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TRANSMITTAL

DATE: 5/2/2011 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	First 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: 

With respect to:

Groundwater Monitoring Report – FIRST 2011 SEMI-ANNUAL

Dated MAY 2, 2011

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

4/28/11
Date



FIRST 2011 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

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

FUEL LEAK CASE NO. RO0000266

**MAY 2, 2011
REF. NO. 540188 (11)**

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
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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 *First 2011 Semi-Annual Groundwater Monitoring Report* for the site located at 1432 Harrison Street in Oakland, California (Figure 1). Presented in this report are the first 2011 semi-annual groundwater monitoring activities/results and activities anticipated for the second 2011 semi-annual 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 February 18, 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 benzene concentrations and depth to water time-series graphs.

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: 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 February 18, 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 0.38 feet. Groundwater samples were collected from wells MW-1 and MW-3 through MW-6. Well MW-1 was redeveloped on September 24, 2010. Well redevelopment removed a large volume of silt from the well casing. On February 18, a sufficient amount of groundwater was present, allowing gauging and collection of a groundwater sample. The measured groundwater elevation in well MW-1 was anomalously low, relative to nearby wells. Consequently, this well was not used in groundwater elevation contouring. 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, 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) and benzene, toluene, ethylbenzene and xylenes (BTEX) by modified EPA Method 8015/8021, and methyl tertiary butyl ether (MTBE) by EPA Method 8260. 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 have been uploaded to the GeoTracker database.

2.2 CURRENT MONITORING/SAMPLING EVENT RESULTS

Groundwater Flow Direction	North
Hydraulic Gradient	0.002
Range of Depth to Water Measurements From Top of Casing	18.79 to 20.74 feet
Presence of Measureable Light	
Non-Aqueous Phase Liquid (LNAPL)?	Yes

2.2.1 GROUNDWATER FLOW DIRECTION

Based on depth-to-water measurements from the February 18, 2011 site visit, the calculated flow direction of groundwater beneath the site is toward the north at an approximate gradient of 0.002. 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-5, and are assumed to be at saturation levels in well MW-2 based on the presence of LNAPL. The highest TPHg and benzene concentration were detected at 15,000 micrograms per liter ($\mu\text{g/L}$) and 1,600 $\mu\text{g/L}$, respectively, in well MW-1. Benzene, toluene, ethylbenzene and xylenes were also detected in wells MW-4 and MW-5 at varying concentrations. MTBE was not reported above laboratory detection limits in any of the wells. The detections of TPHg and BTEX compounds were consistent with historical concentrations in all wells except for well MW-5. TPHg and BTEX concentrations in well MW-5 had been consistently increasing since 2004 to maximum concentrations of 57,000 $\mu\text{g/L}$ TPHg and 16,000 $\mu\text{g/L}$ benzene, in March 2010. Reported concentrations from the first 2011 semi-annual event exhibited a two order of magnitude decrease from the previous highs of March 2010. This concentration decrease does not appear to be related to groundwater elevation in the well, as samples collected at previous similar elevation levels have shown no decreased dissolved concentrations. Well MW-5 will continue to be monitored and samples analyzed to determine if the greatly reduced concentrations are anomalous. Table 2 documents dissolved hydrocarbon concentrations in the wells and Appendix D contains benzene concentration trend graphs for wells MW-1 through MW-6.

2.3 PROPOSED ACTIVITIES FOR THE SECOND HALF OF 2011

2.3.1 ADDITIONAL SITE CHARACTERIZATION ACTIVITIES

CRA has submitted the required encroachment and excavation permit applications to the Engineering Department of the City of Oakland Office of Community and Economic Development for approval. Based on conversations with this office, CRA estimates that the permits will be granted by late May 2011. Upon acquisition of the necessary permits, CRA will implement the approved scope of work, including the installation of one monitoring well, up to five soil borings along Harrison Street and four soil vapor probes within the basement of 1445 Harrison Street. After the completion of fieldwork, CRA will summarize investigation activities and results in an Additional Offsite Characterization Report.

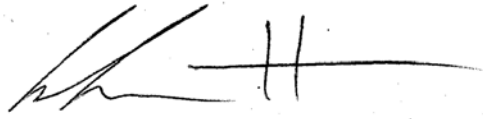
2.3.2 MONITORING ACTIVITIES

The second 2011 semi-annual groundwater monitoring and sampling event will be scheduled for September 2011. All wells will be gauged and sampled during this event. MES will gauge depth to water and check each well for the presence of LNAPL. Groundwater samples will be collected from wells not containing LNAPL for analysis by EPA Method 8015/8021. Groundwater monitoring and sampling results will be uploaded to the State's GeoTracker database. CRA will summarize groundwater monitoring activities and results in the *Second 2011 Semi-Annual Groundwater Monitoring Report*.

2.3.3 RECOMMENDED REDUCTION OF SAMPLE ANALYSES

Groundwater samples have previously been analyzed for MTBE by EPA Method 8260B. Reported results of MTBE analysis have consistently been below detection limits. CRA recommends that analysis of MTBE be eliminated in future sampling events.

