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Alameda County Environmental Health 5900 Hollis Street, Suite A, Emeryville, California 94608 Telephone: 510·420·0700 Facsimile: 510·420·9170 www.CRAworld.com

December 10, 2007

Ms. Donna Drogos Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Re: Groundwater Monitoring Report - Third Quarter 2007

Allright Parking 1432 Harrison Street, Oakland, California Fuel Leak Case No. RO0000266 CRA Project No. 540188

Dear Ms. Drogos:

On behalf of the Sydney & Barbara Borsuk Trust and Sheila Siegel Trust, Conestoga-Rovers & Associates, Inc. (CRA) is submitting the *Groundwater Monitoring Report – Third Quarter 2007*. Presented in this report are a summary of the field activities and a presentation of the results from the third quarter 2007 groundwater monitoring event.

If you have any questions or comments regarding this report, please call me at (510) 420-3307.

Sincerely,

Conestoga-Rovers & Associates, Inc.

Mark Jonas, P.G.

Senior Project Geologist

Attachments: Groundwater Monitoring Report - Third Quarter 2007

cc: Sydney and Barbara Borsuk Trust & Sheila Siegel Trust c/o Mr. Mark Borsuk, 1626 Vallejo Street, San Francisco, CA 94123-5116



GROUNDWATER MONITORING REPORT – THIRD QUARTER 2007

Allright Parking 1432 Harrison Street Oakland, California Fuel Leak Case No. RO0000266 CRA Project No. 540188

December 10, 2007

Prepared for:
Sydney & Barbara Borsuk Trust
Sheila Siegel Trust
c/o Mr. Mark Borsuk
1626 Vallejo Street
San Francisco, California 94123-5116

Prepared by:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608

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MAL

MARK L.

JONAS No. 6392

PRO

Written by:

Bryan A. Fong Staff Geologist Reviewed By:

Mark Jonas, P. .

Senior Project Geologist



GROUNDWATER MONITORING REPORT – THIRD QUARTER 2007

Allright Parking 1432 Harrison Street, Oakland, California Fuel Leak Case No. RO0000266 CRA Project No. 540188

December 10, 2007

INTRODUCTION

On behalf of the Sydney & Barbara Borsuk Trust and Shiela Siegal Trust, Conestoga-Rovers & Associates, Inc. (CRA) has prepared this *Groundwater Monitoring Report - Third Quarter 2007* for the above-referenced site (see Figure 1). Presented in this report are the third quarter 2007 groundwater monitoring activities and results, and the anticipated fourth quarter 2007 activities.

Figure 1 is a vicinity map. Figure 2 presents groundwater elevation contours and hydrocarbon concentrations for this monitoring event. Table 1 provides well construction details. Table 2 presents recent and historic well water depth measurements and hydrochemical data, and separate phase hydrocarbon (SPH) measurements and observations. Appendix A contains the field data sheets for the third quarter 2007 monitoring events. Appendix B is the analytical laboratory report for the groundwater sampling event. Appendix C contains benzene concentrations and depth to water time-series graphs.

THIRD QUARTER 2007 ACTIVITIES AND RESULTS

Monitoring Activities

Field Activities: On September 28, 2007, CRA coordinated with Muskan Environmental Sampling (MES) to conduct quarterly monitoring activities. MES gauged groundwater levels and inspected for SPH in all monitoring wells. No measurable SPH was detected in any of the wells. Groundwater samples were collected from wells MW-2, MW-4, and MW-5. Due to insufficient water, well MW-1 was not sampled this quarter. Groundwater monitoring field data sheets are provides in Appendix A. The groundwater monitoring data has been submitted to the GeoTracker database.

Field activities associated with well sampling included well purging, water quality measurements, sample collection, and equipment decontamination. Prior to sampling, the monitoring wells were purged by repeated bailing using a new, disposable bailer for each well. Field measurements of pH, specific conductance, and temperature of the purged groundwater were measured after extraction of each



successive casing volume or at regular volume intervals. Purging of groundwater from each monitoring well continued until at least three casing volumes of water were extracted and consecutive pH, conductivity, and temperature measurements appeared to stabilize. Field water quality measurements purge volumes, and sample collection data were recorded on field sampling data forms (Appendix A).

Groundwater samples were collected using disposable bailers. The samples were decanted from the bailers into 40-milliliter (mL) glass volatile organic analysis (VOA) vials supplied by McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. Immediately after collection, the sample containers were labeled and placed on water-based ice in a cooler. Chain-of-custody procedures were followed from sample collection to transfer to the laboratory (Appendix B).

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

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015; and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method 8260. All analyses were performed by McCampbell. The laboratory analytical report is included as Appendix B. Hydrocarbon concentrations are summarized on Figure 2 and presented in Table 2. The analytical data were submitted to the GeoTracker database.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during the September 28, 2007 site visit, groundwater beneath the site apparently flows toward the northeast, at a gradient of 0.006 feet/foot. Groundwater flow conditions observed during the third quarter 2007 are consistent with conditions observed during previous monitoring events. Groundwater elevation data is summarized on Figure 2 and presented in Table 2.

Hydrocarbon Distribution in Groundwater: Hydrocarbon concentrations were detected in all of the sampled wells. Due to insufficient water in MW-1, a sample was not collected. TPHg concentrations ranged from 140 micrograms per liter (μ g/L) to 44,000 μ g/L, with the highest concentration detected in well MW-2. Benzene concentrations ranged from 7.0 μ g/L to 9,400 μ g/L, with the highest concentration detected in well MW-2. Toluene concentrations ranged from 84 μ g/L to 630 μ g/L, with the highest



concentration detected in well MW-2. Ethylbenzene concentrations ranged from 1.2 μ g/L to 1,400 μ g/L, with the highest concentration detected in well MW-2. Xylenes concentrations ranged from 1,600 μ g/L to 3,600 μ g/L, with the highest concentration detected in well MW-2. MTBE was not detected above laboratory reporting limits. Refer to Table 2 for dissolved hydrocarbon concentrations, and Appendix C for benzene concentration trend graphs for wells MW-1 through MW-6. The unshaded symbols on the graphs represent results below laboratory detection limits.

