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· .			IRA	4NS	IVIIII I /	<u> </u>	
DATE:	June 14	, 2013		REFE	RENCE NO	·.:	241501
				Proj	ест Nамі	l :	461 8th Street, Oakland
То:	Jerry W	ickham					
	Alamed	la County Environn	nental He	ealth			CEIVED
	1131 Ha	arbor Bay Parkway,	Suite 250)		By A	lameda County Environmental Health at 3:05 pm, Jun 21,
-	Alamed	la, California 94502-	-6577			_	
_						_	
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QUANT	ГІТҮ				DESCR		ON
1		Groundwater Mon	itoring R	Report			
	equested our Use		For F	Review	and Comn	nent	
COMMEN	NTS:	•					
If you have	e any qu						olease call the CRA project manager
Peter Scha	efer at (5	510) 420-3319 or the	Shell pro	gram	manager l	Perry	Pineda at (425) 413-1164.
Copy to:	I	Perry Pineda, Shell (Dil Produ	icts US	(electron	ic cop	py)
oopy us.	P	Oakland, CA 94612					Ogawa Plaza, 3 rd Floor, Suite 3341, Spivey, 1000 Broadway, Suite 300,
		•	ers Nave	e, 555 1	.2 th Street,	Suite	e 1500, Oakland, CA 94607
		Grover Buhr, Tready					
Completed	d by: I	Peter Schaefer			Signed:	P	eth Schafe
Filing: C	orrespor	ndence File			-	7	



Mr. Jerry Wickham Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Shell Oil Products US

Soil and Groundwater Focus Delivery Group 20945 S. Wilmington Avenue Carson, CA 90810 Tel (425) 413 1164 Fax (425) 413 0988 Email perry.pineda@shell.com Internet http://www.shell.com

Re:

461 8th Street

Oakland, California SAP Code 129453 Incident No. 97093399

ACEH Case No. RO0000343

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (425) 413-1164 with any questions or concerns.

Sincerely, Shell Oil Products US

Perry Pineda

Senior Environmental Program Manager



GROUNDWATER MONITORING REPORT - SECOND QUARTER 2013

FORMER SHELL SERVICE STATION 461 8TH STREET OAKLAND, CALIFORNIA

SAP CODE

129453

INCIDENT NO.

97093399

AGENCY NO.

RO0000343

JUNE 14, 2013 REF. NO. 241501 (33) This report is printed on recycled paper.

Prepared by: Conestoga-Rovers & Associates

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VICINITY MAP

FIGURE 2

GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP

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GROUNDWATER DATA

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BLAINE TECH SERVICES, INC. - FIELD NOTES

APPENDIX B

TESTAMERICA LABORATORIES, INC. - ANALYTICAL REPORTS

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 SITE INFORMATION

Site Address

461 8th Street, Oakland

Site Use

Parking lot

Shell Project Manager

Perry Pineda

CRA Project Manager

Peter Schaefer

Lead Agency and Contact

ACEH, Jerry Wickham

Agency Case No.

RO0000343

Shell SAP Code:

129453

Shell Incident No.

97093399

Date of most recent agency correspondence was November 27, 2012 (electronic).

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2), and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory reports are presented in Appendix B.

2.2 <u>CURRENT QUARTER'S FINDINGS</u>

Groundwater Flow Direction

Westerly to southerly

Hydraulic Gradient

Variable

Depth to Water

18.59 to 26.48 feet below top of well casing

2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the established monitoring program for the site. The site is monitored quarterly, and CRA will issue groundwater monitoring reports semiannually following the second and fourth quarter sampling events.

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

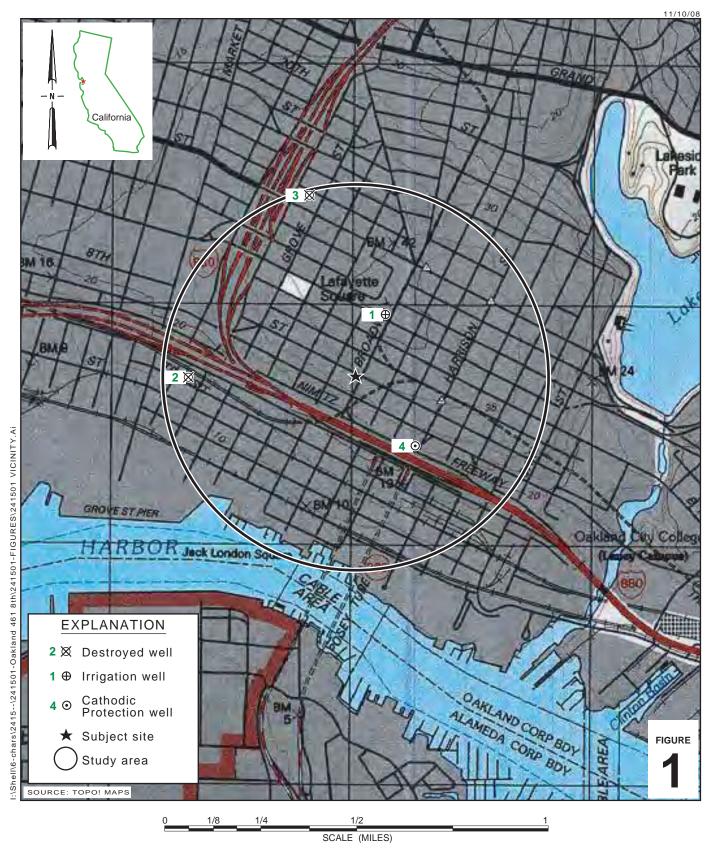
Peter Schaefer, CEG, CHG

PETER L SCHAEFER NO. 5612

A. Tel for.

Aubrey K. Cool, PG

FIGURES

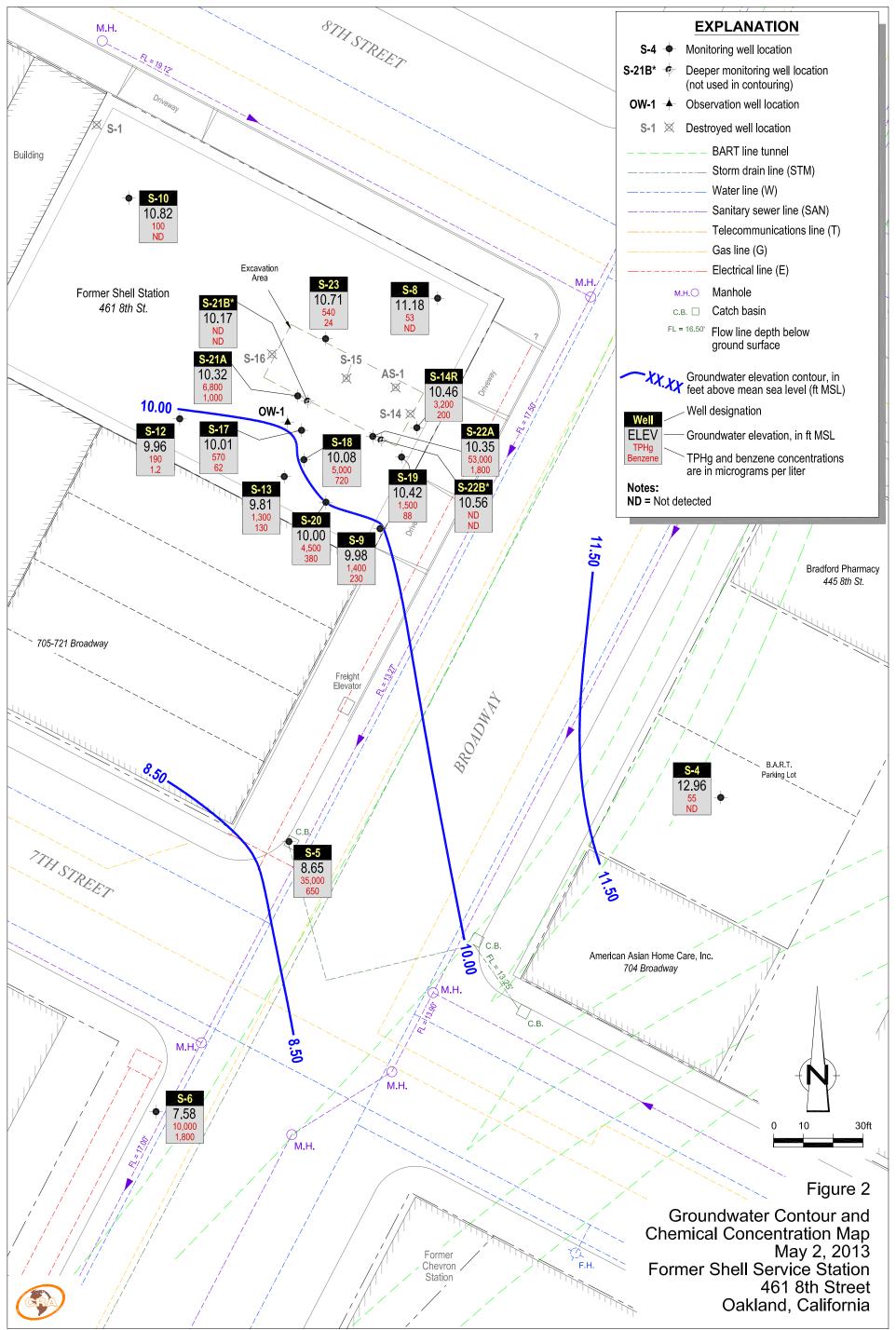


Former Shell Service Station

461 8th Street Oakland, California



Vicinity Map



TABLE

TABLE 1

							MTBE	MTBE								Depth to	SPH	GW			
Well ID	Date	TPHg	В	T	E	· X	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water	Thickness	Elevation	DO	ORP	
		(μg/L)	$(\mu g/L)$	(μg/L)	(μg/L)	(μg/L)	$(\mu g/L)$	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)	
S-4	10/26/1988	130	3.8	13	4.0	30									93.51	·	partition.				
S-4	02/14/1989	<50	0.50	<1.0	<1.0	3.0									93.51	12.82		80.69			
S-4	05/01/1989	Well dry			-1.0										93.51	16.48		77.03			
S-4	07/27/1989	Well dry													93.51	15.84		77.67			
S-4	10/05/1989	Well dry													93.51	15.98		77.53			
S-4	01/09/1990	Well dry													93.51	15.86		77.65			
S-4	04/30/1990	<50	< 0.50	< 0.50	<0.50	<1.0									93.51	14.48		79.03			
S-4	07/31/1990	Well dry	~0.50		. 40.50										93.51						
S-4	10/30/1990	Well dry						-							93.51						
5-4 S-4	05/06/1991	Well dry													93.51	15.23		78.28			
5-4 S-4	06/27/1991	<50	< 0.50	< 0.50	< 0.50	< 0.50									93.51	13.54		79.97			
S-4	09/24/1991	Well dry													93.51	15.85		77.66			
		,													93.51	15.60		77.91			
S-4	11/07/1991 02/13/1992	Well dry <50	<0.50	<0.50	<0.50	3.0									93.51	14.27		79.24			
S-4	, ,														93.51						
S-4	05/11/1992	Well dry													93.51						
S-4	12/03/1992														93.51	14.81		78.70			
S-4	05/13/1993														93.51	14.61		79.09			
S-4	07/22/1993																				
S-4	10/20/1993														93.51	14.60		 70.01			
S-4	01/25/1994											******			93.51	14.60		78.91			
S-4	04/25/1994									~~~					93.51	14.39		79.12			
S-4	07/21/1994	<50	<0.50	< 0.50	<0.50	< 0.50									93.51	22.29		71.22			
S-4	10/24/1994	<500	< 0.50	< 0.50	< 0.50	< 0.50									93.51	22.72		70.79			
S-4	12/22/1994	<50	<0.50	<0.50	<0.50	<0.50									25.77	22.25		3.52			
S-4	04/20/1995	<50	< 0.50	< 0.50	< 0.50	< 0.50									25.77	21.16		4.61			
S-4	10/04/1995	<50	1.2	0.70	< 0.50	< 0.50									25.77	22.25		3.52			
S-4	01/03/1996	<50	0.60	< 0.50	< 0.50	1.7									25.77	23.28		2.49			
S-4	04/11/1996	<50	<0.50	< 0.50	<0.50	< 0.50	<2.5								25.77	21.58	·	4.19			
S-4	07/11/1996	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5			***					25.77	21.60	~~~	4.17			
S-4	10/02/1996	<50	< 0.50	< 0.50	< 0.50	< 0.50	2.6								25.77	22.46		3.31			
S-4	01/22/1997	< 50	0.73	< 0.50	< 0.50	0.63	<2.5	·							25.77	20.06		5.71			
S-4	07/21/1997	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5								25,77	22.10		3.67			
S-4	01/22/1998	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5								25.77	20.50		5.27			
S-4	07/08/1998	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5								25.77	20.86		4.91			
S-4	10/26/1998														25.77	21.41		4.36			
S-4	01/28/1999	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5					****			25.77	22.34	`	3.43			
S-4	04/23/1999														25.77	21.43		4.34			
S-4	07/29/1999	< 50.0	< 0.500	< 0.500	< 0.500	< 0.500	< 5.00								25.77	21.45		4.32			
S-4	11/01/1999						<u></u>								25.77	22.08		3.69			
S-4	01/07/2000	< 50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5								25.77	22.29		3.48			
S-4	04/11/2000														25.77	21.11		4.66			
S-4	07/19/2000	<50.0	< 0.500	< 0.500	< 0.500	< 0.500	<2.50								25.77	21.19	-	4.58			