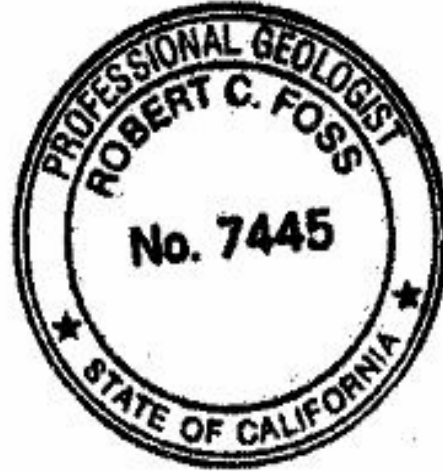
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



Calvin Hee



Robert Foss, P.G. # 7445



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FIGURES



Allright Parking
1432 Harrison Street
Oakland, California



Vicinity Map

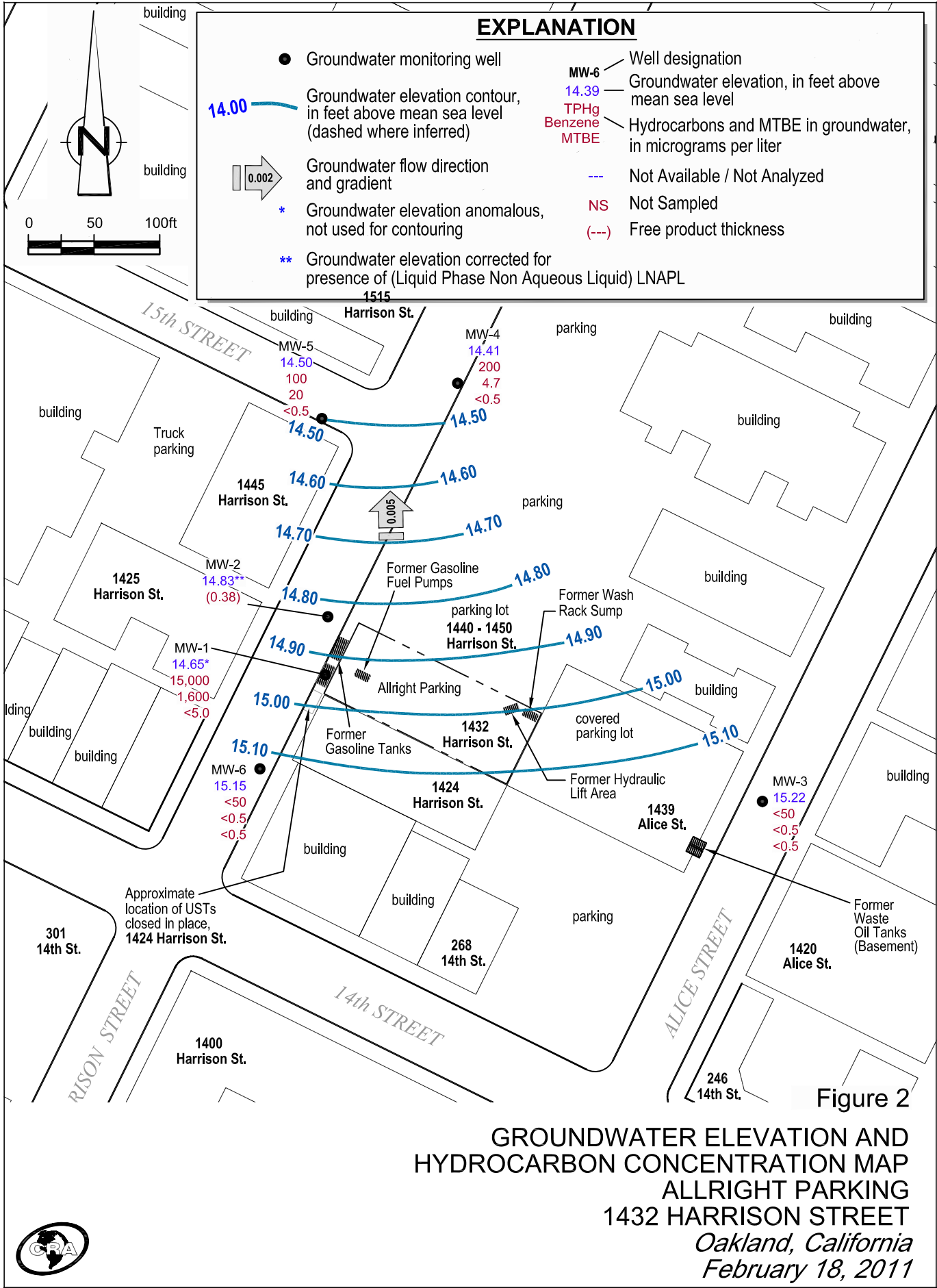


Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
ALLRIGHT PARKING
1432 HARRISON STREET
Oakland, California
February 18, 2011



TABLES

**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
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	--
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
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
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	
3/26/2006	18.51	--	16.70	2,200	93	19	66	130	<50	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
MW-2 cont.	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 →							--
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	--	--	
	3/13/1995	17.86	--	16.11	<50	<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	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--

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	21.03	--	12.98	--	--	--	--	--	--	--
	12/22/2004	20.69	--	13.32	--	--	--	--	--	--	--
MW-3 cont.	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	--
	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***	--
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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GROUNDWATER ELEVATION AND ANALYTICAL DATA
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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.	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	
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	--	
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	

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-5 cont.	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
	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	
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	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	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	

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
	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	--	--	--	--	--	--	--
MW-6 cont.	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***	--
	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***	--
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	--	--

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

Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B

MTBE = Methyl tert-butyl eth* = MTBE by EPA Method SW8021B

** = MTBE by EPA Method SW8240

*** = MTBE by EPA Method SW8260

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 n = TOC well elevation was increased by 3 ft based on a benchmark discrepancy

a = Unmodified or weakly modified gasoline is significant.

b = Lighter than water immiscible sheen is present.

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

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

e = Sample analyzed for purgeable hydrocarbons by EPA Method 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) 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.