ANTICIPATED FOURTH QUARTER 2007 ACTIVITIES

Monitoring Activities

CRA will coordinate with MES to perform quarterly monitoring activities. MES will gauge all monitoring wells; check wells for SPH; and collect groundwater samples from wells not containing SPH. As per the sampling schedule, wells MW-1, MW-2, MW-4 and MW-5 will be sampled during the fourth quarter event. Groundwater samples will be analyzed for TPHg by modified EPA Method 8015, and BTEX and MTBE by EPA Method 8260B. Groundwater monitoring and sampling results will be submitted to the State's GeoTracker database. CRA will summarize groundwater monitoring activities and results in the Groundwater Monitoring Report - Fourth Quarter 2007.

Risk Assessment

On August 8, 2006 Cambria submitted a *Risk Assessment* for the subject site. This was submitted to the ACEH ftp site, Geotracker, and we mailed an original to the agency. We have yet to receive a formal response from ACEH.



ATTACHMENTS

Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevation and Hydrocarbon Concentration Map

Table 1 – Well Construction Details

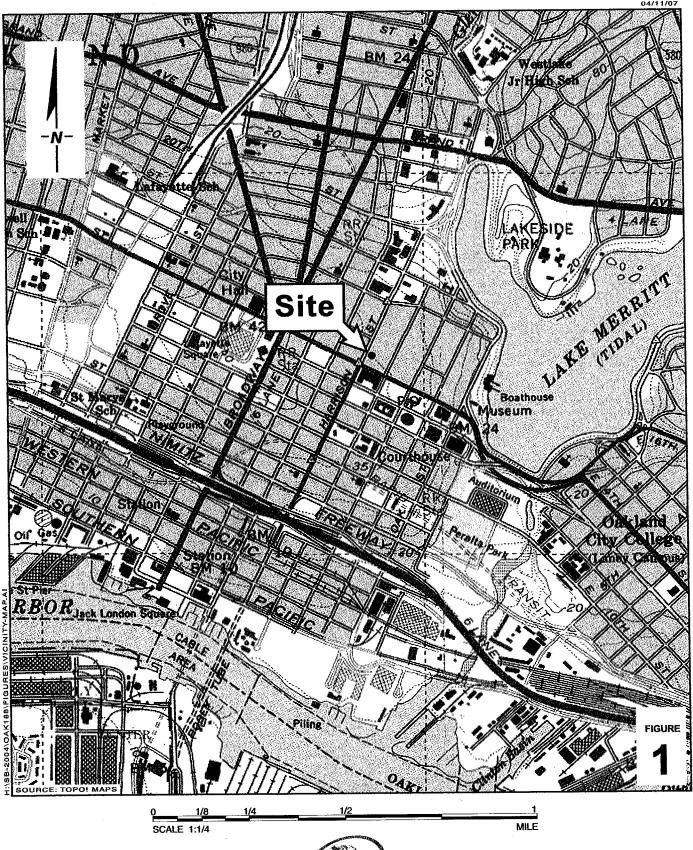
Table 2 – Groundwater Elevations and Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B - Analytical Results for Groundwater Sampling

Appendix C - Benzene Concentration and Depth to Water Time-Series Graphs

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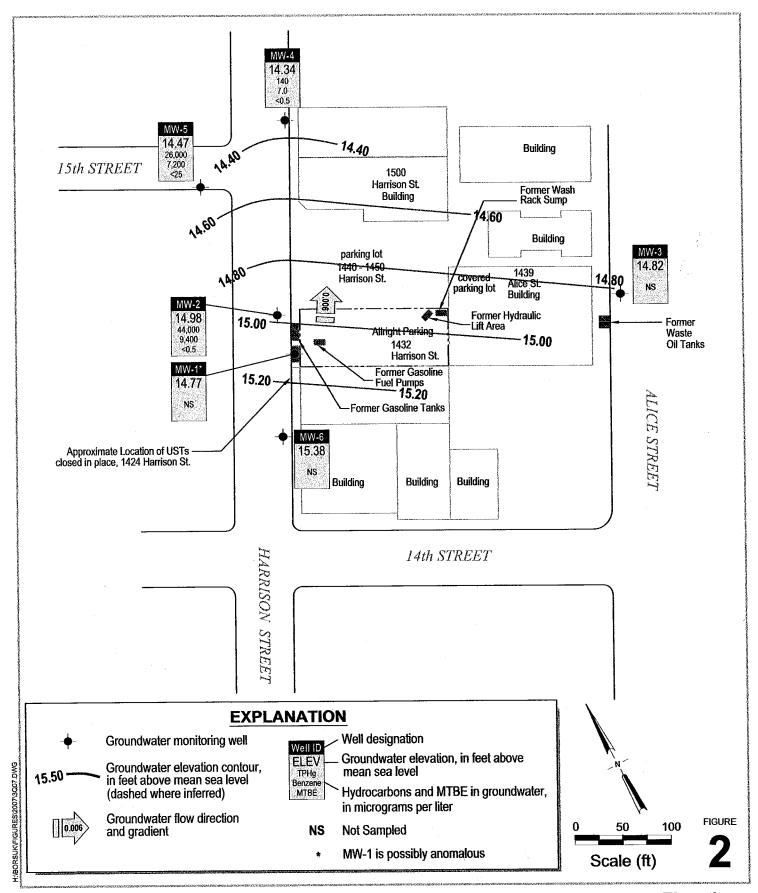


Allright Parking

1432 Harrison Street Oakland, California



Vicinity Map



Allright Parking

1432 Harrison Street Oakland, California



Groundwater Elevation and Hydrocarbon Concentration Map

Table 1. Well Construction Details - Allright Parking, 1432 Harrison Street, Oakland, California