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	X (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (μg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-4	10/12/2000				,										25.77	22,22		3.55		
S-4	01/09/2001	<50.0	< 0.500	< 0.500	< 0.500	< 0.500	<2.50								25.77	22.17		3.60		
S-4	04/06/2001														25.77	21.50		4.27		
S-4	07/25/2001	< 50	2.0	0.52	< 0.50	1.0		<5.0							25.77	21.50		4.27		
S-4	11/01/2001														25.77	21.95		3.82		
S-4	01/17/2002	<50 d	<0.50 d	<0.50 d	<0.50 d	<0.50 d		<5.0 d							25.77	21.13		4.64		
S-4	05/08/2002													·	25.77	21.35		4.42		
S-4	07/18/2002	< 50	< 0.50	< 0.50	< 0.50	< 0.50		< 5.0							34.41	21.19		13.22		
S-4	10/15/2002		*****												34.41	21.42		12.99		
S-4	01/02/2003	< 50	< 0.50	< 0.50	< 0.50	< 0.50		< 5.0							34.41	20.75		13.66		
S-4	04/15/2003														34.41	21.08		13.33		
S-4	07/14/2003														34.41	19.93		14.48		
S-4	10/20/2003														34.41	19.56		14.85		
S-4	01/22/2004	< 50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.41	19.12		15.29		
S-4	04/19/2004														34.41	19.15		15.26		
S-4	07/13/2004						'								34.41	20.48		13.93		
S-4	10/28/2004													·	34.41	21.00		13.41		
S-4	01/17/2005	< 50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.41	20.17		14.24		
S-4	04/14/2005														34.41	19.82		14.59		
S-4	07/28/2005		*****												34.41	20.71		13.70		
S-4	10/05/2005														34.41	20.85		13.56		
S-4	02/09/2006	<50.0	< 0.500	< 0.500	< 0.500	< 0.500		< 0.500							34.41	19.47		14.94		
S-4	05/15/2006													·	34.41	19.52		14.89		
S-4	08/23/2006														34.41	20.75		13.66		
S-4	11/15/2006				-										34.41	20.03		14.38		
S-4	01/30/2007	< 50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.41	21.30		13.11		
S-4	05/29/2007									:					34.41	21.15	'	13.26		
S-4	08/15/2007														34.41	21.38		13.03		
S-4	11/28/2007														34.41	21.55		12.86		
S-4	02/08/2008	64 f	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	34.41	22.75		11.66	ben and real	
S-4	05/08/2008										·				34.41	22.18		12.23		
S-4	08/14/2008														34.41	21.77		12.64		
S-4	11/11/2008														34.41	20.68		13.73		
S-4	01/05/2009	250	1.8	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	34.41	20.92		13.49		
S-4	04/09/2009														34.41	21.10		13.31		
S-4	07/23/2009														34.41	21.76		12.65		
S-4	10/01/2009														34.41	22.10		12.31		
S-4	01/28/2010	< 50	< 0.50	<1.0	<1.0	<1.0						·			34.41	21.75		12.66		
S-4	05/20/2010														34.41	21.44		12.97		
S-4	08/31/2010														34.41	21.72		12.69		
S-4	12/29/2010	*****		·	·										34.41	20.91		13.50		****
S-4	02/01/2011	< 50	< 0.50	< 0.50	< 0.50	1.1								·	34.41	21.19		13.22	1.84	15 <i>7</i>

Well ID	Date	TPHg (µg/L)	B (µg/L)	Τ (μg/L)	E (µg/L)	X (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-4	04/25/2011														34.41	17.32		17.09		
S-4	07/28/2011														34.41	20.92		13.49		
S-4	10/28/2011														34.41	21.35		13.06		
S-4	05/07/2012	240	86	22	9.5	25									34.41	20.65		13.76	2.52	119
S-4	05/02/2013	55	<0.50	<0.50	<0.50	<1.0								'	34.41	21.45		12.96		
S-5	04/16/1987	130,000	15,000	16,000	a	14,000			·						99.36	~~~				
S-5	10/26/1988	110,000	20,000	25,000	2,300	10,000									99.36					
S-5	02/14/1989	94,000	16,000	21,000	1,800	10,000					~~~				99.36	19.87		79.49		
S-5	05/01/1989	120,000	29,000	35,000	3,100	15,000									99.36	21.23		78.13		
S-5	07/27/1989	110,000	20,000	29,000	2,400	14,000									99.36	20.41		78.95		
S-5	10/05/1989						~~~								99.36	20.43	0.01	78.94		
S-5	01/09/1990														99.36	21.16	0.01	78.21		
S-5	04/30/1990	100,000	13,000	22,000	2,100	11,000									99.36	20.96		78.40		
S-5	07/31/1990	53,000	8,300	14,000	1,200	7,400									99.36	20.88		78.48		
S-5	10/30/1990														99.36	21.96	0.03	77.42		
S-5	05/06/1991						'								99.36	23.00	0.13	76.46		
S-5	06/27/1991														99.36	20.53	0.03	78.85	·	
S-5	09/24/1991														99.36	21.40	0.06	78.01		
S-5	11/07/1991	and Annie and												*****	99.36	21.33	0.25	78.23		*****
S-5	02/13/1992														99.36	22.52	0.31	77.09		
S-5	05/11/1992								`		~~~				99.36	22.46	0.58	77.36		
S-5	12/03/1992	Well inacc	essible												99.36					
S-5	05/13/1993														99.36	22,22	0.27	77.36		
S-5	07/22/1993														99.36	21.68	0.25	77.88		
S-5	10/20/1993														99.36	20.51	0.23	79.03		
S-5	01/25/1994							~~~							99.36	21.93	0.18	77.57		
S-5	04/25/1994									****					99.36	21.97	0.35	77.67		
S-5	05/26/1994														99.36	20.84	0.35	78.80		
S-5	06/10/1994														99.36	21.01	0.32	78.61		
S-5	07/21/1994														99.36	22.18	0.47	77.56	-	
S-5	08/25/1994														99.36	22.01	0.44	77.70		
S-5	09/22/1994								product						99.36	22.00	0.15	77.48		
															99.36	22.28	0.56	77.53		
S-5	10/24/1994														22.94	22.88	0.99	0.85		
S-5	12/22/1994		and parties												22.94	21.66	0.33	1.54		
S-5	04/20/1995																			
S-5	10/04/1995														22.94	22.18	0.00	0.76		
S-5	01/03/1996														22.94	22.80	0.83	0.80		
S-5	04/11/1996										'				22.94	21.15	0.67	2.33		
S-5	07/11/1996			,		***									22.94	22,62	0.90	1.04		
S-5	10/02/1996														22.94	23.07	0.64	0.38		
S-5	01/22/1997														22.94	20.83	0.16	2.24		

							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	TPHg	\boldsymbol{B}	T	E	\boldsymbol{X}	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water	Thickness	Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	$(\mu g/L)$	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μ g/ L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-5	07/21/1997														22.94	21.16	0.05	1.82		
S-5	01/22/1998														22.94	20.04	0.04	2.93		
S-5	07/08/1998	220	14	40	5.8	34	3.3								22.94	18.61		4.33		
S-5	10/26/1998														22.94	17.31		5.63		
S-5	01/28/1999	51,000	13,000	1,200	1,200	2,400	2,400								22.94	20.11		2.83		
S-5	04/23/1999	65,600	2,540	7,300	1,790	9,840	<1,000							-	22.94	19.21		3.73		
S-5	07/29/1999	61,400	3,320	6,980	1,520	7,700	<1,000								22.94	14.77		8.17		
S-5	11/01/1999	48,200	2,700	5,740	1,290	7,850	<500	<40.0							22.94	15.56		7.38		
S-5	01/07/2000	39,000	3,900	8,500	790	8,300	1,500								22.94	15.82		7.12		
S-5	04/11/2000	29,300	1,680	5,060	1,130	6,220	<250								22.94	18.19		4.75		
S-5	07/19/2000	6,420	2,110	207	252	681	355	253 b							22.94	19.01		3.93		
S-5	10/12/2000	41,500	2,940	4,940	1,520	7,770	<250	<66.7	-						22.94	19.62		3.32	. 	
S-5	01/09/2001	142,000	7,030	9,550	2,340	12,600	779								22.94	19.94		3.00		
S-5	04/06/2001	Well inacc													22.94					-
S-5	04/13/2001	59,800	4,810	10,800	1,950	10,100	842	<10.0							22.94	14.72		8.22		
S-5	07/25/2001	71,000	2,900	6,800	1,700	9,100		<250							22.94	14.91		8.03		
S-5	08/13/2001					,									22.94	19.43		3.51		
S-5	11/01/2001	Unable to													22.94					
S-5	01/17/2002	58,000 d	460 d	3,300 d	1,900 d	8,400 d		<200 d							.C	14.27				
S-5	05/08/2002	60,000 d	d	2,700 d	1,800 d	8,800 d		<100 d							22.94	18.40		4.54		
S-5	07/18/2002	53,000	240	1,200	1,500 u	6,400		<100 d		***					27.36	14.25		13.11		
S-5	10/15/2002	Well inacc													27.36					
S-5	10/13/2002	42,000	420	1,100	1,200	5,500		<10			*****				27.36	14.90		12.46		
S-5	01/02/2003	26,000	680	1,500	780	3,800		<5.0							27.36	14.72		12.64		
S-5	04/15/2003	3,600	29	38	65	370		<5.0							e e	14.45				
S-5	07/14/2003	21,000	210	460	650	2,900		<10							e	14.10			-	
5-5 S-5	10/20/2003	37,000	390	590	870	3,500		<13	and the						e	14.63				
5-5 S-5	01/22/2004	29,000	200	210	710	2,400		<13							e	14.08				
S-5	04/19/2004	25,000	490	460	750	2,400		19			<u></u>				e	13.43				
	07/13/2004	28,000	300	280	690	2,400		<13							e	14.88				
S-5					1,400	3,350		<10					<5.0	<10	e	16.65				
S-5	08/14/2008	31,000	1,700 2,500 i	1,600	2,000 i	3,490 i		<50 i					<25 i	<50 i	e	16.81		pa		
S-5	11/11/2008	37,000 i	•	1,300 i				<50 i					<25 j	<50 i	e	16.81				
S-5	11/11/2008	40,000 j	2,300 j	1,400 j	1,900 j	3,630 j		<10					<5.0	<10	e	16.71				
S-5	01/05/2009	57,000	2,300	1,400	1,500	2,900							<10	<20	e	16.31	·		0.3	163
S-5	04/09/2009	52,000	2,100	3,500	1,900	5,400		<20								16.62			1.48	-84
S-5	07/23/2009	37,000	1,800	1,900	1,400	3,800									e 27.24			10.89		-5 4
S-5	10/01/2009	36,000	1,800	1,900	1,400	3,700									27.24	16.35			0.86	-32
S-5	01/28/2010	35,000	1,200	1,900	1,500	3,600					-				27.24	16.35		10.89	1.00	
S-5	05/20/2010	36,000	1,600	2,500	1,700	4,500									27.24	16.50		10.74	1.22	227
S-5	08/31/2010	32,000	1,300	1,100	1,600	3,400							~~~		27.24	16.95		10.29	0.58	-102
S-5	12/29/2010	26,000	970	1,500	1,500	3,200									27.24	16.25		10.99	1.18	233
S-5	02/01/2011	27,000	1,100	1,500	1,400	3,100									27.24	15.38		11.86	1.65	-8 3