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) —————→					

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

discovered during a well survey performed on September 11, 2002.

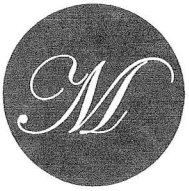
CAMBRIA

Table 1. Historical Groundwater Gradient - Allright Parking, 1432 Harrison Street, Oakland, California

Quarter	Groundwater Flow Direction 1	Groundwater Gradient 1 (ft/ft)	Groundwater Flow Direction 2	Groundwater Gradient 2 (ft/ft)
1Q97	NE			
2Q97	NE			
3Q97	NE		SW	
4Q97	NE		SW	
1Q98	NE		S	
2Q98	NE		S	
3Q98	NE		S	
4Q98	NE		S	
1Q99	NE		SW	
2Q99	NE		S	
3Q99	N		SW	
4Q99	NE		SW	
1Q00	NE		SW	
2Q00	NE		S	
3Q00	NNE	0.067	SW	0.044
4Q00	NNE	0.016	SSW	0.025
1Q01	N	0.016	SSW	0.034
2Q01	NNE	0.019	SSW	0.021
3Q01	NNE	0.019	SSW	0.022
4Q01	NNE	0.015	SSW	0.020
1Q02	NNE	0.018	S	0.026
2Q02	NNE	0.017	SSW	0.018
3Q02	NE	0.008		
4Q02	NE	0.004		
1Q03	NE	0.01		
2Q03	NE	0.025		
3Q03	NE	0.017		
4Q03	NE	0.018		
1Q04	NE	0.006		
2Q04	NE	0.036		
3Q04	NNE	0.004		
4Q04	NNE	0.004		
1Q05	N	0.003		
2Q05	NE	0.005		
3Q05	NE	0.004		
4Q05	NNE	0.004		
1Q06	NNE	0.004		

Wells resurveyed, MW-4 thru 6 surveyed off a diff benchmark, hence off by 3 ft, correc

APPENDIX A
FIELD DATA SHEETS



WELL GAUGING SHEET


Client: Conestoga-Rovers and Associates

PS 1081

Site

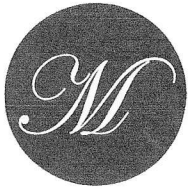
Address: 1432 Harrison Street, Oakland, CA

Date: 2/18/2011

Signature: 

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	8:05	20.30	20.31	0.38	25.61	
MW-2	8:10	20.30	20.68	0.38	25.61	
MW-3	7:45		18.79		23.95	
MW-4	7:55		19.34		24.50	
MW-5	8:00		20.13		27.90	
MW-6	7:50		20.74		28.24	

8:05 



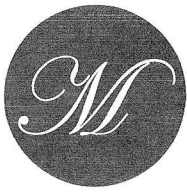
MICRO PURGE WELL SAMPLING FORM

Date:		2/18/2011
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:		25.61
Water level at the start of purge from top of casing:		20.30
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 n Water Level (ft)	Turbidity (NTU)	Comments
11:20	100	--	--	--	--	--	20.30	56.2	
11:23	100	18.7	6.80	391	64	1.92	20.33	49.2	Brown flakes
11:26	100	18.3	6.80	394	40	0.76	20.33	60.1	
11:29	100	18.2	6.78	397	40	0.49	20.33	57.0	
11:32	100	18.2	6.77	397	36	0.44	20.33	56.2	
11:35	100	18.1	6.77	399	33	0.41	20.34	56.3	
11:38	100	18.1	6.77	399	33	0.41	20.34	56.9	
									total purge volume = 1800 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-1	2/18/11	11:39	40 ml VOA	HCl	see COC	8015, 8021, 8260

Signature:



MICRO PURGE WELL SAMPLING FORM

Date: 2/18/2011
 Client: Conestoga-Rovers and Associates
 Site Address: 1432 Harrison Street, Oakland, CA

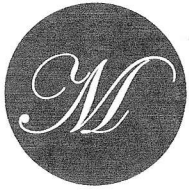
	Well ID: MLI-2
	Well Diameter: 2"
	Purging Device: Peristaltic Pump
	Sampling Method: Peristaltic Pump
	Total Well Depth from top of casing: _____
	Water level at the start of purge from top of casing: 20.68
	Approximate depth of water intake on pump from top of casing: _____

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (μS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
		--	--	--	--	--			DTW = 20.68 SPH = 20.30 <u>SPH thickness = 0.38</u>

total purge volume = _____ ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
			40 ml VOA	HCl	see COC	8015, 8021, 8260

Signature:



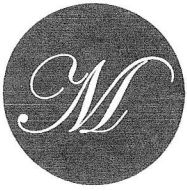
MICRO PURGE WELL SAMPLING FORM

Date:	2/18/2011
Client:	Conestoga-Rovers and Associates
Site Address:	1432 Harrison Street, Oakland, CA
Well ID:	MW-3
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	23.95
Water level at the start of purge from top of casing:	18.80
Approximate depth of water intake on pump from top of casing:	21.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
8:31	100	--	--	--	--	--	18.80	—	
8:34	100	18.4	7.28	1197	36	1.78	18.81	39.4	
8:37	100	18.1	7.33	1194	38	1.40	18.82	31.8	
8:40	100	17.9	7.37	1190	38	1.12	18.82	33.8	
8:43	100	17.9	7.38	1190	41	0.94	18.83	34.1	
8:46	100	17.9	7.39	1188	42	0.91	18.83	34.6	
8:49	100	17.9	7.39	1187	42	0.90	18.83	34.7	
									total purge volume = 1800 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-3	2/18/11	8:50	40 ml VOA	HCl	see COC	8015, 8021, 8260

