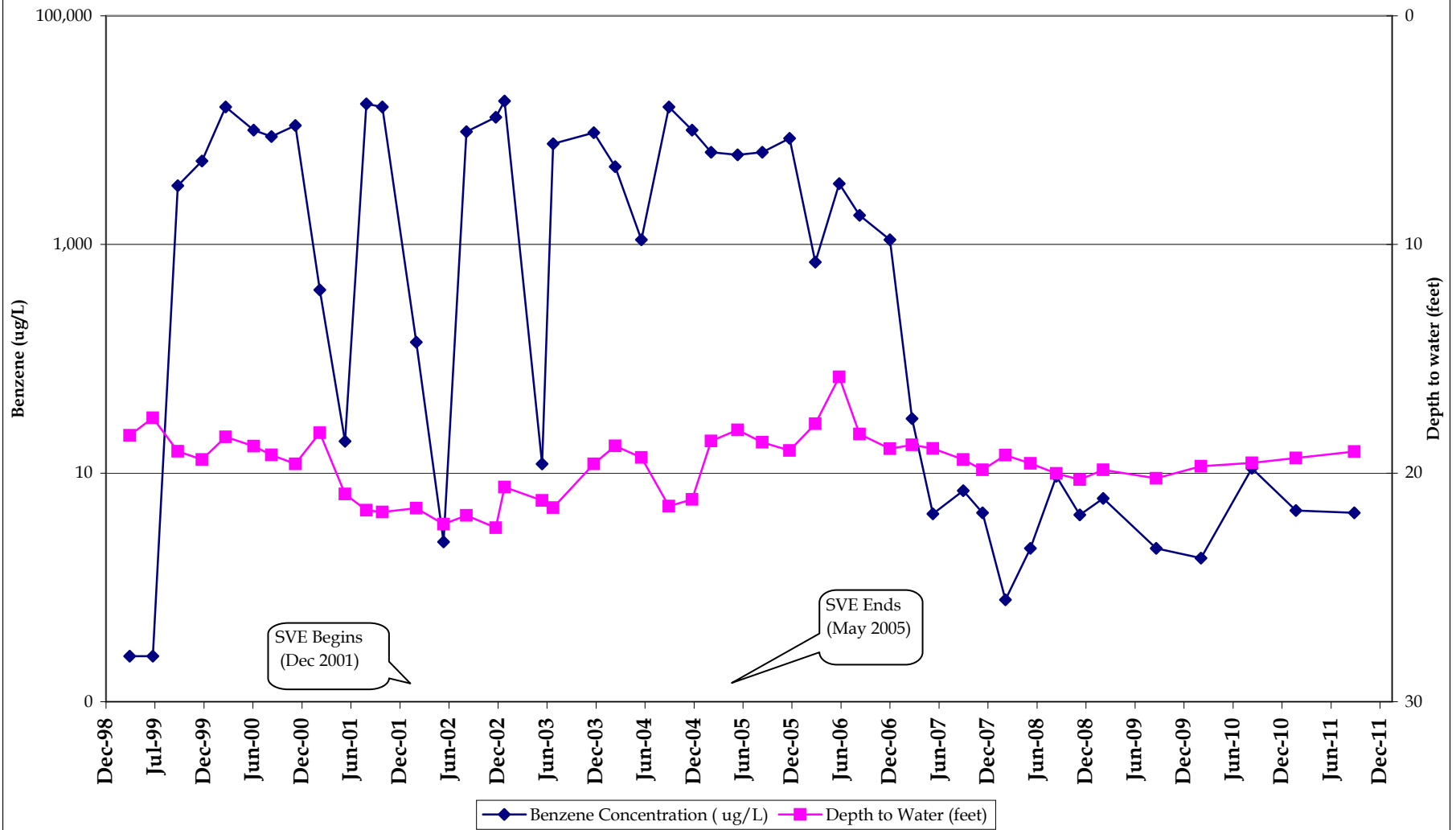
MW-2
Benzene Concentration and Depth to Water vs. Time
 Allright Parking, 1432 Harrison Street, Oakland, California



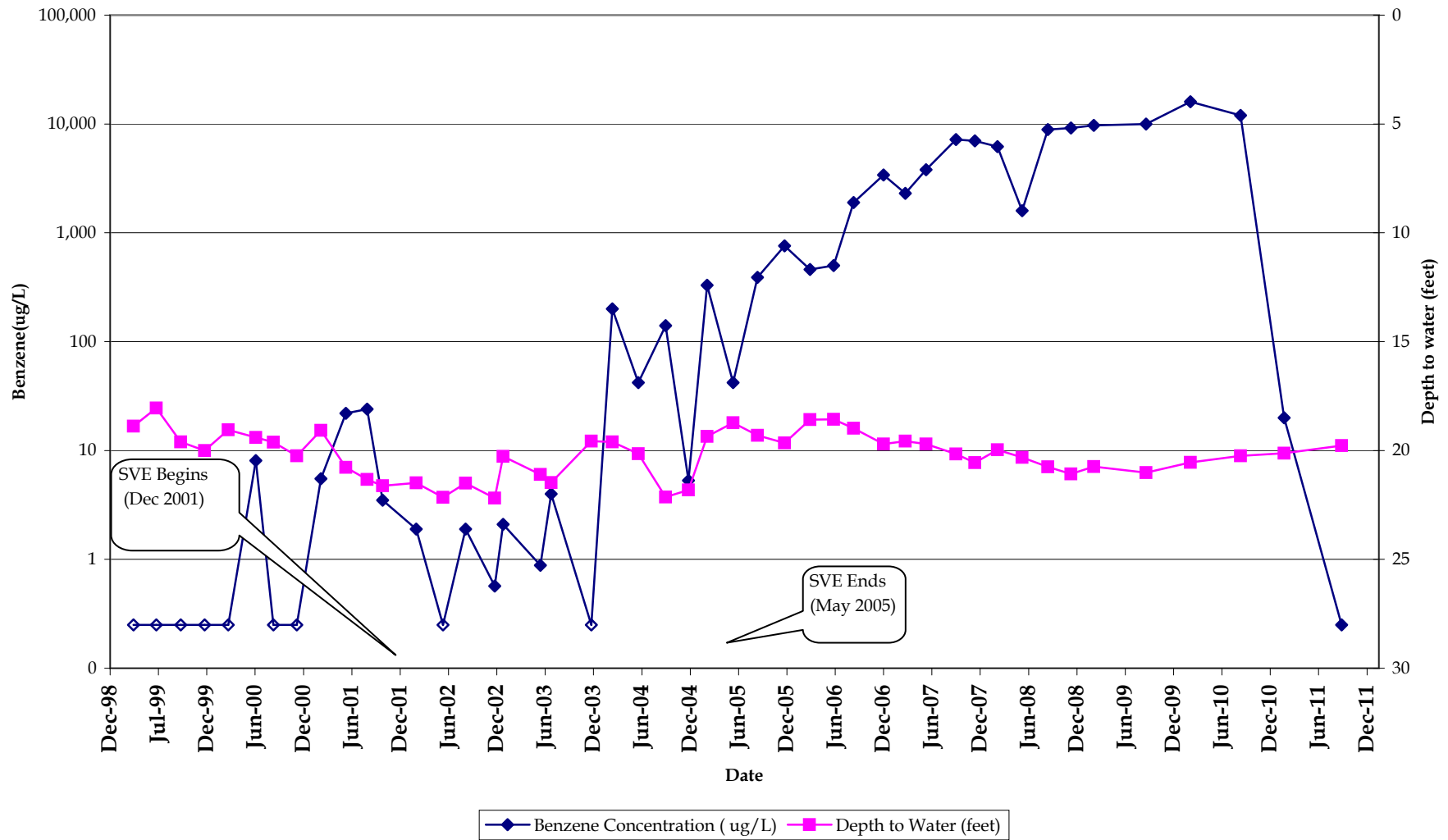
MW-3
Benzene Concentration and Depth to Water vs. Time
 Allright Parking, 1432 Harrison Street, Oakland, California



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
 Alright Parking, 1432 Harrison Street, Oakland, California