Well No.	Installation Date	Total Depth (ft-bgs)	Boring Diameter (inch)	Well Diameter (inch)	Screen Size (inch)	Screened Interval (ft-bgs)	Sand Pack Interval (ft-bgs)	Surface Seal (ft-bgs)	TOC Elevation (ft-msl)
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	30-Dec	0-12	35.89
VES-1 (VE) VES-1 (AS)	7/23/1999	30	8	3 1	0.020 0.020	5-20 28-30	4.5-20 27.5-30	0-5 0-27.5	- -
VES-2 (VE) VES-2 (AS)	7/22/1999	29.5	8	3 1	0.020 0.020	5-20 27.5-29.5	4-20 27-29.5	0-4 0-27	-
VES-3 (VE) VES-3 (AS)	7/23/1999	30	8	3 1	0.020 0.020	5-20 28-30	4-20 25-30	0-4 0-25	- -
VES-4 (VE) VES-4 (AS)	7/23/1999	29	8	3 1	0.020 0.020	5-20 27-29	4-20 26.5-28.5	0-4 0-26.5	- - -

ft-bgs ft-msl feet below ground surface feet above mean sea level

Table 2. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID Sample ID	Date	Depth to Groundwater	SPH Thickness	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes .	MTBE	Not
TOC (ft amsl)		(ft amsl)	(feet)	(feet)			(μg/L)				
onitoring Well Sam	ple Results:										
MW-I	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		
į.	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	19.05		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	
	7/3/2000	18.95		16.00	200,000	33,000	46,000	2,200	15,000	<200*	
				15.50	200,000						
	9/7/2000	19.45	Sheen	15.05	220,000	42,000	57,000	2,700	17,000	<200	
	12/5/2000	19.90			180,000	27,000	39,000	2,000	13,000	<1200* /<20***	
	3/6/2001	18.20		16.75		28,000	40,000	1,900	13,000	<200	
	6/8/2001	20.14		14.81	170,000	•	33,000	1,600	11,000	<350	
	8/27/2001	21.19		13.76	130,000	24,000		1,500	10,000	<350	
	10/25/2001	21.74		13.21	160,000	22,000	28,000				
*	3/1/2002	21.39	0.41	13.84 ^x						<1.000*	
	6/10/2002	22.30		12.65	210,000	30,000	51,000	3,100	22,000	<1,000*	
34.96	9/3/2002	21.40		13.56	2,500,000	31,000	170,000	29,000	170,000	2,500,000*	
	12/22/2002	20.50		14.46	89,000	2,600	9,300	530	28,000	<1,700	1
	1/23/2003	18.57		16.39	130,000	600	1,600	<100	41,000	<50***	. 8
	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	•
	6/16/2004	14.75		20.62	2,700	23	160	13	520	<25	
	9/27/2004	18.02		17.35	27,000	580	2,000	56	6,800	<10***	
	12/22/2004	11.25		24.12	250	3.5	18	<0.5	47	<0.5***	
	3/3/2005	14.42		20.95	320	5,2,	13	3.2	46	<5.0	
34.96##	6/9/2005	17.80		17.16							
	9/9/2005	18,26	·	16.70		 * .		· ·	'		
	12/20/2005	18.68		16.28		the second second		, .			
	3/26/2006	16.96	·	18.00	23,000	270	400	65	4,400	<50	
	6/23/2006	17.55		17.41	30,000	340	680	170	6,900	<500	
	9/7/2006	18.53		16,43	34,000	540	630	190	7,000	<500	
	12/29/2006	19.43		15,53	20,000	550	55	130	4,700	<100*/<0.5***	
	3/21/2007	18.92		16.04	23,000	910	210	140	5,900	<250*	
	6/7/2007	19.22		15.74	24,000	680	. 61	190	4,300	<100*	
	9/28/2007	20.19		14.77				-	·		
	// #U/ £UU /	20,17									
MW-2	8/1/1994				130,000	28,000	35,000	3,000	12,000		
35.18	12/21/1994	19.91		15.27	200	140,000	200,000	3,500	22,000		
33.10	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		
		18.74		16.38	120,000	23,000	30,000	2,700	13,000		
	7/7/1995			15.88	110,000	23,000	29,000	2,500	11,000		
	9/28/1995	19.30				980	1,800	2,200	10,000		
	12/20/1995	20.24		14.94	83,000		32,000	2,200	12,000	<200*	
	3/26/1996	19.69		15.49	150,000	23,000				<200*	
	6/20/1996	19,20		15.98	94,000	15,000	23,000	2,400	12,000		
	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					0.100	720*	
	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		
						16,000	22,000	2,200	8,300		

Table 2. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID Sample ID	Date	Depth to Groundwater	SPH Thickness	Groundwater Elevation	ТРНд	Benzene	Toluene	Ethylbenzene	Xylenes	МТВЕ	Not
OC (fi amsl)		(ft amsl)	(feet)	(feet)			(µg/L)			>	
MW-2	3/29/1999	18.97		16.21	16,600	1,380	1,920	373	1,840		
(cont.)	6/23/1999	18.25		16.93	41,000	10,000	9,400	1,100	5,000	. 	
(cont.)				15.58	40,600	4,880	3,490	1,090	4,560		
	9/24/1999	19.60			61,900	6,710	9,320	1,150	5,360		_
	12/23/1999	20.21		14.97				1,600	6,900	<1600	а
	3/21/2000	18.93		16.25	98,000	14,000	21,000				
	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
	12/5/2000	20.30	·	14.88	130,000	19,000	28,000	2,500	11,000	<200	. 8
	3/6/2001	. 19.57		15.61	32,000	3,400	3,400	580	2,500	<200	ä
	6/8/2001	20.59	'	14.59	72,000	9,400	9,200	1,300	5,800	<200	. 8
	8/27/2001	21.79		13.39	110,000	17,000	28,000	2,600	11,000	<950	
•	10/25/2001	22.05		13.13	110,000	15,000	18,000	2,000	8,700	<350	
		21.80		13.38	3,100	370	180	62	330	<5.0*	
	3/1/2002				7,800	2,000	1,100	76	570	<100*	
	6/10/2002	22.83		12.35				320	1,400	<500	
35.2I	9/3/2002	22.03		13.18	21,000	2,400	2,900				
	12/22/2002	22,70		12.51	630	. 48	56	19	82	<5.0	
	1/23/2003	20.49		14.72	1,100	27	32	19	150	<25	
	6/12/2003	21.03		14.18	10,000	2,100	1,600	150	660	<250	
	7/23/2003	21.40		13,81	28,000	4,800	4,800	380	1,700	<500	
	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	
	6/16/2004	19.90		15.31	9,100	1,600	1,200	220	830	<400	
					14,000	2,800	490	340	1,600	<350	
	9/27/2004	22.08		13.13				22	71	<15	
	12/22/2004	21.74		13.47	1,100	300	28				
	3/3/2005	19.60		15.61	340	12	4.4	9,1	28	<10	
	6/9/2005	18.65		16.56	240	22	2.7	6.4	27	<10	
	9/9/2005	19.27		15.94	7,800	1,100	170	380	690	<160	
	12/20/2005	19.70		15.51	150	10	1.9	2.8	10	<5.0	
	3/26/2006	18.51		16.70	2,200	93	. 19	66	130	<50	
	6/23/2006	18.47		16.74	8,800	1,600	110	500	480	<500	1
	9/7/2006	18.97		16.24	29,000	4,800	280	940	1,000	<500	
					4,500	720	54	250	480	75*1/<0.5***	
	12/29/2006	19.76		15.45			500	890	2,500	<1,100*	
	3/21/2007	19.59		15.62	34,000	9,100				<800*	
	6/7/2007	19.74		15.47	46,000	7,100	410	870	2,400		
	9/28/2007	20.23	-	14.98	44,000	9,400	630	1,400	3,600	<0.5***	
MW-3	8/1/1994	<u>.</u>	·	<u></u>	<50	<0.5	<0.5	<0.5	<2.0		
33.97	12/21/1994	18.82		: 15.15	<50	< 0.5	<0.5	< 0.5	< 0.5		
33.77	3/13/1995	17.86		16.11	<50	< 0.5	< 0.5	< 0.5	<0.5		
				15.72							
	7/7/1995	18.25									
	9/28/1995	18.00		15.97							
	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		V		·			
			==								
	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		· <u></u> **					
	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	
				13.95	<50	<0.5	<0.5	< 0.5	< 0.5	<5.0	
	6/8/2001	20.02					<0.5	<0.5	<0.5	<5.0	
	8/27/2001	21,09		12.88	<50	<0.5					
	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							ď.
	12/22/2002		·	12.07						·	
					<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	1/23/2003	20.08		13.93							
	6/12/2003	20.95		13.06							
	7/23/2003	21,28		12.73		·				77	
		19,05		14.96			·				
	12/22/2003	19,03		11.70							
	12/22/2003 3/10/2004	18.22		15.79	<50	< 0.5	<0.5	<0.5	<0.5	<5.0	