		•			•															
							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	TPHg	В	T	· E	\boldsymbol{X}	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water		Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-5	04/25/2011	70,000	380	440	720	1,200									27.24	13.98		13.26	0.95	-109
<i>3-</i> 5 S-5	07/28/2011	21,000	340	430	570	1,000									27.24	13.80		13.44	0.71	- 95
			430	480	570 570	1,300									27.24	14.28		12.96	6.05	190
S-5	10/28/2011	23,000													27.24	13.82	, 	13.42	3.61	120
S-5	05/07/2012	16,000	150 .	200	350	760									27.24	14.68		12.56	1.38	253
S-5	08/31/2012	12,000	330	300	330	850									27.24	16.00		11.24	1.07/1.29	
S-5	12/11/2012	14,000	420	700	550	1,500									27.24			10.78	•	102/03
S-5	01/24/2013	29,000	910	1,700	1,200	2,700				*****					27.24 27.24	16.46		8.65		
S-5	05/02/2013	35,000	650	1,500	1,400	4,500						~			27.24	18.59		0.03		
S-6	04/16/1987	81,000	16,000	9,000	a	6,400									100.58					
			29,000		2,500	8,200									100.58					
S-6	10/26/1988	110,000		18,000		4,000									100.58	20.87		79.71		
S-6	02/14/1989	54,000	18,000	4,500	1,400										100.58	20.49		80.09		
S-6	05/01/1989	93,000	43,000	9,900	3,000	8,000												79.57		
S-6	07/27/1989	52,000	20,000	3,200	1,700	5,500									100.58	21.01		79.34		
S-6	10/05/1989	55,000	20,000	2,900	1,600	5,500									100.58	21.24	Chaan			
S-6	01/09/1990	76,000	35,000	9,100	2,300	8,600									100.58	22.62	Sheen	77.96		
S-6	04/30/1990	39,000	13,000	2,300	900	2,800				,					100.58	22.10		78.48		
S-6	07/31/1990	48,000	20,000	4,600	1,500	4,900									100.58	22.00		78.58		
S-6	10/30/1990	27,000	7,400	900	600	1,400									100.58	22.14		78.44		
S-6	05/06/1991	35,000	3,900	2,700	2,300	3,500									100.58	22.40		78.18		
S-6	06/27/1991	51,000	19,000	5,600	1,700	6,300									100.58	21.21		79.37		,
S-6	09/24/1991	42,000	14,000	4,300	1,200	4,000						~~~			100.58	22.26		78.32		
S-6	11/07/1991	39,000	11,000	2,000	800	2,300					<u></u>				100.58	22.35		78.23		
S-6	02/13/1992	64,000	21,000	6,200	1,600	5,100									100.58	22.28		78.30		
S-6	05/11/1992	57,000	22,000	7,600	2,200	<i>7,</i> 700									100.58	22.10		78.48		
S-6	12/03/1992	110,000	26,000	9,400	2,100	8,700									100.58	22.14		78.44		
S-6	05/13/1993	58,000	21,000	6,800	2,500	9,800									100.58	22.16	·	78.42		
S-6	07/22/1993	70,000	31,000	14,000	3,000	13,000									100.58	21.64		78.94		
S-6	10/20/1993	48,000	28,000	9,800	3,200	12,000									100.58	21.62		78.96		
S-6	01/25/1994	70,000	23,000	7,500	2,500	8,000									100.58	21.80		78.78		
S-6	04/25/1994	61,000	16,000	4,000	1,800	5,100									100.58	21.68		78.90		
S-6	07/21/1994	44,000	8,200	3,600	1,400	3,900						~~~			100.58	21.78		78.80		
S-6 (D)	07/21/1994	32,000	7,800	3,400	1,300	3,700									100.58					
S-6	10/24/1994	2,936	1,184	440.6	163.4	648.4									100.58	22.06		78.52		
S-6 (D)	10/24/1994	2,968	770.8	325.3	144.1	622						-			22.08*					
S-6	12/22/1994	32,000	7,000	2,900	790	2,400									22.08	21.91		0.17	·	
S-6 (D)	12/22/1994	32,000	8,000	3,800	1,100	3,400									22.08					
S-6	04/20/1995	56,000	15,000	3,800	1,900	4,900									22.08	21.38		0.70		
S-6 (D)	04/20/1995	49,000	13,000	3,500	1,800	4,700				·					22.08					
S-6	10/04/1995	49,000	8,400	4,700	1,800	4,800	,								22.08	21.80		0.28	per constant	
S-6 (D)	10/04/1995	41,000	8,400	4,100	1,400	4,400									22.08					
S-6	01/03/1996	52,000	9,100	7,100	1,800	5,800									22.08	21.70		0.38		
5-0	01/00/17/0	02,000	2,100	,,100	1,000	0,000												50		

Well I	D Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-6	04/11/1996	59,000	11,000	7,100	2,100	6,400	< 500						-		22.08	21.62	,	0.46		
S-6 (I		59,000	11,000	6,800	1,900	6,400	< 500								22.08					
S-6	07/11/1996	72,000	18,000	6,600	2,500	8,400	<1,000								22.08	21.65		0.43		
S-6	10/02/1996	57,000	11,000	6,500	1,500	5,100	< 500			,					22.08	21.80		0.28		
. S-6	01/22/1997	67,000	15,000	5,000	1,800	5,400	<1,000								22.08	19.95		2.13		
S-6 (I) 01/22/1997	63,000	15,000	4,800	1,800	5,200	<1,000								22.08					
S-6	07/21/1997	61,000	15,000	2,100	1,100	3,500	1,900								22.08	20.61		1.47		~
S-6	01/22/1998	46,000	14,000	3,200	1,300	3,400	< 500		-						22.08	19.82		2.26		
S-6	07/08/1998	74,000	26,000	7,500	2,200	6,200	<1,000								22.08	18.20		3.88		
S-6	10/26/1998														22.08	18.81		3.27		
S-6	01/28/1999	120,000	9,000	14,000	2,700	14,000	3,700								22.08	19.73		2.35		
S-6	04/23/1999	58,500	15,900	1,360	1,640	3,030	<2500			M-10-24					22.08	17.58		4.50		
S-6	07/29/1999	36,200	10,300	760	930	1,360	<1,000				-				22.08	21.35		0.73		
S-6	11/01/1999	36,000	11,700	767	865	1,670	<1,250	<40.0		and the same					22.08	19.23		2.85 2.55		
S-6	01/07/2000	36,000	7,600	4,600	840	3,600	<1,000								22.08 22.08	19.53 18.16		3.92		
S-6	04/11/2000	14,600	7,540	205	306	609	621	 										3.68		
S-6	07/19/2000	2,590	629	63.9	99.6	267	124	72.7 b							22.08 22.08	18.40 19.52		2.56		
S-6	10/12/2000	32,900	14,200	966	1,060	1,790	<500	<100							22.08	19.52		2.39		
S-6	01/09/2001	27,600	11,200	675	666	1,580	1,430	<10.0 b							22.08	19.09		2.88		
S-6	02/05/2001	16,000	7 900	2.42	170	066	809	<20.0							22.08	18.25		3.83		
S-6	04/06/2001	16,900	7,800	343	172	966 1,800		<250 <250							22.08	18.27		3.81		
S-6	07/25/2001	29,000	9,800	1,700	1,000	2,500		<500							22.08	19.30		2.78		
S-6	11/01/2001 01/17/2002	41,000 38,000 d	15,000 11,000 d	2,400 1,700 d	1,100 990 d	2,300 2,200 d		<500 d							22.08	18.51		3.57		
S-6 S-6	05/08/2002	72,000 d	21,000 a	4,400 d	2,200	5,300 a		<1,000 a	·						22.08	18.30		3.78		
S-6	07/18/2002	71,000	17,000	4,300	1,700	4,800		<1,000							30.56	18.19		12,37		
S-6	10/15/2002	55,000	16,000	4,600	1,500	4,600		<100		paragraph	-				30.56	18.77		11.79		
S-6	01/02/2003	75,000	21,000	5,000	2,400	6,400		<50	-						30.56	18.60		11.96		
S-6	04/15/2003	64,000	29,000	6,400	2,700	5,600		<1,000							30.56	18.27		12.29		
S-6	07/14/2003	47,000	19,000	4,300	1,500	4,300		<100		-					30.56	18.05		12.51		
S-6	10/20/2003	63,000	21,000	5,800	1,900	5,200		<130							30.56	18.55	Sheen	12.01		
S-6	01/22/2004	41,000	21,000	4,300	1,800	4,000		<130							30.56	18.18	Sheen	12.38		
S-6	04/19/2004	58,000	23,000	4,200	2,200	3,900		<130							30.56	17.32		13.24		
S-6	05/03/2004													***	30.56	17.30		13.26		
S-6	06/17/2004														30.56	17.70		12.86		
S-6	07/13/2004						***								30.56	17.85		12.71		
S-6	10/28/2004	45,000	21,000	3,600	1,700	3,300		<130	'						30.56	18.45		12.11		
S-6	01/17/2005	61,000	21,000	3,500	1,600	3,200		<130							30.56	17.52	·	13.04		
S-6	04/14/2005	36,000	12,000	6,200	850	4,800		< 50							30.56	22.49		8.07	***	
S-6	07/28/2005	54,000	16,000	9,100	1,800	5,900		<130							30.56	19.38		11.18		
S-6	10/05/2005	59,000	14,000	7,500	1,400	5,000		< 50							30.56	18.32		12.24		
S-6	02/09/2006	41,100	7,060	3,900	673	2,380		< 0.500		. 					30.56	17.11		13.45		

Well ID	Date .	TPHg (µg/L)	B (μg/L)	T (μg/L)	Ε (μg/L)	X (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-6	05/15/2006	188,000	24,800	20,700	2,540	12,400		<25.0							30.56	19.80		10.76		
S-6	08/23/2006	133,000	24,900	16,100	2,280	10,500		< 0.500							30.56	20.45		10.11		
S-6	11/15/2006	66,000	19,000	8,400	1,900	7,400		<400							30.56	20.41		10.15		
S-6	01/30/2007	88,000	18,000	9,600	1,900	7,200		<100							30.56	20.47		10.09		
S-6	05/29/2007	56,000 f	17,000	6,700	1,700	5,400		<20							30.56	20.40		10.16		
S-6	08/15/2007	57,000 f,g	15,000	6,800	1,600	6,100		<100							30.56	20.49		10.07	~~~	
S-6	11/28/2007	42,000 f	13,000	5,000	1,300	5,000		<100							30.56	20.65		9.91		
S-6	02/08/2008	35,000 f	12,000	5,000	1,200	4,050		<100				-	<50	<100	30.56	20.31		10.25		
S-6	05/08/2008	45,000 f	15,000	6,100	1,400	5,000		<100					<50	<100	30.56	20.63		9.93		
S-6	08/14/2008	37,000	11,000	5,200	1,200	4,600		<100					<50	<100	30.56	20.65		9.91		
S-6	11/11/2008	37,000 i	15,000 i	6,200 i	1,200 i	3,390 i		<10 i					<5.0 i	<10 i	30.56	20.79		9.77		***
S-6	11/11/2008	14,000 j	5,200 j	680 j	400 j	1,060 j		<50 j					<25 j	<50 j	30.56	20.79		9.77		
S-6	01/05/2009	53,000	9,400	3,600	890	3,100		<100			,		<50	<100	30.56	21.66		8.90		-
S-6	04/09/2009	Unable to	-	4.400	250	750								 <100	30.56	20.20		10.26		
S-6	04/21/2009	13,000	3,700	1,100	270	750		<100			We also ear		<50	<100	30.56	20.20		10.36	110	70
S-6	07/23/2009	15,000	4,400	1,100	360	1,000									30.56	20.66		9.90	1.13	-73
S-6	10/01/2009	21,000	5,100	1,300	420	1,200									30.56	20.86		9.70 10.20	0.58	16
S-6	01/28/2010	8,700	2,600	250	200	400									30.56	20.36			1.08	
S-6	05/20/2010	4,400	1,600	82	85 540	150									30.56	20.68		9.88 9.78		64
S-6	08/31/2010	19,000	4,700	1,300	560	1,600									30.56	20.78 19.92		9.76 10.64	1.55 2.35	-88 123
S-6	12/29/2010	15,000	3,900	1,500	520	1,800						******			30.56			10.64	0.61	-143
S-6	02/01/2011	16,000	4,000	1,700	600	1,800									30.56	19.05		12.83	0.81	-143 -112
S-6	04/25/2011	23,000	7,800	3,500	960	3,000									30.56 30.56	17.73 17.62		12.83	0.70	-112 -26
S-6	07/28/2011	17,000	5,500	1,500	600	1,600 5,900									30.56	18.12		12.44	4.64	-20 -9
S-6	10/28/2011	42,000	11,000	4,500	1,600										30.56	17.50		13.06	2.32	116
S-6 S-6	05/07/2012 08/31/2012	38,000	14,000 6,700	4,800 2,500	1,300 1,900	4,400 6,200									30.56	18.42		12.14	0.62	146
S-6	12/11/2012	96,000 31,000	8,300	3,700	1,000	3,700									30.56	20.00		10.56	0.92/0.65	
S-6	01/24/2013	29,000	9,100	2,500	950	2,600									30.56	20.43		10.13		
S-6	05/02/2013	10,000	1,800	1,100	430	1,100									30.56	22.98		7.58		
							•													
S-8	12/22/1994	600	120	32	5.2	34									27.21	24.87		2.34		
S-8	04/20/1995	460	180	23	5.2	21									27.21	23.90		3.31		
S-8	10/04/1995	830	210	38	11	42									27.21	24.48		2.73		
S-8	01/03/1996	350	61	12	2.5	12									27.21	24.62		2.59		
S-8 (D)	01/03/1996	340	54	12	2.4	12									27.21					
S-8	04/11/1996	570	140	37 .	12	47	<6.2								27.21	24.32		2.89		
S-8	07/11/1996	980	98	32	9.1	160	<12								27.21	24.10		3.11		
S-8	10/02/1996	280	62	13	3.3	25	15								27.21	25.38		1.83		
S-8 (D)	10/02/1996	490	110	24	7.0	45	- 22	<2.0							27.21					
S-8	01/22/1997	400	90	13	4.9	25	12								27.21	23.91		3.30	~~~	
S-8	07/21/1997	2,900	380	110	26	260	85					-			27.21	23.62		3.59		