Signature:



MICRO PURGE WELL SAMPLING FORM

Date:	2/18/2011		
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:	19.36	
	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	--	--	--	--	--	19.36	←	
9:50	100	18.6	7.01	408	-80	1.76	19.36	23.8	
9:53	100	18.3	6.98	396	-97	0.81	19.38	27.2	
9:56	100	18.1	6.97	392	-100	0.64	19.41	30.1	
9:59	100	18.0	6.97	391	-100	0.62	19.43	31.2	
10:02	100	18.0	6.97	390	-102	0.62	19.43	31.5	
								total purge volume = 1500 ml	

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-4	2/18/11	10:03	40 ml VOA	HCl	see COC	8015, 8021, 8260

Signature:

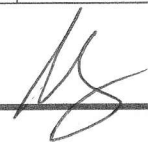


MICRO PURGE WELL SAMPLING FORM

Date:	2/18/2011
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:	20.15
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
10:35	100	--	--	--	--	--	20.15	—	
10:38	100	18.4	6.84	478	112	1.79	20.17	22.9	
10:41	100	18.1	6.81	471	98	1.36	20.19	26.1	
10:44	100	18.0	6.77	463	94	1.08	20.20	24.2	
10:47	100	18.0	6.75	460	94	0.94	20.20	24.2	
10:50	100	17.6	6.75	459	92	0.91	20.20	26.7	
10:53	100	17.5	6.75	459	92	0.90	20.20	26.8	
									total purge volume = 1800 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-5	2/18/11	10:54	40 ml VOA	HCl	see COC	8015, 8021, 8260

Signature: 




MICRO PURGE WELL SAMPLING FORM

Date:	2/18/2011
Client:	Conestoga-Rovers and Associates
Site Address:	1432 Harrison Street, Oakland, CA
Well ID:	MW-6
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	28.24
Water level at the start of purge from top of casing:	20.75
Approximate depth of water intake on pump from top of casing:	24.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
9:05	100	--	--	--	--	--	20.75	—	
9:08	100	18.1	6.72	1233	84	1.63	20.76	29.6	
9:11	100	18.1	6.77	1210	88	1.20	20.77	22.4	
9:14	100	18.1	6.78	1192	89	1.18	20.79	22.8	
9:17	100	18.1	6.79	1190	89	1.12	20.79	22.1	
9:20	100	18.1	6.79	1190	89	1.11	20.81	22.3	
									total purge volume = 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-6	2/18/11	9:21	40 ml VOA	HCl	see COC	8015, 8021, 8260

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



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk-Oakland	Date Sampled: 02/18/11
		Date Received: 02/18/11
	Client Contact: Bob Foss	Date Reported: 02/26/11
	Client P.O.:	Date Completed: 02/25/11

WorkOrder: 1102589

February 26, 2011

Dear Bob:

Enclosed within are:

- 1) The results of the **5** 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.



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**
 Company: **Conestoga-Rovers & Associates**
 5900 Hollis St., Ste A
 Emeryville, CA E-Mail: **bfoss@crworld.com**
 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	Analysis Request	Other	Comments		
		Date	Time			Water	Soil	Air	Sludge	Other	ICE				HCL	HNO ₃
MW-1		2/18/11	11:39	3	VOA	X					X	X	X			**Indicate here if these samples are potentially dangerous to handle: MTBE 678260
MW-3			08:50													
MW-4			10:03													
MW-5			10:54													
MW-6			09:21			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 for allowing us to work safely.

Relinquished By: *[Signature]* Date: **2/18/11** Time: **1247** Received By: *[Signature]*
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/# **2.2** COMMENTS:
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

McCampbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1102589

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@croworld.com, chee@croworld.co**
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: 02/18/2011
Date Printed: 02/18/2011

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	
1102589-001	MW-1	Water	2/18/2011 11:39	<input type="checkbox"/>	A	B	A										
1102589-002	MW-3	Water	2/18/2011 8:50	<input type="checkbox"/>	A	B											
1102589-003	MW-4	Water	2/18/2011 10:03	<input type="checkbox"/>	A	B											
1102589-004	MW-5	Water	2/18/2011 10:54	<input type="checkbox"/>	A	B											
1102589-005	MW-6	Water	2/18/2011 9:21	<input type="checkbox"/>	A	B											

Test Legend:

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

Prepared by: Maria Venegas

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: **2/18/2011 2:37:26 PM**

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

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **1102589** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: 2.2°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

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

Client contacted:

Date contacted:

Contacted by:

Comments:



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Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk-Oakland	Date Sampled: 02/18/11
	Client Contact: Bob Foss	Date Received: 02/18/11
	Client P.O.:	Date Extracted: 02/22/11-02/25/11
		Date Analyzed: 02/22/11-02/25/11

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1102589

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	15,000	---	1600	25	ND<10	1400	20	100	d1
002A	MW-3	W	ND	---	ND	ND	ND	ND	1	98	
003A	MW-4	W	200	---	4.7	0.52	2.2	2.0	1	104	d1
004A	MW-5	W	100	---	20	ND	0.74	10	1	105	d1
005A	MW-6	W	ND	---	ND	ND	ND	ND	1	97	

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



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Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk-Oakland	Date Sampled: 02/18/11
	Client Contact: Bob Foss	Date Received: 02/18/11
	Client P.O.:	Date Analyzed 02/24/11
		Date Extracted: 02/24/11