Table 2. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID Sample ID	Date	Depth to Groundwater	SPH Thickness	Groundwater Elevation	ТРНд	Benzene	Toluene	Ethylbenzene	Xylenes	МТВЕ	Not
TOC (ft amsl)		(ft amsl)	(feet)	(feet)			(μg/L)			>	
MW-3	9/27/2004	21.03		12.98		<u></u> .			,		
(cont.)	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		221					
	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					<0.5	 <5,0*	-
	3/21/2007	18.44		15.57	<50	<0.5	<0.5	<0.5 		~5,0 	_
	6/7/2007	18.68		15.33 14.82						 	
	9/28/2007	19.19		14.82							
MW-4	10/28/1996	19.32		14.43	10,000	3,900	420	400 ·	360	<200*	r
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 ND		
	3/29/1999	18.35		15.40	ND	: ND	ND	ND ND	ND ND		
	6/23/1999	17.58		16.17	ND	ND	ND	ND 34	537		
	9/24/1999	19.05		14.70	9,150	3,270	131 275	424	592		
	12/23/1999	19.41		14.34 15.33	12,200 45,000	. 5,360 16,000	1,100	1,400	1,900	1400* /<35***	
	3/21/2000	18.42		14.93	33,000	10,000	720	840	1,800	<200*	
	7/3/2000 9/7/2000	18.82 19.21		14.54	26,000	8,800	800	740	1,500	<50***	.8
	12/5/2000	19.60		14.15	41,000	11,000	840	930	1,900	<200	
	3/6/2001	18,24		15.51	1,100	400	5.7	<0.5	20	<5,0	
	6/8/2001	20.91		12.84	92	19	<0.5	<0.5	1	<5.0	
•	8/27/2001	21.63		12.12	49,000	17,000	1700	1,700	3,200	<260	
	10/25/2001	21.70		12.05	57,000	16,000	1,500	1,600	2,600	<300	
	3/1/2002	21.53		12.22	400	140	2.3	< 0.5	12	<5.0*	
	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	
	12/22/2002	22,39		11.36	35,000	13,000	310	1,100	1,800	<1,500	
	1/23/2003	20.61		13.14	51,000	18,000	430	1,500	2,200	<5.0***	
	6/12/2003	21.20		12.55	80	12	<0.5	<0.5	1.0	<10	
	7/23/2003	21.51	·	12.24	20,000	7,600	100	65	660	<250	
	12/22/2003	19.60		14.15	26,000	9,500	200	380	1,100	<150	
	3/10/2004	18.81		14.94	14,000	4,800	150	320	530	<400	
	6/16/2004	19.32		14.43	2,800	1,100	24	17	100	<50 <25***	
	9/27/2004	21.45		12.30	45,000	16,000	260 160	1,700 8 90	2,000 1,200	<5.0***	
	12/22/2004	21.15		12.60	29,000	10,000		500	610	<600	
	3/3/2005	18.60		15.15 15.64	18,000 20,000	6,100	98 110	460	580	<500	
	6/9/2005 9/9/2005	18.11 18.65		15.10	17,000	6,400	100	470	730	<250	
	12/20/2005	19.01		14.74	26,000	8,500	160	640	800	<120	
	3/26/2006	17.84		15,91	1,900	700	22	49	85	<50	
	6/23/2006	17.96		15.79	12,000	3,400	130	370	510	260	
	9/7/2006	18.29		15.46	8,600	1,800	100	170	220	<210	
	12/29/2006	18,93		14,82	4,200	1,100	120	150	280	<150*/<0.5***	
	3/21/2007	18.76		14.99	550	. 30	2.0	4.5	5.1	<30*	
	6/7/2007	18.92		14.83	85	4.4	<0.5	0.77	0,82	<5.0*	
	9/28/2007	19.41		14.34	140	7.0	<0.5	1.2	<0.5	<0.5***	
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*	
- 1.00	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*	
	9/7/2000	19.62	'	15.01	<50	< 0.5	<0.5	<0.5	< 0.5	<5.0*	