Section Control Cont	Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (μg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (μg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
Self 01/22/1998 3,500 780 120 33 300 160	S-8 (D)	07/21/1997	3,200	420	120	32	300	130								27.21					
Sell	S-8	01/22/1998	3,800	790	140	42	330	160						-		27.21	23.52		3.69		
S8 (10) 07/88/1998 4,000 1,800 425 425 31 4125 .	S-8 (D)	01/22/1998	3,500	780	120	33	300	160								27.21					
See 10/26/1998 Color C	S-8	07/08/1998	3,600	1,800	<25	<25	<25	<125								27.21	21.52		5.69		
S-8 01/28/1999 2,000 6.80 6.20 24 51 43	S-8 (D)	07/08/1998	4,000	1,800	<25	<25	31	<125								27.21					
S-8 04/23/1999 1,050 448 <5,00 <5,00		10/26/1998														27.21	22.01		5.20		
S.8 07/29/1999 95.5 344 <2.50 6.90 16.2 <2.50 — — — — 27.21 21.95 — 5.26 — — 5.8 11/01/1999 1,800 550 6.45 15.0 40.4 <50.0 — — — 27.21 22.55 . 4.66 — — 5.8 01/10/2000 300 600 11 2.9 4.8 <1.3 — — — 27.21 22.85 . 4.64 — — 5.8 01/19/2000 30 40 8.64 3.25 22.5 — — — 7.21 21.95 — 5.26 — — 7.21 21.96 — 5.25 — — 7.21 21.98 — 5.26 — — 7.21 21.98 — 5.26 — — 7.21 21.98 — 5.26 — — 7.21 21.98 — 4.24 1	S-8	01/28/1999	2,000	630	6.2	24	51	43			-					27.21	23.03		4.18		
S-8 11/07/1999 1,800 550 6.45 15.0 40.4 <50.0	S-8	04/23/1999	1,050	408	< 5.00	< 5.00	6.65	<50.0								27.21	22.15		5.06		
S-8 01/07/2000 13.00 600 11 29 48 <13 — — — 27.21 22.87 4.34 — — 58 04/11/2000 342 101 4.42 4.24 14.7 21.4 — — — 27.21 21.86 5.35 — — 5.8 0.0/19/2000 379 228 6.37 6.45 25 <12.5 — — 27.21 21.93 35.28 — — 27.21 21.93 35.28 — — 27.21 21.93 35.28 — — 27.21 22.19 4.02 — — 27.21 22.19 4.02 — — 58.8 0/06/2001 671 182 12.5 1.4 47.1 42.5 — — 27.21 22.19 4.02 — — 58.8 0/10/2001 1.00 250 28 39 180 — <5.0 — <	S-8	07/29/1999	955	344	<2.50	6.90	16.2	<25.0								27.21	21.95		5.26		
S-8 0/1/1/2000 342 101 4.42 4.24 14.7 21.4 — — — — 27.21 21.86 — 5.35 — — 5.8 07/19/2000 579 22.8 6.37 6.45 25 <12.5 <12.0 — — — 27.21 21.93 — 5.28 — — — — 27.21 21.93 — 4.29 — — — — 27.21 21.93 — 4.02 — — — — 27.21 22.92 — 4.02 — — — — 7.721 22.93 — 4.02 — — — — 7.721 22.96 — 4.71 — — — — 7.721 22.96 — 4.71 — — — — 7.721 22.96 — 4.71 — — — 9.721 22.56 — 4.71 —	S-8	11/01/1999	1,800	550	6.45	15.0	40.4	<50.0								27.21	22.55		4.66		
S-8 07/19/2000 979 228 6.37 6.45 25 <12.5	S-8	01/07/2000	1,300	600	11	29	48	<13								27.21	22.87		4.34		
S-8 10/12/2000 947 340 8.64 3.26 38.3 <12.5 <2.00	S-8	04/11/2000	342	101	4.42	4.24	14.7	21.4								27.21	21.86		5.35		
S-8 01/09/2001 1,090 394 <10.0	S-8	07/19/2000	579	228	6.37	6.45	25	<12.5								27.21	21.93	<u></u>	5.28		
S-8 04/06/2001 671 182 12.5 16.4 47.1 42.5	S-8	10/12/2000	947	340	8.64	3.26	38.3	<12.5	< 2.00					-	-	27.21	22.92		4.29		
S-8 07/25/2001 500 70 6.7 11 23 < 5.0	S-8	01/09/2001	1,090	394	<10.0	<10.0	33.3	57.6						Seed not seen	****	27.21	23.19		4.02		
S-8 11/01/2001 1,900 250 28 39 180 - - - - 27.21 22.44 - <td< td=""><td>S-8</td><td>04/06/2001</td><td>671</td><td>182</td><td>12.5</td><td>16.4</td><td>47.1</td><td>42.5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>27.21</td><td>22.46</td><td></td><td>4.75</td><td></td><td></td></td<>	S-8	04/06/2001	671	182	12.5	16.4	47.1	42.5								27.21	22.46		4.75		
S-8 01/17/2002 830 d 140 d 11 d 12 d 89 d - <5.0 d	S-8	07/25/2001	500	70	6.7	11	23		< 5.0		***		~~~	****		27.21	22.50		4.71		
S-8 05/08/2002 210 d 34 d 1.7 d 4.1 d 15 d - - - 27.21 21.35 - 5.86 - - - - 27.21 21.35 - 5.86 - - - - - 27.21 21.35 - 5.86 - - - - - - 27.21 21.35 - 5.86 -	S-8	11/01/2001	1,900	250	28	39	180		< 5.0							27.21	22.44		4.77		
S-8 07/18/2002 650 68 2.8 9.7 42 <5.0	S-8	01/17/2002	830 d	140 d	11 d	12 d	89 d		<5.0 d	***		~				27.21	21.82		5.39		
S-8 10/15/2002 1,000 160 4.2 7.7 74 - <0.50	S-8	05/08/2002	210 d	34 d	1.7 d	4.1 d	15 d		<5.0 d							27.21	21.35		5.86		
S-8 01/02/2003 440 55 1.8 2.9 31 <	S-8	07/18/2002	650	68	2.8	9.7	42		< 5.0							35.85	21.53		14.32		
S-8 04/15/2003 14.12 <td>S-8</td> <td>10/15/2002</td> <td>1,000</td> <td>160</td> <td>4.2</td> <td>7.7</td> <td>74</td> <td></td> <td>< 0.50</td> <td></td> <td>-</td> <td></td> <td></td> <td>And the past</td> <td></td> <td>35.85</td> <td>21.97</td> <td></td> <td>13.88</td> <td></td> <td></td>	S-8	10/15/2002	1,000	160	4.2	7.7	74		< 0.50		-			And the past		35.85	21.97		13.88		
S-8 07/14/2003 60 6.8 <0.50	S-8	01/02/2003	440	55	1.8	2.9	31		< 0.50							35.85	21.95		13.90		
S-8 10/20/2003	S-8	04/15/2003														35.85	21.73		14.12		
5-8 01/22/2004 210 19 0.52 3.6 17 <0.50	S-8	07/14/2003	60	6.8	< 0.50	0.98	4.9		< 0.50							35.85	21.40		14.45		
S-8 04/19/2004	S-8	10/20/2003										~~~				35.85	21.94		13.91		
S-8 07/13/2004 420 77 0.82 14 31 <0.50	S-8	01/22/2004	210	19	0.52	3.6	17		< 0.50							35.85	21.40		14.45		
S-8 10/28/2004 14.08 14.08	S-8	04/19/2004	·					-								35.85	20.83		15.02		
S-8 01/17/2005 490 85 0.89 13 28 <0.50	S-8	07/13/2004	420	77	0.82	14	31		< 0.50							35.85	21.05		14.80		
S-8 04/14/2005	S-8	10/28/2004														35.85	21.77		14.08		
S-8 07/28/2005 64 12 <0.50 1.5 1.6 <0.50 35.85 21.62 14.23 S-8 10/05/2005	S-8	01/17/2005	490	85	0.89	13	28		< 0.50				NWM	-		35.85	20.92		14.93		
S-8 10/05/2005	S-8	04/14/2005														35.85	21.57		14.28		
S-8 02/09/2006 <50.0 2.79 <0.500 <0.500 <0.500 <0.500 <0.500 < 35.85 20.18 15.67 S-8 05/15/2006	S-8	07/28/2005	64	12	< 0.50	1.5	1.6		< 0.50							35.85	21.62		14.23		
S-8 02/09/2006 <50.0 2.79 <0.500 <0.500 <0.500 <0.500 <0.500 < 35.85 20.18 15.67 S-8 05/15/2006	S-8	10/05/2005		*****			·									35.85	21.11		14.74		
S-8 05/15/2006	S-8	02/09/2006	<50.0	2.79	< 0.500	< 0.500	< 0.500		< 0.500								20.18		15.67		
S-8 11/15/2006 35.85 22.05 13.80	S-8															35.85	20.53		15.32		
	S-8	08/23/2006	<50.0	< 0.500	< 0.500	< 0.500	< 0.500		< 0.500							35.85	21.49		14.36		
	S-8	11/15/2006						·								35,85	22.05		13.80		
S-8 01/30/2007 <50 <0.50 <0.50 <0.50 <1.0 <0.50 35.85 22.41 13.44		01/30/2007		< 0.50	< 0.50	< 0.50	<1.0		< 0.50							35.85	22.41		13.44		
S-8 05/29/2007 35.85 22.65 13.20																	22.65		13.20		
S-8 08/15/2007 65 f,g 7.4 <1.0 <1.0 <-1.0 <1.0 35.85 22.88 12.97		, ,				<1.0			<1.0												
S-8 11/28/2007 35.85 23.20 12.65			_																		