Methyl tert-Butyl Ether*

Extraction method SW5030B

Analytical methods SW8260B

Work Order: 1102589

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS	Comments
001B	MW-1	W	ND<5.0	10	85	a3
002B	MW-3	W	ND	1	100	
003B	MW-4	W	ND	1	87	
004B	MW-5	W	ND	1	105	
005B	MW-6	W	ND	1	103	

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

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

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

surrogate diluted out of range or surrogate coelutes with another peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

a3) sample diluted due to high organic content.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 56360

WorkOrder 1102589

EPA Method SW8260B		Extraction SW5030B							Spiked Sample ID: 1102535-001A			
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	RPD	LCS/LCSD	RPD
Methyl-t-butyl ether (MTBE)	ND	10	115	109	5.50	110	111	0.998	70 - 130	30	70 - 130	30
%SS1:	85	25	96	96	0	98	98	0	70 - 130	30	70 - 130	30

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

BATCH 56360 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1102589-001B	02/18/11 11:39 AM	02/24/11	02/24/11 2:12 PM	1102589-002B	02/18/11 8:50 AM	02/24/11	02/24/11 2:46 AM
1102589-003B	02/18/11 10:03 AM	02/24/11	02/24/11 2:51 PM	1102589-004B	02/18/11 10:54 AM	02/24/11	02/24/11 3:25 AM
1102589-005B	02/18/11 9:21 AM	02/24/11	02/24/11 4:05 AM				

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

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

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

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 SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 56387

WorkOrder 1102589

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1102576-022A			
	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	98.5	92.8	5.99	94.5	93.6	0.954	70 - 130	20	70 - 130	20
MTBE	ND	10	119	111	6.93	109	112	3.18	70 - 130	20	70 - 130	20
Benzene	ND	10	120	122	1.59	116	118	2.00	70 - 130	20	70 - 130	20
Toluene	ND	10	107	107	0	102	105	2.74	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	108	107	0.959	101	106	4.20	70 - 130	20	70 - 130	20
Xylenes	ND	30	121	116	4.54	114	120	4.36	70 - 130	20	70 - 130	20
%SS:	124	10	106	109	3.23	106	107	0.816	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 56387 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1102589-001A	02/18/11 11:39 AM	02/25/11	02/25/11 2:09 AM	1102589-002A	02/18/11 8:50 AM	02/22/11	02/22/11 8:15 PM
1102589-003A	02/18/11 10:03 AM	02/25/11	02/25/11 3:45 AM	1102589-004A	02/18/11 10:54 AM	02/22/11	02/22/11 8:45 PM
1102589-005A	02/18/11 9:21 AM	02/22/11	02/22/11 9:46 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.

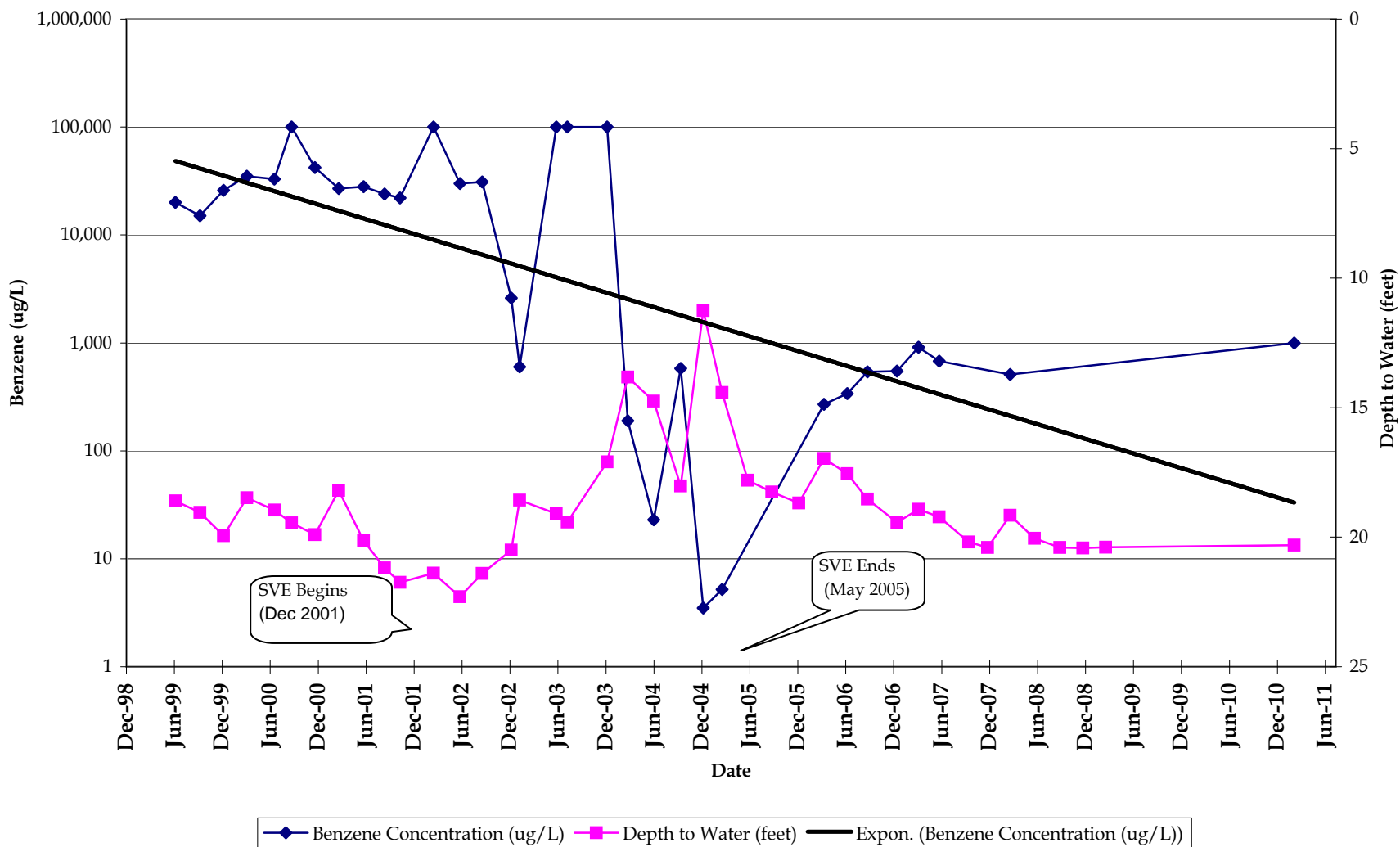
NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