Table 2. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID Sample ID	Date	Depth to Groundwater	SPH Thickness	Groundwater Elevation	трн _д	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Note
TOC (ft amsl)		(ft amsl)	(feet)	(feet)			—— (μg/L)				
MW-5	12/5/2000	20,25		14.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
(cont.)	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	8
				12.82	<50	5.3	<0.5	<0.5	0.66	<5.0	-
	12/22/2004	21.81					4.4	63	39	<150	
	3/3/2005	19.35		15.28	2,000	330	1.4	14	3.2	<5.0	,
	6/9/2005	18.73		15.90	250	42		71	3.2	<400	- '
	9/9/2005	19.30		15.33	2,000	390	5.0		38 150	<35	
	12/20/2005	19.65		14.98	4,300	760	18	170			
	3/26/2006	18,58	**	16.05	1,600	460	3.3	35	32	<50	
	6/23/2006	18.57		16.06	1,900	500	3,9	81	56	<17	
	9/7/2006	18.98		15.65	8,800	1,900	12	350	220	<260	í
	12/29/2006	19.70		14.93	15,000	3,400	69	610	700	<450*/<0.5***	
	3/21/2007	19.57		15.06	9,900	2,300	24	360	410	<240*	
	6/7/2007	19.70		14.93	14,000	3,800	40	790	720	<550*	
	9/28/2007	20.16		14.47	26,000	7,200	84	1,100	1,600	<25***	. ;
MW-6	10/28/1996	20.02		15.87	<50	<0.50	<0.50	<0.50	< 0.50	<2.0*	
35.89	12/12/1996	20.18		15.71	ND	ND	ND	ND	ND	ND*	
nual sampling)	3/31/1997	19.81		16.08		'					
nuai sampiing)	6/27/1997	19.76		16.13							
				15.83	ND	ND	ND	ND	ND	ND*	
	9/9/1997	20.06		15.99	ND	ND	ND	ND	ND		
	12/18/1997	19.90					ND ND	ND	ND	ND*	
	3/12/1998	18.00		17.89	ND	ND		ND ND	ND		
	6/22/1998	18,43		17,46	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*	
	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	
•	c (n (n n n n	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	
				14.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/25/2001	21.59		14.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	3/1/2002	21.33			<50	<0.5	<0.5	<0.5	<0.5	<5.0*	
	6/10/2002	21.97		13.92		~0.3 					
	9/3/2002	21.55		14.34	 -50		<0.5	<0.5	<0.5	<5.0	
	12/22/2002	22.25		13.64	<50	<0.5			<0.5	<5.0 <5.0	
	1/23/2003	20.47		15.42	<50	<0.5	<0.5	<0.5			
	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		2-17				·	
	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		, 14					
	9/9/2005	19.45		16.44		<u></u> -				".	
	12/20/2005	19.90		15,99		1 1 1 <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	'				
		18,85		17.04	<50	<0.5	<0.5	<0.5	<0,5	<5.0	
	3/26/2006					~0,3	-0.5				
	6/23/2006	18.57		17.32							
	9/7/2006	19.13		16.76		:			-	,	
	12/29/2006			15.93		/				<5.0*	
	3/21/2007	19.87		16.02	<50	<0.5	<0.5	<0.5	<0.5		
	6/7/2007	20.05		15.84							
	0.100.100.00	20.51		15.38				-		·	
	9/28/2007	20.51				•					
rip Blank	3/21/2000	20.31			<50	<0.5	<0.5	<0.5	<0.5	<5.0	

Table 2. Groundwater Elevations and Analytical Data - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID Sample ID	Date	Depth to Groundwater	SPH Thickness	Groundwater Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
TOC (ft amsl)		(ft amsl)	(feet)	(feet)			(μg/L)			
Grab Groundwater S	ample Results:										
SB-A	7/6/1995	~20		-	330	16	3.6	1.3	4.9		i,j
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		а.
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

Abbreviations, Methods, & Notes

TOC = Top of casing elevation

ft amsl = feet above mean sea level

SPH = Separate-phase hydrocarbons

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method SW8015C

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

1 = Not confirmed with EPA method 8260B.

 $\mu g/L = micrograms$ per liter, equivalent to parts per billion

-- = Not sampled, not analyzed, or not applicable

 $< n = Not detected in sample above <math>n \mu g/L$

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 x SPH thickness)

= The wellhead elevation was raised by 0.41 feet when well MW-1 was connected to the SVE system on October 31, 2003.

= 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.

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

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

Modified EPA Method SW8015, no TPHmo was detected.

h = Applytic sampling discontinued. Approved by Alameda County Department.

h = Analytic sampling discontinued. Approved by Alameda County Department of Environmental Health.

i = Lighter than gasoline range compounds are significant.

j = Gasoline range compounds having broad chromatographic peaks are significant.

k = No recognizable pattern.

1 = 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



APPENDIX A Field Data Sheet



WELL GAUGING SHEET

			VV IC.	LL GA	UUIIV	GSHEET
Client:	Conestoga-R	overs and A	ssociates			
Site Address:	1432 Harriso	n Street, Oa	kland, CA			1
Date:	9/28/2007			Signature:		
·						
Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	9:45		20.19		20.45	
MW-2	9:40		20.23		25,55	
2577.0	0.20		19.19	·	23.95	
MW-3	9:20	·	19,19		23:33	
MW-4	9:30		19.41		24.47	
MW-5	9:35		20.16		27.90	
MW-6	9.25		20.51		28.21	
			1			



			V LILIL						
Date:		9/28/2007				 		·	
Client:	. (Conestoga-R	overs and	Associate	s				
Site Addr	ess:	1432 Harriso	on Street, C	Dakland, C	CA				
Well ID:		MW-l							
Well Dian	neter:	4"				<u> </u>	· · · · · · · · · · · · · · · · · · ·	· .	
Purging D	evice:								
Sampling			-						
Total Wel	l Depth:			20.45	Fe=	mg/L	· · · · · · · · · · · · · · · · · · ·		
Depth to V				20.19	ORP=	mV	,		
	umn Height			0.26	DO=	mg/L			
Gallons/ft			٠.	0.65					
	Volume (gal):		0.17	СОММЕ	ENTS:			
	Volumes (ga			0.51	insufficen	t water, no sample tak	en		
o Cuomig	CASING VOLUME	ТЕМР		COND.					
TIME:	(gal)	(Celsius)	pН	(µS)	-				
]				
			G 1-						·
Sample ID:	Sample Da	ate:	Sample Time:	Contain	er Type	Preservative	Analytes	Method	·
				ļ					
1									•
				 					