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	E (μg/L)	X (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)	EDC (μg/L)	_EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-8	02/08/2008	350 f	22	<1.0	4.8	2.6		1.2					< 0.50	<1.0	35.85	22.72	·	13.13		
S-8	05/08/2008														35.85	22.91		12.94		
S-8	08/14/2008	420	28	<1.0	6.3	1.4		<1.0					< 0.50	<1.0	35.85	23.12		12.73		
S-8	11/11/2008	330 i	37 i	<1.0 i	5.1 i	<1.0 i		<1.0 i					<0.50 i	<1.0 i	35.85	23.37		12.48	1.6	28
S-8	11/11/2008	480 j	29 j	<1.0 j	5.4 j	<1.0 j									35.85	23.37		12.48	2.2	103
S-8	12/18/2008	340	38	<1.0	5.4	<1.0									35.83	23.31		12.52		
S-8	01/05/2009	170	15	<1.0	1.2	<1.0									35.83	23.28		12.55		
S-8	01/15/2009	260	45	<1.0	3.2	<1.0									35.83	23.05		12.78		
S-8	02/12/2009	88	7.2	<1.0	<1.0	<1.0									35.83	23.34		12.49		
S-8	03/12/2009	12,000	1,700	2,100	200	2,400					***				35.83	22.90		12.93		
S-8	04/09/2009	170	< 0.50	<1.0	<1.0	<1.0									35.83	23.10		12.73		594
S-8	07/23/2009	140	0.55	<1.0	<1.0	<1.0									35.83	23.02		12.81	2.38	-54
S-8	10/01/2009	140	0.68	<1 .0	<1.0	<1.0									35.83	23.31		12.52	4.34	359
S-8	01/28/2010	<50	< 0.50	<1.0	<1.0	<1.0									35.83	22.80		13.03		
S-8	05/20/2010	<50	< 0.50	<1.0	<1.0	<1.0									35.83	23.55		12.28	0.64	42
S-8	08/31/2010	<50	< 0.50	<1.0	<1.0	<1.0									35.83	23.48		12.35	0.54	-72
S-8	12/29/2010	79	0.83	<1.0	<1.0	<1.0									35.83	23.18		12.65	0.74	133
S-8	02/01/2011	<50	<0.50	< 0.50	< 0.50	<1.0									35.83	22.57		13.26	1.68	104
S-8	04/25/2011	< 50	1.1	< 0.50	< 0.50	<1.0									35.83	21.26		14.57	1.78	12
S-8	07/28/2011	50	2.4	< 0.50	< 0.50	<1.0									35.83	20.94		14.89	0.89	186
S-8	10/28/2011	<50	0.61	< 0.50	< 0.50	<1.0									35.83	21.09		14.74	2.78	349
S-8	05/07/2012	<50	4.3	1.4	0.59	1.0									35.83	21.23		14.60	2.42	209
S-8	05/02/2013	53	<0.50	<0.50	<0.50	<1.0								***	35.83	24.65		11.18		
S-9	12/22/1994	2,600	400	150	42	310									26.06	24.37		1.69		
S-9	04/20/1995	1,900	400	130	51	200									26.06	23.49		2.57		
S-9	10/04/1995	3,200	590	260	68	280									26.06	24.01		2.05		
S-9	01/03/1996	Well inacc	essible			and personal									26.06					
S-9	04/11/1996	2,100	440	1,500	42	210	<25								26.06	23.61		2.45		
S-9	07/11/1996	5,200	940	450	120	520	< 50								26.06	23.78		2.28		
S-9 (D)	07/11/1996	4,800	890	430	110	500	<50								26.06					
S-9	10/02/1996	3,000	680	220	56	270	<62								26.06	24.31		1.75		
S-9	01/22/1997	1,500	230	71	36	130	<12								26.06	23.08		2.98		
S-9	07/21/1997	3,400	590	57	19	210	96								26.06	22.83		3.23		
S-9	01/22/1998	2,600	300	46	<10	270	62								26.06	21.96		4.10		
S-9	07/08/1998	820	150	6.2	7.5	57	<10							'	26.06	20.85		5.21		
S-9	10/26/1998														26.06	21.39		4.67		
S-9	01/28/1999	< 50	1.0	< 0.50	< 0.50	< 0.50	<2.5								26.06	22.32		3.74		
S-9	04/23/1999														26.06	21.41		4.65		
S-9	07/29/1999	117	7.77	0.817	0.683	5.05	< 5.00								26.06	21.25		4.81		~~~
S-9	11/01/1999														26.06	21.92		4.14		
S-9	01/07/2000	< 50	1.2	< 0.50	< 0.50	< 0.50	<2.5								26.06	22.11		3.95		

Well ID	Date	$TPH_{\mathcal{G}}$	В	Т	E	X	MTBE 8020	MTBE 8260	TBA	DIPE	ЕТВЕ	TAME	EDC	EDB	тос	Depth to Water	SPH Thickness	GW Elevation	DO	ORP
well ID	Dute	(μg/L)	μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	DΠL (μg/L)	(μg/L)	(μg/L)	LDC (μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-9	04/11/2000														26.06	21.14		4.92		
S-9	07/19/2000	Well inacc	essible												26.06					
S-9	10/12/2000														26.06	22.24		3.82		
S-9	01/09/2001	<50.0	1.45	< 0.500	< 0.500	< 0.500	<2.50	-			·				26.06	22.52		3.54		
S-9	04/06/2001														26.06	23.61		2.45		
S-9		Well inacc													26.06	-				
S-9	08/13/2001	Well inacc	essible	`											26.06					
S-9	11/01/2001								:		***				26.06	21.78		4.28		
S-9	01/17/2002	<50 d	<0.50 d	<0.50 d	<0.50 d	<0.50 d		<5.0 d					-		26.06	21.15		4.91		
S-9	05/08/2002						****								26.06	20.56		5.50		
S-9	07/18/2002	<50	< 0.50	< 0.50	< 0.50	< 0.50		< 5.0							34.70	20.88		13.82		
S-9	10/15/2002		*****			****									34.70	21.41		13.29		
S-9	01/02/2003	<50	< 0.50	< 0.50	< 0.50	< 0.50		<5.0							34.70	21.35		13.35		
S-9	04/15/2003											minor			34.70	21.14		13.56		
S-9	07/14/2003	<50	< 0.50	< 0.50	< 0.50	<1.0		<0.50							34.70	20.80		13.90		
S-9	10/20/2003														34.70	21.33		13.37		
S-9	01/22/2004	< 50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50						'	34.70	20.77		13.93		
S-9	04/19/2004														34.70	20.06		14.64		
S-9	07/13/2004	< 50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50		·					34.70	20.44		14.26		
S-9	10/28/2004														34.70	21.02		13.68		
S-9	01/17/2005	< 50	< 0.50	< 0.50	< 0.50	<1.0		< 0.50							34.70	20.18		14.52	·	
S-9	04/14/2005	'													34.70	21.85		12.85		
S-9	07/28/2005	360	190	1.8	1.1	3.9		< 0.50	< 5.0	< 2.0	<2.0	<2.0			34.70	21.22		13.48		
S-9	10/05/2005														34.70	20.63		14.07		
S-9	02/09/2006	<50.0	0.94	< 0.500	< 0.500	< 0.500		< 0.500					****		34.70	19.23		15.47		
S-9	05/15/2006														34.70	20.28		14.42		
S-9	08/23/2006	7,000	1,740	55.6	193	278		< 0.500	<10.0	< 0.500	< 0.500	< 0.500			34.70	21.31		13.39		
S-9	11/15/2006														34.70	21.79		12.91		
S-9	01/30/2007	12,000	2,200	250	480	980		< 0.50							34.70	22.08	·	12.62		
S-9	05/29/2007														34.70	22.22		12.48		
S-9	08/15/2007	9,800 f,g	2,400	100	410	602		<10	<100	<20	<20	<20			34.70	22.43		12.27		
S-9	11/28/2007														34.70	22.75		11.95		
S-9	02/08/2008	69 f	2.2	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	34.70	22.31		12.39		
S-9	05/08/2008				***										34.70	22.49		12.21		
S-9	08/14/2008	< 50	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	34.70	22.70		12.00		
S-9	11/11/2008	<50 i	2.4 i	<1.0 i	<1.0 i	<1.0 i		<1.0 i		,			<0.50 i	<1.0 i	34.70	22.90		11.80	1.1	92
S-9	11/11/2008	550 j	74 j	12 j	22 j	55.3 j									34.70	22.90		11.80	3.6	98
S-9	12/18/2008	1,500	280	43	71	182				*****					34.34	22.81		11.53		
S-9	01/05/2009	1,000	230	24	45	64									34.34	22.75		11.59		
S-9	01/05/2009	2,100	560	75	100	245						Parameter .			34.34	22.37		11.97	,,,,,,,	
S-9	02/12/2009	500	120	19	26	50									34.34	22.61		11.73		
S-9	03/12/2009	810	200	30	50	110									34.34	22.22		12.12		
<i>5-7</i>	03/14/2009	010	200	50	50	110									J4.J4	44.44		14,14	_	-

Well ID	Date	TPHg (µg/L)	B (µg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (111V)
S-9	04/09/2009	2,300	450	60	110	260									34.34	22.12		12.22	0.65	79
S-9	05/18/2009	1,500	200	35	. 61	180									34.34	22.09		12.25	2.71	173
S-9	07/23/2009	1,700	430	49	110	190									34.34	22.48	·	11.86	0.21	346
S-9	10/01/2009	1,200	180	12	58	93									34.34	22.84		11.50	1.37	146
S-9	11/09/2009	1,400	260	21	67	81									34.34	22.63		11.71	0.42	
S-9	12/01/2009	1,100	110	11	26	59	2012020								34.34	22.44		11.90	1.09	133
S-9	01/28/2010	. 860	130	9.3	38	79									34.34	22.35		11.99	1.95	
S-9	05/20/2010	1,900	340	27	100	210									34.34	22.40	-	11.94	0.17	138
S-9	06/22/2010	1,400	240	30	65	130									34.34	22.64	·	11.70	2.16	577
S-9	08/31/2010	760	130	13	54	110		<1.0	<10	<2.0	<2.0	<2.0			34.34	22.92		11.42	1.53	415
S-9	12/29/2010	290	55	3.3	18	41									34.34	22.62		11.72	1.64	163
S-9	02/01/2011	640	99	7.8	38	72									34.34	21.88		12.46	1.34	0
S-9	04/25/2011	590	120	9.1	29	77									34.34	20.34		14.00	0.62	98
S-9	07/28/2011	1,700	280	47	88	230		<1.0	<10	<1.0	<1.0	<1.0			34.34	20.10		14.24	2.17	73
S-9	10/28/2011	1,900	370	32	110	260						******			34.34	20.54		13.80	2.18	122
S-9	05/07/2012	970	200	14	46	100		<2.5	<50	<2.5	<2.5	<2.5			34.34	20.49		13.85	0.91	78
S-9	12/11/2012	610	160	22	32	95	,								34.34	22.28		12.06	1.28/1.53	93/76
S-9	05/02/2013	1 ,400	230	53	65	160		<2.5	< 50	<2.5	<2.5	<2.5			34.34	24.36		9.98		
S-10	12/22/1994	420	27	8.0	18	45							***		28.04	25.84		2.20		
S-10	04/20/1995	820	49`	3.7	97	52									28.04	24.92		3.12		
S-10	10/04/1995	240	6.5	1.1	16	12									28.04	25.47		2.57		
S-10	01/03/1996	1,100	27	4.9	110	70									28.04	25.60		2.44		
S-10	04/11/1996	530	19	1.6	82	52	<5.0								28.04	25.27		2.77		
S-10	07/11/1996	570	16	3.2	53	53	<2.5								28.04	25.46		2.58		
S-10	10/02/1996	270	8.2	0.77	24	23	3.3								28.04	25.81		2.23		
S-10	01/22/1997	160	4.8	0.73	16	11	<2.5								28.04	24.74		3.30		
S-10	07/21/1997	530	5. <i>7</i>	0.70	29	69	<2.5								28.04	24.50		3.54		
S-10	01/22/1998	1,500	15	<5.0	88	130	<25	,							28.04	24.44		3.60		
S-10	07/08/1998	530	4.8	1.1	47	51	<2.5								28.04	22.36		5.68		
S-10	10/26/1998														28.04	22.81		5.23		
S-10	01/28/1999	630	4.6	0.98	< 0.50	59	<2.5								28.04	23.82		4.22		
S-10	04/23/1999														28.04	22.96		5.08		
S-10	07/29/1999	728	3.4	<1.00	41.8	38.0	<10.0								28.04	22.63		5.41		
S-10	11/01/1999														28.04	23.02		5.02		
S-10	01/07/2000	870	8.5	1.3	110	110	<2.5								28.04	23.33		4.71		
S-10	04/11/2000														28.04	22.64		5.40		
S-10	07/19/2000	612	3.75	< 0.500	41.6	43.6	<2.50					*****			28.04	23.04		5.00		
S-10	10/12/2000														28.04	23.92		4.12		
S-10	01/09/2001	647	7.62	1.01	66.2	42.4	<2.50			***					28.04	24.13		3.91		
S-10	04/06/2001														28.04	25.37		2.67		
S-10	07/25/2001	340	1.5	< 0.50	42	19		<5.0							28.04	25.35		2.69		