APPENDIX D

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

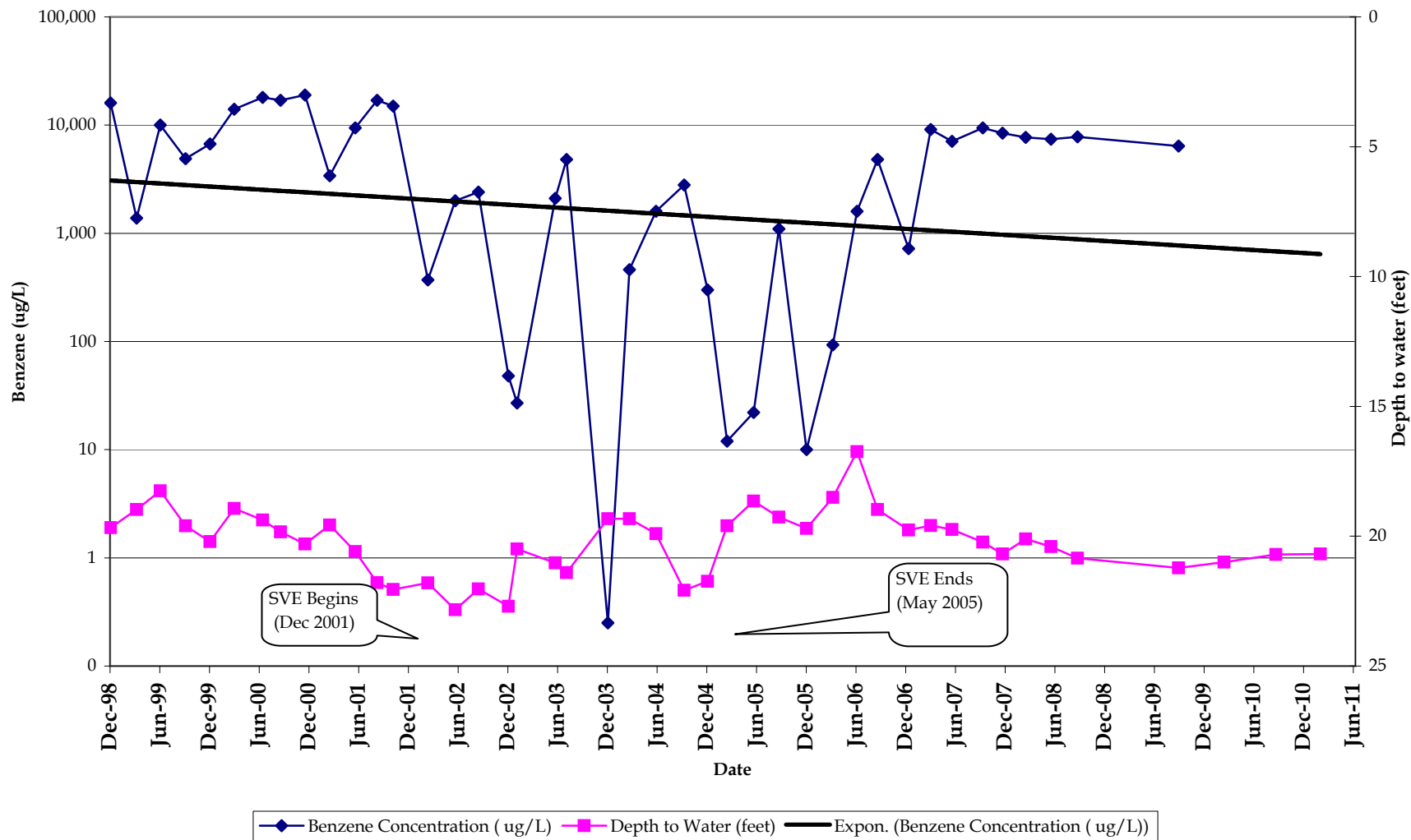
MW-1: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