				1					
			 	 -			<u> </u>	11	
		4 F					/		
1	1			1		Signatur	e: //		



		. V	V MILIE	2 01 11	11 2311	10 I OILII		
Date:		9/28/2007						
Client:		Conestoga-R	overs and	Associates	3			
Site Addre	ess:	1432 Harriso	on Street, C	Dakland, C	CA			
Well ID:		MW-2						
Well Diam	eter:	2"						
Purging De	evice:	Disposable I	Bailer			<u></u>		
Sampling 1	Method:	Disposable 1	Bailer					
Total Well	Depth:		·	25.55	Fe=	mg/L		
Depth to V	Vater:			20.23	ORP=	mV		
Water Col	umn Heigh	t:		5.32	DO=	mg/L		
Gallons/ft:				0.16				
1 Casing V	Volume (ga	D:		0.85	COMME	NTS:		
	Volumes (g			2.55	very turbic	d, very silty		
TIME:	CASING VOLUME (gal)	TEMP (Celsius)	рΗ	COND.				
11:07	0.9	20.7	6.90	1109	-].			
11:09	1.7	20.7	6.95	1085				
11:11	2.6	20.7	6.95	1075	7			
							:	
Sample ID:	Sample D	ate:	Sample Time:	Contain	er Type	Preservative	Analytes	
MW-2		8/2007	11:13	40 ml V0	OA .	HCI, ICE	TPHg BTEX MTBE	8015, 8021, 8260
					· .			
						Signatu	re:	



	- "					· · · · · · · · · · · · · · · · · · ·				
Date:		9/28/2007				·				
Client:		Conestoga-R	overs and	Associate	S					
Site Addr	ess:	1432 Harris	on Street, C	Dakland, (CA					
Well ID:		MW-4								. ,
Well Diam	eter:	2"								
Purging De	evice:	Disposable l	Bailer						-	
Sampling 1	Method:	Disposable	Bailer		- 					
Total Well	Depth:	·	<u> </u>	24.47	Fe=		mg/L			
Depth to V	Vater:			19.41	ORP=	:	mV			
Water Col	umn Height	•		5.06	DO=		mg/L			
Gallons/ft:				0.16						
	Volume (gal	·		0.81	СОММІ	·2TM	· · ·			
						J.(1.D.				
3 Casing \	Volumes (ga CASING	u): 		2.43	-					
	VOLUME	ТЕМР		COND.						
TIME:	(gal)	(Celsius)	pН	(µS)	-					
10:25	0.8	20.9	7.35	429	-					
10:27	1.6	20.9	7.31	425	4			•		
10:30	2.4	20.9	7.29	421	-					
	·				-					٠
Sample			Sample		!					
	Sample D	ate:	Time:	Contain	er Type	Preserv	vative	Analytes		
					,			TPHg	8015, 8021, 8260	
MW-4	9/28	3/2007	10:35	40 ml V	OA	HCI, IC	E	BTEX MTBE		
								MILE		
		\$					<u>.</u>			,
								 -		
							Cianata	· /	1	
	l		1	1		1	Signatu	re: ///		



					1G FURIN		
	9/28/2007		<u> </u>				
C	Conestoga-R	overs and	Associates	5			
ss: 1	432 Harriso	on Street, C	Dakland, C	CA			
eter: 2	2"					: 	
vice:]	Disposable I	Bailer					
Method:	Disposable 1	Bailer					
Depth:			27.90	Fe=	mg/L		
			20.16	ORP=	mV		
			7.74	DO=	mg/L		
ann morgae							
		· · ·		COMMI	FNTS.		
				COMINI	71 4 1 2 *		
	l):	1	3.72	1			
VOLUME	TEMP		COND.	1			
(gal)	(Celsius)	pН		-{	•		
				4			
				-{			
3.7	19.6	7.16	923	1			
	<u> </u>			-			
		Sample	Cartain	or Tuno	Drocaryativa	Anglytes	Method
Sample Da	ite:	1 HHe:	Contain	ei Type	Trescrivative	TPHg	8015, 8021, 8260
0/28	/2007	10:52	40 ml V	OA.	HCL ICE	BTEX	
9120	72007	10.52	TO III. V	<u></u>		MIBE	
				•			
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) 1. 							
	1.1				Signat	ure:	
	seter: 2 vice: J fethod: Depth: folume (gal) 1.2 2.5 3.7 Sample Da	MW-5 eter: 2" vice: Disposable I flethod: Disposable I Depth: vater: colume (gal): columes (gal): CASING VOLUME (gal) 1.2 19.5 2.5 19.5	Conestoga-Rovers and SS: 1432 Harrison Street, C MW-5 Ster: 2" Vice: Disposable Bailer Method: Disposable Bailer Depth: Sater: Solume (gal): CASING VOLUME TEMP (gal) (Celsius) pH 1.2 19.5 7.13 2.5 19.5 7.12 3.7 19.6 7.16 Sample Sample Time:	Conestoga-Rovers and Associates SS: 1432 Harrison Street, Oakland, C MW-5 Ster: 2" Vice: Disposable Bailer Method: Disposable Bailer Depth: 27.90 Vater: 20.16 Innn Height: 7.74 O.16 Colume (gal): 1.24 Columes (gal): 3.72 CASING VOLUME TEMP (gal) (Celsius) pH (µS) 1.2 19.5 7.13 928 2.5 19.5 7.12 921 3.7 19.6 7.16 925 Sample Date: Contain	Conestoga-Rovers and Associates ss: 1432 Harrison Street, Oakland, CA MW-5 eter: 2" vice: Disposable Bailer Method: Disposable Bailer Depth: 27.90 Fe= Vater: 20.16 ORP= min Height: 7.74 DO= Colume (gal): 1.24 COMMI Columes (gal): 3.72 CASING VOLUME (Gal) (Celsius) pH (µS) 1.2 19.5 7.13 928 2.5 19.5 7.12 921 3.7 19.6 7.16 925 Sample Date: Container Type	Conestoga-Rovers and Associates ss: 1432 Harrison Street, Oakland, CA MW-5 ster: 2" vice: Disposable Bailer Method: Disposable Bailer Depth: 27.90 Fe= mg/L ater: 20.16 ORP= mV mm Height: 7.74 DO= mg/L folume (gal): 1.24 COMMENTS: Colume (gal): 3.72 CASING VOLUME (Celsius) PH (ps) 1.2 19.5 7.13 928 2.5 19.5 7.12 921 3.7 19.6 7.16 925 Sample Date: Container Type Preservative 9/28/2007 10:52 40 ml VOA HCl, ICE	Conestoga-Rovers and Associates ss: 1432 Harrison Street, Oakland, CA MW-5 ster: 2" vice: Disposable Bailer Depth: 27.90 Fe= mg/L dater: 20.16 ORP= mV mn Height: 7.74 DO= mg/L colume (gal): 3.72 CASING VOLUME (gal) (Celsius) pH (µS) 1.2 19.5 7.13 928 2.5 19.5 7.12 921 3.7 19.6 7.16 925 Sample Date: Container Type Preservative Analytes TPHg BTEX