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	X (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (µg/L)	EDC (μg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (1ng/L)	ORP
S-10	11/01/2001			and the							20 20 10				28.04	23.22		4.82		
S-10	01/17/2002	1,100 d	3.5 d	<0.50 d	55 d	46 d		<5.0 d							28.04	22.72		5.32		
S-10	05/08/2002														28.04	22.35		5.69		
S-10	07/18/2002	750	1.8	< 0.50	42	26		< 5.0							36.35	22.05		14.30		
S-10	10/15/2002														36.35	22.51		13.84		
S-10	01/02/2003	440	1.8	< 0.50	14	24		<5.0							36.35	22.50		13.85		
S-10	04/15/2003														36.35	22.32		14.03		
S-10	07/14/2003	210	0.86	< 0.50	13	12		< 0.50							36.35	21.99		14.36		
S-10	10/20/2003									-					36.35	22.53		13.82		
S-10	01/22/2004	280	0.88	< 0.50	10	11		< 0.50							36.35	22.02		14.33		
S-10	04/19/2004												******		36.35	21.43		14.92		
S-10	07/13/2004	770	1.5	< 0.50	70	42		< 0.50							36.35	21.68		14.67		
S-10	10/28/2004														36.35	22.37		13.98		
S-10	01/17/2005	1,100	1.5	< 0.50	73	51		< 0.50	*****						36.35	21.45		14.90		
S-10	04/14/2005														36.35	22.18		14.17		
S-10	07/28/2005	260	< 0.50	< 0.50	19	9.7		< 0.50	<5.0	<2.0	<2.0	<2.0	·		36.35	22.25		14.10		
S-10	10/05/2005														36.35	21.70		14.65		
S-10	02/09/2006	630	< 0.500	< 0.500	13.8	13.8		< 0.500							36.35	20.37		15.98		
S-10	05/15/2006													, .	36.35	21.31		15.04		
S-10	08/23/2006	<50.0	< 0.500	<0.500	14.5	3.4		< 0.500	<10.0	< 0.500	< 0.500	< 0.500			36.35	22.12		14.23		
S-10	11/15/2006														36.35	22.68		13.67		
S-10	01/30/2007	120	< 0.50	< 0.50	7.0 .	3.3		<0.50							36.35	23.09		13.26		
S-10	05/29/2007														36.35	23.20		13.15		
S-10	08/15/2007	64 f,g	0.15 h	<1.0	1.4	0.72 h		<1.0	<10	<2.0	<2.0	<2.0			36.35	23.48		12.87		
S-10	11/28/2007														36.35	23.82		12.53		
S-10	02/08/2008	61 f	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	36.35	23.31	***	13.04		
S-10	05/08/2008														36.35	23.55		12.80		
S-10	08/14/2008	58	< 0.50	<1.0	2.7	<1.0		<1.0					<0.50	<1.0	36.35	23.75		12.60		
S-10	11/11/2008												***		36.35	23.08		13.27		
S-10	12/18/2008	<50	< 0.50	<1.0	<1.0	<1.0									36.35	24.00		12.35		
S-10	01/05/2009	<50	<0.50	<1.0	<1.0	<1.0				~~~					36.35	23.87		12.48		
S-10	01/15/2009	<50	<0.50	<1.0	1.1	<1.0								~~~	36.35	23.66		12.69		
S-10	02/12/2009	56	< 0.50	<1.0	3.4	<1.0									36.35	23.96		12.39		
S-10	03/12/2009	53	< 0.50	<1.0	4.9	<1.0									36.35	23.44		12.91		
S-10	04/09/2009														36.35	23.26	, · ·	13.09		
S-10	07/23/2009	66	<0.50	<1.0	5.7	<1.0					-				36.35	23.56		12.79	0.06	112
S-10	10/01/2009	76	<0.50	<1.0	4.6	<1.0									36.35	23.80		12.55	1.26	206
S-10	01/28/2010	100	< 0.50	<1.0	3.6	<1.0									36.35	23.30		13.05	0.40	
S-10	05/20/2010	52	<0.50	<1.0	1.9	<1.0		-4.0							36.35	24.04		12.31	0.68	59
S-10	08/31/2010	<50	0.69	<1.0	1.4	<1.0	-	<1.0	<10	<2.0	<2.0	<2.0			36.35	24.24		12.11	0.51	-3
S-10	12/29/2010	95	<0.50	<1.0	3.4	1.4							***		36.35	23.89		12.46	0.43	87
S-10	02/01/2011	69	<0.50	< 0.50	2.2	<1.0					~~~				36.35	23.25		13.10	2.08	117

			_	_	_		MTBE	MTBE	mm 4	DIRE	EMBE	T434E	ED.C	EDB	TOG	Depth to	SPH	GW	DO	OPP
Well ID	Date	TPHg (μg/L)	B (μg/L)	T (μg/L)	E (μg/L)	Χ (μg/L)	8020 (μg/L)	8260 (μg/L)	TBA (μg/L)	DIPE (μg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (μg/L)	EDB (µg/L)	TOC (ft MSL)	Water (ft TOC)	Thickness (ft)	Elevation (ft MSL)	DO (1ng/L)	ORP (mV)
C 10	04 /05 /0011	_	- ·	<0.50	2.9	<1.0	_								36.35	21.87		14.48	1.32	21
S-10 S-10	04/25/2011 07/28/2011	55 <50	0.51 <0.50	<1.0	0.92	<1.0		<1.0	<10	<1.0	<1.0	<1.0			36.35	21.39		14.96	0.32	227
S-10	10/28/2011	52	<0.50	<0.50	2.7	<1.0									36.35	21.68		14.67	2.68	327
S-10	05/07/2012	50	0.84	< 0.50	1.5	<1.0		< 0.50	<10	< 0.50	< 0.50	< 0.50			36.35	22.00		14.35	2.51	220
S-10	05/02/2013	100	< 0.50	<0.50	0.77	<1.0		<0.50	<10	<0.50	<0.50	<0.50			36.35	25.53		10.82		
5 10	00,042010		0.50	0.50	· · · ·						****									
S-12	12/17/2007		<u></u>								-				36.44	24.58		11.86		***
S-12	02/08/2008	55 f	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	36.44	24.32		12.12		
S-12	05/08/2008	<50 f	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	36.44	24.51		11.93		
S-12	08/14/2008	< 50	1.0	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	36.44	24,63		11.81		
S-12	11/11/2008	<50 i	0.95 i	<1.0 i	<1.0 i	<1.0 i		<1.0 i					<0.50 i	<1.0 i	36.44	24.85		11.59	0.2	37
S-12	11/11/2008	65 j	8.1 j	2.2 j	4.8 j	1.5 j			, ,				· · ·		36.44	24.85		11.59	0.2	45
S-12	12/18/2008	< 50	8.3	<1.0	1.8	<1.0									36.44	24.81		11.63		
S-12	01/05/2009	95	16	<1.0	3.2	<1.0									36.44	24.75		11.69		
S-12	01/15/2009	140	36	<1.0	12	<1.0		*****	·						36.44	24.54		11.90		
S-12	02/12/2009	<50	5.0	<1.0	1.6	<1.0									36.44	24.81		11.63		
S-12	03/12/2009	<50	4.8	<1.0	1.5	<1.0									36.44	24.41		12.03		
S-12	04/09/2009	59	6.0	<1.0	1.6	<1.0									36.44	24.23		12.21	0.50	-3
S-12	07/23/2009	130	29	<1.0	13	<1.0									36.44	24.50		11.94	0.07	142
S-12	10/01/2009	130	25	<1.0	15	<1.0									36.44	24.76		11.68	0.74	135
S-12	01/28/2010	110	14	<1.0	19	<1.0									36.44	24.28		12.16		
S-12	05/20/2010	<i>7</i> 5	8.5	<1.0	7.0	<1.0						,			36.44	24.71		11.73	0.14	740
S-12	08/31/2010	<50	0.56	<1.0	<1.0	<1.0		,							36.44	25.08		11.36	1.18	180
S-12	12/29/2010	<50	0.98	<1.0	<1.0	<1.0							,		36.44	24.60		11.84	1,27	121
S-12	02/01/2011	<50	1.8	< 0.50	2.8	<1.0					-				36.44	23.94		12.50	2.06	-2 106
S-12	04/25/2011	<50	0.82	<0.50	1.7	<1.0									36.44	22.53		13.91	0.28	196
S-12	07/28/2011	<50	0.96	<0.50	2.8	<1.0									36.44	22.05		14.39	3.01	163
S-12	10/28/2011	99	15	<0.50	14	<1.0									36.44	22.50		13.94	3.67	91
S-12	05/07/2012	180	25	<0.50	19	1.0									36.44 36.4 4	22.50 26.48		13.94 9.96	0.88	66
S-12	05/02/2013	190	1.2	0.64	0.71	3.8									30.44	20.40		9.90		
S-13	12/17/2007		Person												35.16	23.33		11.83		
S-13	02/08/2008	14,000 f	1,900	1,300	280	3,000	·	<10					<5.0	<10	35.16	23.01		12.15		
S-13	05/08/2008	18,000 f	2,800	3,400	550	3,500		<10					<5.0	<10	35.16	23.31		11.85		
S-13	08/14/2008	16,000	2,400	3,100	580	3,100		<20					<10	<20	35.16	23.31		11.85		
S-13	11/11/2008	16,000 i	2,400 i	2,800 i	270 i	2,500 i		<50 i					<25 i	<50 i	35.16	23.60		11.56	0.8	-48
S-13	11/11/2008	4,400 j	560 j	630 j	88 j	530 j									35.16	23.60		11.56	1.2	-60
S-13	12/18/2008	3,900	530	560	76	510									35.05	23.61		11.44		
S-13	01/05/2009	8,200	700	670	67	1,000	******								35.05	23.54		11.51		
S-13	01/15/2009	5,400	610	610	48	950						-			35.05	23.10		11.95		
S-13	02/12/2009	6,300	800	1,000	110	870									35.05	22.36		12.69		
S-13	03/12/2009	14,000	1,700	2,300	190	2,400		-							35.05	23.20		11.85		
	,,0>	,	-,	-,		_,														

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDC (µg/L)	EDB (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-13	04/09/2009	35,000	510	7,800	1,000	4,300									35.05	23.02		12.03	25.9	433
S-13	05/18/2009	35,000	820	7,000	1,100	6,600									35.05	23.07		11.98	5.21	83
S-13	07/23/2009	18,000	1,800	3,000	480	2,500									35.05	23.51		11.54	1.23	148
S-13	10/01/2009	2,000	330	87	33	5.2									35.05	23.61		11.44	1.23	413
S-13	11/09/2009	15,000	1,100	1,500	300	1,800									35.05	23.41		11.64	0.71	
S-13	12/01/2009	1,600	210	190	34	36									35.05	23.15		11.90	16.3	231
S-13	01/28/2010	5,900	370	930	100	680									35.05	22.94		12.11	2.18	011
S-13	05/20/2010	400	35	120	9.5	52									35.05	23.36		11.69 11.85	0.31	211 412
S-13	06/22/2010	16,000	570	3,000	260	2,000									35.05 35.05	23.20 24.00		11.05	1.10 0.90	400
S-13	08/31/2010	3,000	140 600	490 1,700	83 260	540 1,700									35.05	23.48		11.57	0.69	231
S-13 S-13	12/29/2010 02/01/2011	8,700 2,100	170	390	75	410									35.05	22.71		12.34	1.10	248
S-13	04/25/2011	6,000	600	1,800	270	1,300									35.05	21.15		13.90	0.19	69
S-13	07/28/2011	3,700	320	430	160	790				term to					35.05	20.64		14.41	2.65	44
S-13	10/28/2011	8,100	600	830	380	1,700									35.05	21.47		13.58	3.67	1
S-13	05/07/2012	5,100	540	670	320	1,100									35.05	21.35		13.70	0.60	-176
S-13	12/11/2012	5,900	420	580	260	950									35.05	22.91		12.14	1.07/0.80	-70/-63
S-13	05/02/2013	1,300	130	95	49	85									35.05	25.24		9.81		
	, ,	•																		
S-14	12/17/2007							*****							34.94	22.68		12.26		
S-14	02/08/2008	5,300 f	380	300	34	970		<10					< 5.0	<10	34.94	22.82		12.12		
S-14	05/08/2008	4,300 f	750	270	30	520		<10					< 5.0	<10	34.94	22.41		12.53		
S-14	Well destroyed									,										
S-14R	11/07/2008														35.19	22.91		12.28		
S-14R	11/11/2008	8,500 i	680 i	270 i	<25 i	1,110 i									35.19	23.13		12.06	0.60	115
S-14R	11/11/2008	4,300 j	270 j	190 j	43 j	470 j									35.19	23.13		12.06	1.5	116
S-14R	12/18/2008	7,800	530 [°]	640	79	1,010		`.							34.95	22.80		12.15		
S-14R	01/05/2009	2,100	89	86	19	140									34.95	22.80		12.15		
S-14R	01/15/2009	4,800	430	540	83	730	****								34.95	22.57		12.38		
S-14R	02/12/2009	1,000	40	29	7.3	55									34.95	22.89		12.06		
S-14R	03/12/2009	350	22	18	3.3	29									34.95	22.39		12.56		
S-14R	04/09/2009	2,300	230	240	47	250									34.95	22.35		12.60	0.30	430
S-14R	05/18/2009	750	51	48	17	67									34.95	22.20		12.75	5.63	93
S-14R	07/23/2009	600	81	5 <i>7</i>	19	47									34.95	22.56		12.39	0.05	246
S-14R	10/01/2009	230	12	10	5.3	23									34.95	22.90		12.05	2.22	201
S-14R	11/09/2009	330	47	21	11	39									34.95	22.68		12.27	0.75	
S-14R	12/01/2009	420	38	27	12	39									34.95	22.62		12.33	0.45	110
S-14R	01/28/2010	270	45	27	11	32	·								34.95	22.38		12.57	3.75	100
S-14R	05/20/2010	330	17	10	2.7	13									34.95	22.72		12.23	0.96	102
S-14R	08/31/2010	130	5.8	3.5	1.4	6.1					-				34.95	23.12		11.83	1.55	-13
S-14R	12/29/2010	480	56	30	13	52				****					34.95	22.75		12.20	0.48	375