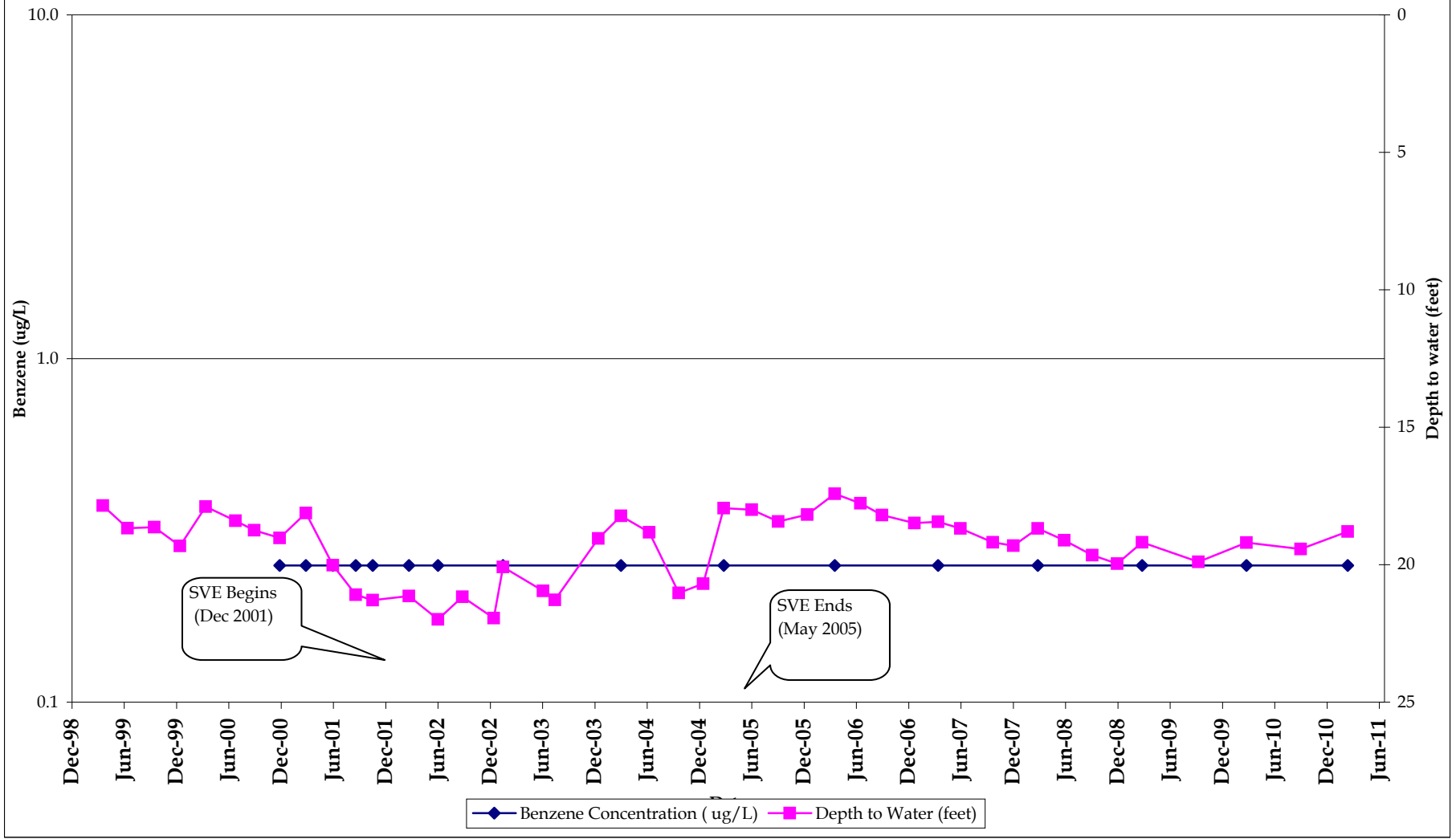
MW-2: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



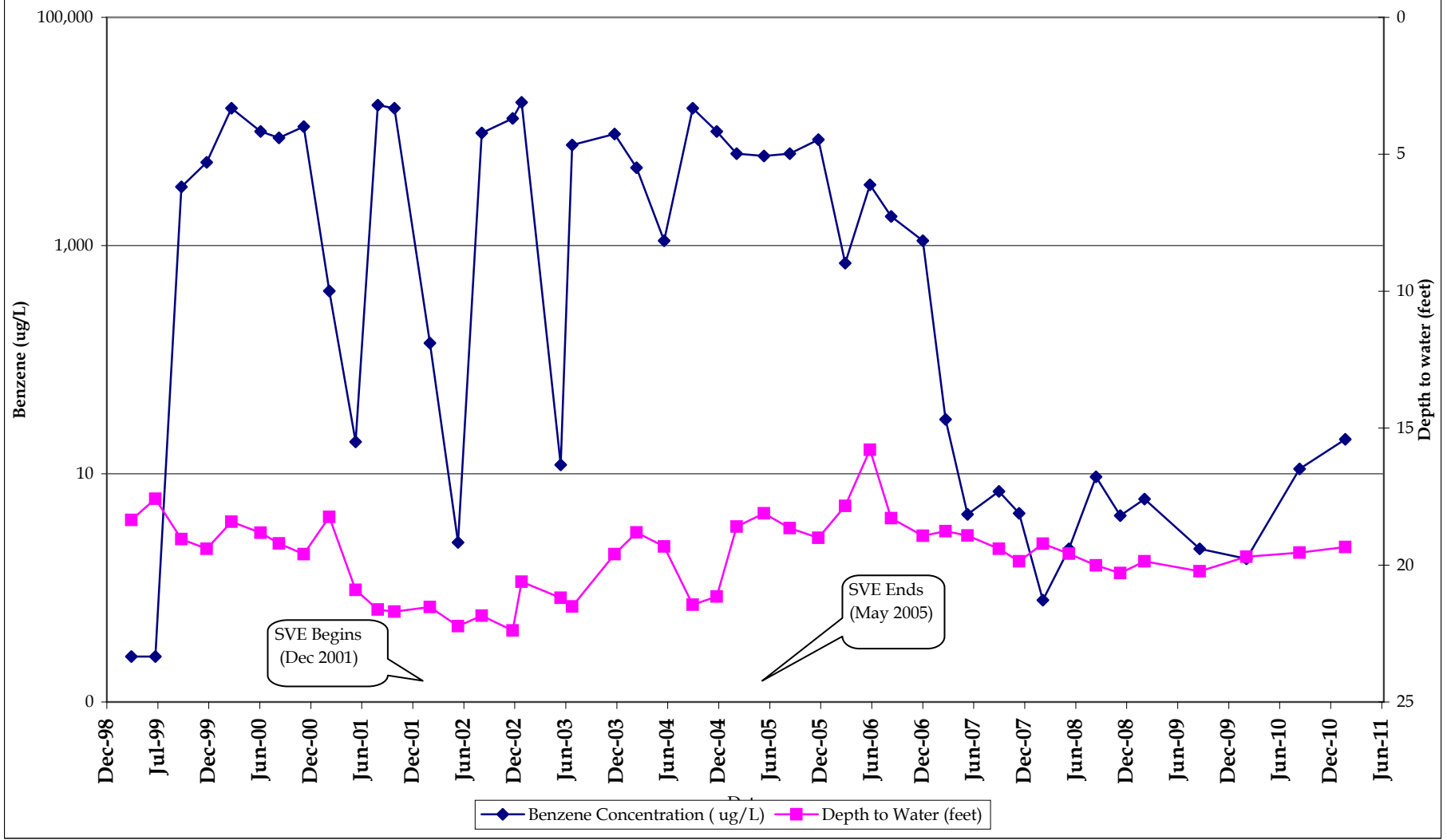
MW-3: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