APPENDIX B Laboratory Analytical Report

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

Conestoga-Rovers & Associates	Client Project ID: #540188; Borsuk	Date Sampled: 09/28/07
5900 Hollis St, Suite A		Date Received: 09/28/07
77 711 04 04000	Client Contact: Mark Jonas	Date Reported: 10/04/07
Emeryville, CA 94608	Client P.O.:	Date Completed: 10/04/07

WorkOrder: 0709708

October 04, 2007

Dear Mark:

Enclosed are:

- 1). the results of 3 analyzed samples from your #540188; Borsuk project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Best regards,

Angela Rydelius, Lab Manager

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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

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Project#: 5년()	188		P	rojec	t Nar				V.V.				1 ‡	muninium.	991)	3	MAK	03.7	(gg)	Åre		rbici		8	Na.	99/	/ 603	ĝ.		mannan	
Project Location:	ەبلا 32 كىل	ىمۇرىيى	تميرحت	1.2		البراب	كحمد	s oli		Ô	1	************	1008 / 2009)		ense	Hon) 172	9 ¥ 9	ž	1.7.	cide	He	Ő	Š	2	60.8	8.0	99.			
Sampler Signatur	e: <u> </u>			$\Delta C \cap$	1	*			- 2	AZ Mil	TH	OD	48		Š	200	8/0	8	ĝ	Ĉ,	Pest	Gic C	3	80	8	5	313	9109	Z.	nucliarity.	
		SAMP	LING	86	S a	\Box	IAI	RIX		PRE	SER	VII	ž Š	(STO	OHE	Пyd	/801	Ź	180	Ş	S.	(A.c.	1826	183	(83)	88	000	0.8	30		
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Shidge	Other	5	3 3	ENC.	BTEX & TPH as	TPH as Diesal (8015)	Total Petroleum Oil & Grense (1664 / 5520 E/B&P)	Total Petroleum Hydrocarbons (418.1)	RPA 507.27 601.7 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (RPA 602 / 8021)	RPA 508/ 608 / 8081 (C1 Perticides)	EPA 668 8082 PCB's ONLY; Aroclars / Cangeners	EPA 507 (8141 (NP Pexicides)	EPA 518 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA \$270 SIM (8310 (PAH) (PNAS)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT S Metalk (200,7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Mr. 67 8310	- The second	
M)-2-		9-28-07	n:::3	Ŋ	VQ¢	N				À /	3		1 _X								<u> </u>	L				ļ			<u> </u>		
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Relinquished By:		Date: 9/2/6			eived	1000	C.	2.		74	_			TEAL	D SP.	ACE.	ABS	ent	Sugar	1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				CC)MM	ENT	S:	
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McCampbell Analytical, Inc.



Report to:

Mark Jonas

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

Conestoga-Rovers & Associates

5900 Hollis St, Suite A

Emeryville, CA 94608

PO:

CHAIN-OF-CUSTODY RECORD

Emeryville, CA 94608

Page 1 of 1

Date Printed: 09/28/2007

			WorkO	rder: 070970	itID: CETE	CETE			
		☐ EDF	Excel	Fax Email		HardCopy	ThirdParty		
			В	ill t		Re	Requested TAT:		
TEL:	mjonas@CRAwor (510) 420-070 #540188; Borsuk	FAX: (510)	420-917	Accounts Pa Conestoga- 5900 Hollis	Rovers & Assoc	Di	ite Received		
riojectivo.	#340100, D0134K				•	_		00/00/00/00	

ClientID: CETE

						Requested Tests (See legend below)										
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0709708-001	MW-2	Water	9/28/2007		Α	В	Α				Ţ <u> </u>					
0709708-002	MW-4	Water	9/28/2007	1	Α	В	<u> </u>	-			 	-	<u> </u>			
0709708-003	MW-5	Water	9/28/2007		A	В					ـــــــــــــــــــــــــــــــــــــ	<u> </u>	L		<u> </u>	Ь.

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Test_Legenu.				
C METERY MA	2 MTBE W	3 PREDF REPORT	4	5
1 G-MBTEX_W	Z			10
6	7	8	9	10]
6	40			

Prepared by: Elisa Venegas

Comments:

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



Comments:

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

Sample Receipt Checklist

Client Name:	Conestoga-Rove	rs & Assoc	iates			Date an	d Time Received:	9/28/2007	4:54:42 PM	
Project Name:	#540188; Borsuk					Checkli	st completed and r	eviewed by:	Maria Venegas	i
WorkOrder N°:	0709708	Matrix Wate	<u>er</u>	÷		Carrier:	Client Drop-In			
			Chain of Cu	stody	(COC) Informat	<u>ion</u>			
Chain of custody	present?		Yes	•		No 🗆				
Chain of custody	signed when relinqui	shed and rece	eived? Yes	V		No 🗆				
Chain of custody	agrees with sample I	labels?	Yes	V		No 🗌				
Sample IDs noted	d by Client on COC?		Yes	V		No □				
Date and Time or	f collection noted by CI	ient on COC?	Yes	V		No 🗆				
Sampler's name	noted on COC?		Yes	✓		No \square				•
			Sample	Rece	ipt Inf	formation				
Custody seals in	ntact on shipping conta	ainer/cooler?	Yes			No 🗆		NA 🔽		
	ner/cooler in good cond		Yes	V		No 🗆				
	er containers/bottles?		Yes	V		No 🗆				
Sample contain	ers intact?		Yes	✓		№ □				
Sufficient sampl	le volume for indicated	I test?	Yes	V		No □				
		Sampl	e Preservatio	n and	l Hold	Time (HT)) Information			
All samples rece	eived within holding tin		Yes	_		No 🗆				
•	Blank temperature		Cool	ler Ten	np:			NA 🗹		
•	als have zero headspa	ace / no bubbl	les? Yes	V		No 🗆	No VOA vials sub	mitted 🗆		
	checked for correct pre		Yes	V		No 🗌				
TTLC Metal - pl	H acceptable upon rece	eipt (pH<2)?	Yes			No 🗆		NA 🗹		
		=====			==	===		====	=====	
Client contacted	d:	Dat	te contacted:				Contact	ed by:		

_	W.

McCampbell Analytical, Inc.

"When Quality Counts

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

Conestoga-Rovers & Associates	Client Project ID: #540188; Borsuk	Date Sampled: 09/28/07
5900 Hollis St, Suite A		Date Received: 09/28/07
F	Client Contact: Mark Jonas	Date Extracted: 10/01/07
Emeryville, CA 94608	Client P.O.:	Date Analyzed 10/01/07

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

Extraction m	ethod SW5030B		Analy	Work Order	r: 0709	708				
ab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	w	44,000,a		9400	630	1400	3600	50	112
002A	MW-4	w	140,a		7.0	ND	1.2	ND	1	105
003A	MW-5	w	26,000,a		7200	84	1100	1600	50	116
		-							-	-
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Panari	ting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		μд
	ans not detected at or	W	50 NA	5.0 NA	NA NA	NA NA	NA NA	NA	1	mg

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

NA

NA

NA

above the reporting limit

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

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	•

McCampbell Analytical, Inc.

"When Ouality Counts"

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

Conestoga-Rovers & Associates	Client Project ID: #540188; Borsuk	Date Sampled: 09/28/07
5900 Hollis St, Suite A		Date Received: 09/28/07
	Client Contact: Mark Jonas	Date Extracted: 10/03/07-10/04/07
Emeryville, CA 94608	Client P.O.:	Date Analyzed 10/03/07-10/04/07

		Cheneries:									
Methyl tert-Butyl Ether* Analytical methods SW5030B Work Order: 0709708											
Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)								
001B	MW-2	w	ND	1	90						
002B	MW-4	w	ND	1	102						
003B MW-5		w	ND<25,j	50	97						
					<u> </u>						
			·								
					ļ						
					\perp						
	ing Limit for DF =1;	w	0.5		μg/L						
ND me	ans not detected at or	C	NΑ		NΙΛ						

ND means not detected at or	S	NA	NA
above the reporting limit			
* water and vapor samples are reported in µg/L, soil/slu	dge/solid samp	les in mg/kg, product/oil/non-aqueous liquid samples and a	I TCLP & SPLP

extracts are reported in mg/L, wipe samples in µg/wipe.

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

Angela Rydelius, Lab Manager

[#] surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0709708

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 30938			Spiked Sample ID: 0709682-012A				
Analyta	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
Analyte	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	60	103	94.9	8.05	109	102	7.11	70 - 130	30	70 - 130	30
MTBE	ND	10	88.8	96.9	8.77	99.8	87.5	13.1	70 - 130	30	70 - 130	30
Benzene	ND	10	98.4	95.8	2.55	102	95	6.73	70 - 130	30	70 - 130	30
Toluene	ND	10	101	95.4	5.62	93.6	95.9	2.48	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	95.5	90.5	5.18	104	101	3.53	70 - 130	30	70 - 130	30
Xylenes	ND	30	95.3	90.7	5.02	103	113	9.23	70 - 130	30	70 - 130	30
%SS:	102	10	107	107	0	102	90	12.3	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 30938 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed	_
0709708-003A	09/28/07 10:52 AM	10/01/07	10/01/07 7:39 PM					J

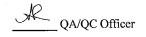
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0709708

EPA Method SW8260B	Extra	Extraction SW5030B					BatchID: 30939			Spiked Sample ID: 0709682-011B				
A b.d-	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	ptance	Criteria (%))		
Analyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
Methyl-t-butyl ether (MTBE)	ND	10	88.6	90	1.64	95.3	92.6	2.89	70 - 130	30	70 - 130	30		
%SS1:	102	10	98	98	0	97	96	0.556	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 30939 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0709708-001B	09/28/07 11:13 AM	10/03/07	10/03/07 4:43 AM	0709708-002B	09/28/07 10:35 AM	10/03/07	10/03/07 3:58 AM
0709708-003B	09/28/07 10:52 AM	10/04/07	10/04/07 4:26 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.

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0709708

EPA Method SW8021B/8015Cm	Extra	Extraction SW5030B				BatchID: 30940			Spiked Sample ID: 0709683-003B			
A I f -	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	1
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btexf	ND	60	99.6	102	2.66	103	92.7	10.1	70 - 130	30	70 - 130	30
MTBE	ND	10	85.7	83.3	2.87	99	93.3	5.93	70 - 130	30	70 - 130	30
Benzene	ND	10	95.1	94.9	0.193	97.7	87.9	10.5	70 - 130	30	70 - 130	30
Toluene	ND	10	91.1	91.1	. 0	95.9	85.8	11.1	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	98.2	100	2.08	96.8	92	5.16	70 - 130	30	70 - 130	30
Xylenes	ND	30	110	113	2.99	91	85.3	6.43	70 - 130	-30_	70 - 130	30
%SS:	111	10	91	90	1.32	104	104	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 30940 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0709708-001A	09/28/07 11:13 AM	10/01/07	10/01/07 7:05 PM	0709708-002A	09/28/07 10:35 AM	10/01/07	10/01/07 7:17 PM

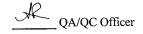
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.





APPENDIX C

Benzene Concentration and Depth to Water Time-Series Graphs