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (μg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-14R	02/01/2011	570	56	32	20	59									34.95	22.10		12.85	0.58	143
S-14R	04/25/2011	860	100	59	41	97									34.95	20.80		14.15	0.81	-37
S-14R	07/28/2011	970	100	80	51	110									34.95	20.36		14.59	0.56	151
S-14R	10/28/2011	420	47	38	25	67							·		34.95	20.68		14.27	3.97	321
S-14R	05/07/2012	630	68	62	40	120									34.95	20.77		14.18	2.47	238
S-14R	05/02/2013	3,200	200	130	95	200									34.95	24.49		10.46		
S-15	12/17/2007														35.34	23.00		12.34		
S-15	02/08/2008	55,000 f	6,700	13,000	1,100	9,800		<10					< 5.0	<10	35.34	22.71		12.63		
S-15	05/08/2008	53,000 f	6,300	13,000	1,500	7,500		<200					<100	<200	35.34	22.91		12.43		
S-15	Well destroyed	l																		
S-16	12/17/2007														36.08	23.88		12.20	c	
S-16	02/08/2008	6,000 f	670	730	88	1,290		<5.0					<2.5	<5.0	36.08	23.52		12.56		
S-16	05/08/2008	3,200 f	670	320	18	580		<10					<5.0	<10	36.08	23.69		12.39		
S-16	Well destroyed																			
S-17	06/19/2008														35.49	23.30		12.19	'	
S-17	06/25/2008	21,000	1,300	1,300	160	2,850		<5.0					<2.5	<5.0	35.49	23.33		12.16		
S-17	08/14/2008	14,000	1,700	1,700	310	2,250		<10					<5.0	<10	35.49	23.50		11.99		
S-17	11/11/2008	7,200 i	1,600 i	820 i	140 i	760 i		<5.0 i					<2.5 i	<5.0 i	35.49	23.70		11.79		
S-17	11/11/2008	32,000 j	2,500 j	3,100 j	820 j	4,000 j		<25 j					<12 j	<25 j	35.49	23.70		11.79		·
S-17	01/05/2009	15,000	790	700	150	1,200		<10					<5.0	<10	35.50	23.66	·	11.84		
S-17	01/15/2009	2,300	220	170	19	300									35.50	23.37		12.13		
S-17	02/12/2009	4,700	<i>7</i> 50	200	37	23									35.50	23.66		11.84		
S-17	03/12/2009	3,300	640	370	81	290									35.50	23.24		12.26		
S-17	04/09/2009	1,300	200	110	37	100									35.50	23.20		12.30	0.69	429
S-17	05/18/2009	630	97	44	17	25									35.50	23.21		12.29	5.93	442
S-17	07/23/2009	3,900	480	410	160	480									35.50	23.70		11.80	0.15	34
S-17	10/01/2009	1,300	32	24	3.1	72									35.50	23.64		11.86	1.30	204
S-17	11/09/2009	5,300	260	330	56	500		nor est and							35.50	23.52		11.98	0.18	
S-17	12/01/2009	3,300	190	210	52	240									35.50	23.41		12.09	0.95	450
S-17	01/28/2010	3,500	260	250	85	310									35.50	23.21		12.29	1.93	
S-17	05/20/2010	370	18	<1.0	<1.0	<1.0									35.50	23.65		11.85	1.31	544
S-17	08/31/2010	1,900	120	110	52	260									35.50	23.92		11.58	1.32	370
S-17	12/29/2010	2,600	200	150	91	280									35.50	23.60	*****	11.90	1.37	131
S-17	02/01/2011	950	100	72	47	130									35.50	22.91		12.59	1.40	136
S-17	04/25/2011	2,000	150	71	77	210		-							35.50	21.44		14.06	0.23	82
S-17	07/28/2011	3,400	270	98	170	370									35.50	21.06		14.44	1.45	70
S-17	10/28/2011	270	58	5.3	23	28									35.50	21.51		13.99	1.19	221
S-17	05/07/2012	980	110	3.6	66	100									35.50	21.50		14.00	0.62	84
S-17	05/02/2013	570	62	20	19	49									35.50	25.49		10.01		

TABLE 1

Well ID	Date	TPHg (µg/L)	B (μg/L)	T (μg/L)	E (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-18	06/19/2008														35.04	22.94		12.10		
S-18	06/25/2008	58,000	2,200	5,600	880	10,200		<10					< 5.0	<10	35.04	22.92		12.12		
S-18	08/14/2008	25,000	2,500	4,500	860	5,800		<50					<25	<50	35.04	23.08		11.96		
S-18	11/11/2008	24,000 i	2,400 i	3,300 i	820 i	3,800 i		<25 i					<12 i	<25 i	35.04	23.30		11.74		
S-18	11/11/2008	43,000 j	3,900 j	5,500 j	1,300 j	6,500 j		<50 j					<25 j	<50 j	35.04	23.30		11.74		
S-18	01/05/2009	20,000	830	1,000	290	1,400		<50					<25	<50	35.03	23.16		11.87		
S-18	01/15/2009	8,200	690	790	150	1,230									35.03	22.97		12.06		
S-18	02/12/2009	13,000	1,200	1,400	330	940		· '							35.03	23.29		11.74		
S-18	03/12/2009	52,000	5,300	9,000	1,600	10,000									35.03	22.85		12.18		
S-18	04/09/2009	Insufficien	ıt water												35.03	22.79		12.24		
S-18	05/18/2009	6,700	320	1,100	200	1,000		***							35.03	22.81		12.22	6.51	377
S-18	07/23/2009	8,900	500	890	290	1,600									35.03	22.91	****	12.12	0.20	
S-18	10/01/2009	1,800	49	5.5	5.3	< 5.0									35.03	23.65		11.38	6.25	55 <i>7</i>
S-18	11/09/2009	1,100	79	8.9	5.3	1.1									35.03	23.19		11.84	0.26	
S-18	12/01/2009	570	50	7,5	2.7	1.2	-								35.03	23.12		11.91	4.07	460
S-18	01/28/2010	1,200	170	91	18	68									35.03	22.86		12.17	1.90	
S-18	05/20/2010	3,900	500	690	79	240									35.03	23.12		11.91	1.77	169
S-18	06/22/2010	13,000	1,700	2,800	200	1,000									35.03	23.10		11.93	0.58	499
S-18	08/31/2010	6,600	970	1,100	230	1,000									35.03	23.55		11.48	1.23	258
S-18	12/29/2010	8,500	1,000	750	410	1,800									35.03	23.23		11.80	0.79	70
S-18	02/01/2011	2,100	210	190	87	180						'			35.03	22.52		12.51	1.13	220
S-18	04/25/2011	13,000	2,100	2,000	470	2,300									35.03	21.00		14.03	0.52	85
S-18	07/28/2011	8,200	1,200	1,000	290	1,200									35.03	20.56		14.47	1.57	27
S-18	10/28/2011	9,000	1,200	480	430	1,900				****					35.03	21.11		13.92	1.45	147
S-18	05/07/2012	4,700	710	310	310	870									35.03	21.20		13.83	0.55	-68
S-18	05/02/2013	5,000	720	280	220	480									35.03	24.95		10.08		
C 10	11 /07 /0000														34.78	22.73		12.05		
S-19	11/07/2008	7.100	 :	600 i	 25 i	1,010 i									34.78	22.87	<u> </u>	11.91	1.0	62
S-19	11/11/2008	7,100 i	500 i												34.78	22.87		11.91	1.3	71
S-19	11/11/2008	2,300 j	110 j	160 j	43 j	280 j									34.57	22.60		11.97		71
S-19	12/18/2008	2,900	190	300	41	420									34.57	22.56		12.01		
S-19	01/05/2009	3,400	230	250	50 70	380									34.57	22.31		12.26		
S-19	01/15/2009	3,100	340	540	70	440	,									22.58		11.99		
S-19	02/12/2009	1,300	130	180	37	190									34.57			12.13		
S-19	03/12/2009	880	110	150	30	160			***						34.57	22.44			0.57	
S-19	04/09/2009	1,300	140	190	32	190									34.57	22.02		12.55	0.57 6.47	106 <i>7</i> 5
S-19	05/18/2009	780	69	87	17	100									34.57	22.04		12.53	6.47	
S-19	07/23/2009	400	77	59	15	38									34.57	22.40		12.17	0.06	31
S-19	10/01/2009	1,500	160	170	33	120					·				34.57	22.66		11.91	0.52	301
S-19	11/09/2009	1,600	140	160	41	160									34.57	22.44		12.13	0.26	1/1
S-19	12/01/2009	1,600	150	180	45	170									34.57	22.62		11.95	0.79	161

TABLE 1

Well ID	Date	TPHg (µg/L)	B (µg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDC (µg/L)	EDB (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-19	01/28/2010	2,600	230	280	71	300									34.57	22.29		12.28	1.71	
S-19	05/20/2010	850	110	55	11	4.6									34.57	22.49		12.08	1.77	118
S-19	08/31/2010	580	79	92	22	50									34.57	22.86		11.71	1.02	297
S-19	12/29/2010	920	120	120	5 4	150									34.57	22.48		12.09	1.12	150
S-19	02/01/2011	1,800	210	270	100	320									34.57	21.78		12.79	1.08	21
S-19	04/25/2011	2,100	290	360	140	470									34.57	20.42		14.15	0.25	115
S-19	07/28/2011	2,400	240	380	140	450									34.57	20.16		14.41	1.17	80
S-19	10/28/2011	3,600	210	420	190	<i>7</i> 50									34.57	20.41		14.16	1.73	160
S-19	05/07/2012	3,400	. 220	480	210	880									34.57	20.51		14.06	2.54	244
S-19	12/11/2012	1,700	110	240	100	440									34.57	22.05		12.52	0.89/2.21	81/52
S-19	05/02/2013	1,500	88	89	55	160									34.57	24.15		10.42		
S-20	11/07/2008														34.50	22.80		11.70		
S-20	11/11/2008	13,000 i	1,300 i	1,600 i	80 i	1,920 i									34.50	22.90		11.60	0.8	-39
S-20	11/11/2008	16,000 j	1,100 j	1,800 j	220 j	1,930 j									34.50	22.90		11.60	2.6	-64
S-20	01/05/2009	17,000	1,500	1,700	320	1,900							~		34.50	22.78	~~~	11.72		
S-20	02/12/2009	11,000	1,300	1,400	230	1,600									34.50	22.80		11.70	2.6	-64
S-20	03/12/2009	19,000	2,700	3,200	390	3,100								-	34.50	22.40		12.10		
S-20	04/09/2009	8,200	80	480	220	490									34.50	22.90		11.60	13.80	578
S-20	05/18/2009	21,000	970	1,500	630	4,800							·	~	34.50	22.42		12.08	4.58	197
S-20	07/23/2009	41,000	4,900	2,900	990	7,300									34.50	22.73	-	11.77	0.27	419
S-20	10/01/2009	1,800	140	39	33	39									34.50	23.00		11.50	0.85	533
S-20	11/09/2009	21,000	1,600	740	300	2,500									34.50	22.72		11.78	1.67	
S-20	12/01/2009	12,000	1,100	450	160	1,200						****			34.50	22.61		11.89	1.38	347
S-20	01/28/2010	20,000	2,000	1,600	260	2,000									34.50	22.51	·	11.99	4.40	
S-20	05/20/2010	4,300	1,100	110	26	61	·								34.50	22.90		11.60	8.96	555
S-20	06/22/2010	7,100	1,300	550	120	550		,							34.50	23.19		11.31	11.64	637
S-20	08/31/2010	9,600	1,800	1,400	230	580	******								34.50	23.13		11.37	0.94	529
S-20	12/29/2010	19,000	2,000	3,100	860	3,200									34.50	22.72		11.78	0.92	193
S-20	02/01/2011	26,000	3,900	7,100	1,300	5,800									34.50	22.04		12.46	1.03	390
S-20	04/25/2011	41,000	6,600	11,000	2,000	9,800									34.50	20.60		13.90	0.43	156
S-20	07/28/2011	34,000	4,200	5,300	1,400	6,300								~~=	34.50	20.30		14.20	1.25	-15
S-20	10/28/2011	17,000	1,500	1,900	1,000	3,400									34.50	20.78		13.72	1.28	431
S-20	05/07/2012	9,900	760	1,200	790	2,000									34.50	20.54		13.96	1.92	-106
S-20	12/11/2012	9,700	630	1,000	720	1,500									34.50	22.29	,	12.21	0.82/1.67	-11/-43
S-20	05/02/2013	4,500	380	220	240	300									34.50	24.50		10.00		
S-21A	11/07/2008														35.81	23.73		12.08	,	
S-21A	11/11/2008	96,000 i	6,100 i	11,000 i	1,700 i	10,500 i									35.81	23.86		11.95	1.6	-42
S-21/1	11/11/2008	87,000 j	6,300 j	13,000 j	1,700 j	10,300 j									35.81	23.86		11.95	1.8	-51
S-21/1	12/18/2008	17,000	3,700	1,200	170	47									35.80	23.91		11.89		
S-21A	01/05/2009	28,000	3,100	2,900	450	1,100					***				35.80	23.78		12.02		
	, 00, 200)	,	-,	-,,		-,										* .				