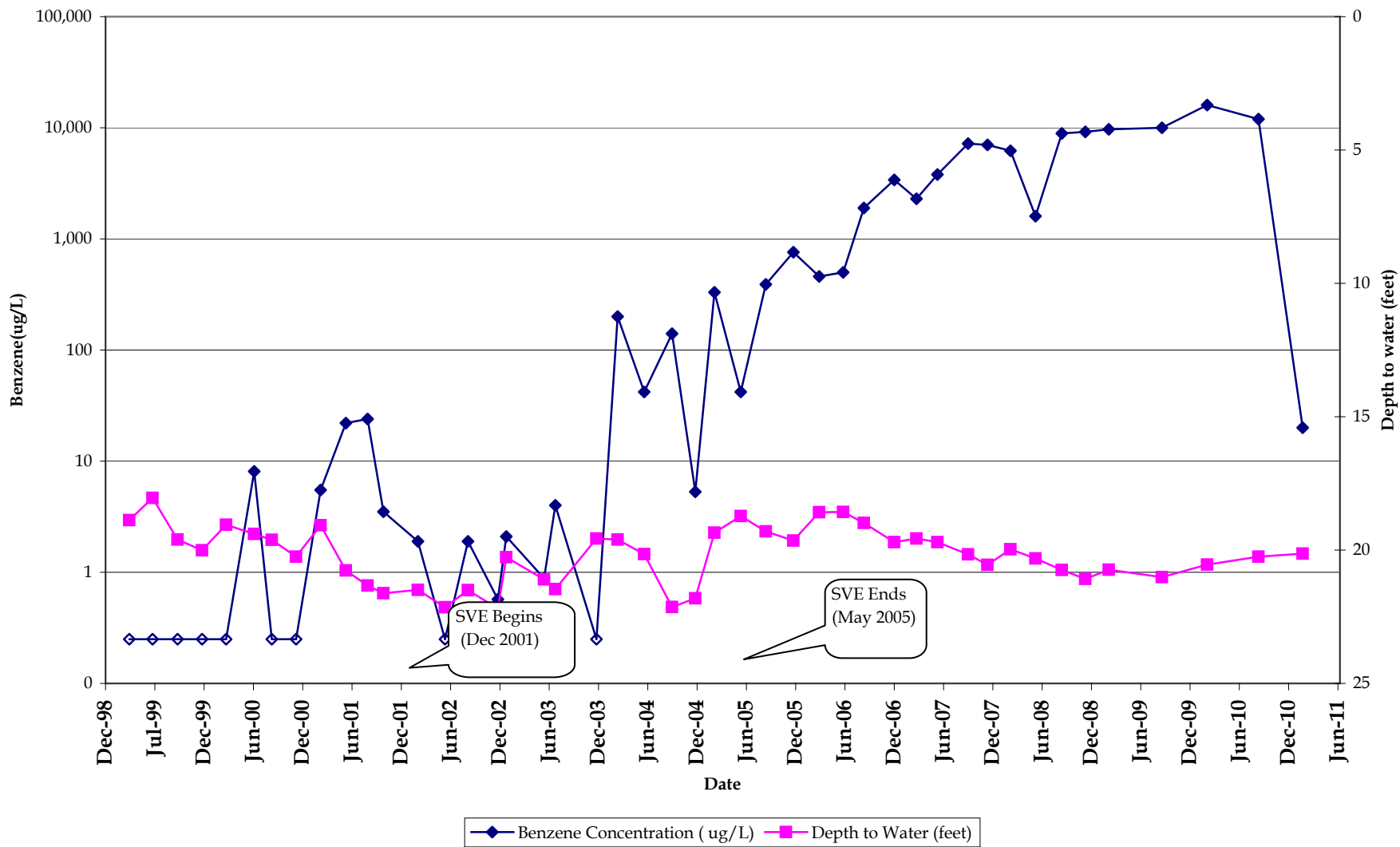
MW-4: Benzene Concentration and Depth to Water vs. Time

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

Allright Parking, 1432 Harrison Street, Oakland, California