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	E (μg/L)	X (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
S-21A	01/15/2009	9,700	2,100	290	45	<25									35.80	23.53		12.27		
S-21A	02/12/2009	19,000	3,100	2,500	330	500		,							35.80	23.83		11.97		
S-21A	03/12/2009	31,000	2,600	3,800	810	3,700									35.80	23.35		12.45		
S-21A	04/09/2009	7,800	700	750	130	<25									35.80	24.00		11.80	0.91	304
S-21A	05/18/2009	15,000	1,800	2,200	390	1,900									35.80	23.46		12.34	2.37	529
S-21A	07/23/2009	51,000	4,800	7,100	1,100	7,000									35.80	23.85		11.95	0.14	-3
S-21A	10/01/2009	18,000	2,300	2,200	310	2,400									35.80	24.06		11.74	7.92	575
S-21A	11/09/2009	41,000	3,500	5,800	600	4,800									35.80	23.73		12.07	0.34	
S-21A	12/01/2009	43,000	3,100	6,700	640	4,900									35.80	23.60		12.20	2.55	350
S-21A	01/28/2010	65,000	3,900	9,900	970	6,600									35.80	23.54		12.26	1.43	
S-21A	05/20/2010	6,000	670	760	110	150									35.80	23.92		11.88	1.37	541
S-21A	06/22/2010	16,000	690	2,000	370	2,300									35.80	23.87		11.93	2.33	439
S-21A	08/31/2010	5,000	230	420	190	990									35.80	24.13		11.67	0.73	392
S-21A	12/29/2010	5,100	500	430	230	810						~~~			35.80	23.84		11.96	0.95	464
S-21A	02/01/2011	9,200	840	<i>7</i> 50	370	1,300									35.80	23.18		12.62	0.84	110
S-21A	04/25/2011	22,000	3,800	4,000	960	4,800				~~~					35.80	21.71		14.09	0.36	336
S-21A	07/28/2011	27,000	3,400	3,600	1,000	4,300									35.80	21.48		14.32	1.02	223
S-21A	10/28/2011	20,000	2,400	3,000	840	3,600									35.80	21.65		14.15	2.06	213
S-21A	05/07/2012	12,000	2,200	1,900	510	2,100									35.80	21.90		13.90	1.01	107
S-21A	12/11/2012	13,000	3,300	2,200	610	1,300									35.80	22.60		13.20	1.35/1.49	82/80
S-21A	05/02/2013	6,800	1,000	470	270	480									35.80	25.48		10.32		
C 04P	44 (07 (2000														0.5.70	22.60				
S-21B	11/07/2008		10.			<u>-</u>									35.79	23.68		12.11	0.4	100
S-21B	11/11/2008	3,200 i	49 i	300 i	93 i	510 i	~~~								35.79	23.80		11.99 11.99	0.4 5.6	-108
S-21B	11/11/2008	7,500 j	67 j	470 j	150 j	960 j									35.79 35.76	23.80		11.99	J.6 	-135
S-21B	12/18/2008	5,300	36	310	120	770									35.76 35.76	23.72 23.70		12.04		
S-21B	01/05/2009	5,400	35	200	93	600 470									35.76	23.43		12.33		
S-21B	01/15/2009	3,300	30 12	150 100	78 69	470 450									35.76	23.43		11.95		
S-21B S-21B	02/12/2009 03/12/2009	2,800 2,300	12 9.4	72	50	320									35.76	23.32		12.44		
S-21B S-21B	03/12/2009	890	9. 4 14	55	50 19	140									35.76	23.20		12.56	0.56	453
S-21B S-21B	05/18/2009	390		14	12	27									35.76	23.24		12.52	1.62	458
S-21B S-21B	05/18/2009	390	6.8												35.76	23.40		12.36		
S-21B	07/23/2009	920	5.0	17	28	120									35.76	23.52		12.24	0.26	37
S-21B	10/01/2009	820	2.6	10	28 17	89							,		35.76	23.95		11.81	0.96	353
	01/28/2010	810	2.6 11	6.2	10	51									35.76	23.30		12.46		
S-21B S-21B	05/20/2010	120	1.4	2.6	2.0	2.7									35.76	23.46		12.30	1.63	206
S-21B	08/31/2010	500	0.81	3.4	6.9	32									35.76	24.04		11.72	0.72	45
S-21B S-21B	12/29/2010	310	<0.50	3.4. 1.9	4.5	32 21									35.76	23.59		12.17	0.40	191
S-21B S-21B	02/01/2011	270	<0.50	2.0	4.0	16									35.76	23.08		12.17	0.40	10
	04/25/2011	250	<0.50	1.9	4.6	16									35.76 35.76	21.86		13.90	1.43	72
S-21B S-21B	04/25/2011	250 270	<0.50 <0.50	0.84	3.0	16 11									35.76 35.76	21.32		13.90	2.86	127
5-21D	07/28/2011	270	~ 0.50	0.04	5.0	11									33.70	21,32		14,44	2.00	14/

19.21 19.72 19.7	Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	E (µg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	EDC (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	DO (mg/L)	ORP (mV)
Section Sect	S-21B .	10/28/2011	220	< 0.50	0.53	2.3	9.2	-						·		35.76	21.52	·	14.24	0.96	153
	S-21B	05/07/2012	170	< 0.50	0.62	1.5	7.6									35.76	22.04		13.72	0.75	100
	S-21B	05/02/2013	<50	<0.50	<0.50	<0.50	<1.0									35.76	25.59		10. 17		
S-22A 17/18/2008 42.000 63.00 63.00 63.00 4.000							•														
S-22A 01/05/2009 5.000 4.500 5.500 1.200 6.400					•	. ,	-														
S-22A 07/15/2009 25,000 5,900 4,400 740 1,570																					
S-22A 03/12/2009 43,000 6,700 6,600 1,200 5,000					•	•															
\$2.20. 03/12/2009 35,00 4,600 4,600 980 4,600 - - - - - 35,06 22,65 - 12,41 5-5 \$-22.A 04/07/2009 22,000 1,00 1,800 5,90 3,700 - - - 35,06 22,83 - 12,23 2,46 539 \$-22.A 07/12/2009 4,000 5,100 4,900 700 4,900 - - - 35,06 23,01 - 12,05 0.18 167 \$-22.A 1/10/1/2009 12,00 1,400 60 88 500 - - - 35,06 23,01 - 12,41 - - - 2,22 12/10/1009 24,00 2,000 190 1,300 - - - - 35,06 23,14 - 11,92 1,74 - - - - 35,06 23,14 - 11,02 1,43 6 <				*.	•		•					~~~									
\$-22.0 04/09/2009 22.00 12.0 1,900 680 3.400 - - - - 35.06 22.88 - 12.18 8.41 559 \$-22.0 05/18/2009 25,000 4,700 1,000 590 3,700 - - - 35.06 22.83 - 12.05 0.18 599 \$-22.0 10/19/2009 12,000 1,400 600 88 500 - - - 35.06 23.01 - 12.05 0.18 167 \$-22.1 11/9/2009 13,000 2700 190 1,300 - - - 35.06 23.01 - 12.0 4.08 52.2 1/21/9/2009 18.00 2700 190 1,300 - - - 35.06 23.10 - 11.06 303 62.21 1/21/201 11.06 10.0 30.0 23.0 23.00 2.000 - - - 35.06 23.22																					
S-22A 05/18/2009 25,000 4,700 1,300 590 3,700 - - - 35,06 22.83 - 12.23 2,46 599 S-22A 07/12/2009 40,000 5,100 4,800 700 4,900 - - - 35,06 23.01 12.03 4,88 522 S-22A 11/09/2009 18,000 2,700 2,000 190 1,300 - - - 35,06 23.14 11.92 1,74 - S-22A 11/09/2009 2,000 2,000 2,000 2,000 2,000 - - - 35,06 23.14 11.92 1,74 - S-22A 12/01/2009 24,000 2,300 600 4,800 - - - 35,06 23.14 11.96 1.06 99 S-22A 06/22/2010 3,00 38 - - - - 35,06 23.21 - 1.14 1.0																					
S-22A 07/23/2009 40.000 5,100 4,800 700 4,900 - - - 35.06 23.01 - 12.05 0.18 167 5-22A 10/01/2009 12,000 1,400 600 88 500 - - - 35.06 23.01 - 12.00 4.08 523 5-22A 11/09/2009 18,000 2,700 2,900 2,900 2,900 2,900 2,900 2,900 2,900 2,900 2,900 2,900 2,900 2,900 2,900 1.19,6 1.06 393 5-22A 01/28/2010 3,100 38 <10					•																
\$-22.A 10/01/2009 12,000 1,400 600 88 500					•																
522A 11/09/2009 18,000 2.700 2.000 190 1,300																					
S-22A 12/01/2009 24,000 2,300 2,300 2,000 - - - - - 35,06 23,10 11,06 106 393 S-22A 01/28/2010 44,000 3,600 5,000 620 4,300 - - - - 35,06 22,92 12,14 14.0 - S-22A 05/29/2010 3,100 38 <10																					
5-22A 01/28/2010 44,000 3,600 5,000 620 4,300 - - - - 35,06 22.92 - 12,14 1.40 - 5-22A 05/20/2010 3,100 38 <10																					
5-22A 05/20/2010 3,100 38 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <11 <11.84 0.48 423 5-22A 06/22/2010 2,400 110 15 4.3 6.6 35.06 23.51 <11.55																					
S-22A 06/22/2010 2,400 110 15 4.3 6.6 - - - - 35.06 23.51 - 11.55 6.10 542 S-22A 08/31/2010 5,000 690 600 78 350 - - - 35.06 23.52 - 11.54 1.03 553 S-22A 12/29/2010 13,000 1,800 490 2,100 - - - 35.06 23.17 - 11.89 0.70 476 S-22A 02/01/2011 13,000 1,800 3,100 640 2,800 -<					•																
S-22A 08/31/2010 5,000 690 600 78 350 — — — — 35,06 23,52 — 11,54 1,03 553 S-22A 12/29/2010 13,000 13,00 1800 490 2,100 — — — — 35,06 22,37 — 11,59 0,70 476 S-22A 04/25/2011 13,000 2,60 5,500 1,20 6,200 — — — — — 35,06 22,45 — 12,61 0.89 436 552 0/25/2011 23,000 2,600 5,500 1,200 6,200 — — — — — 35,06 22,45 — 13,69 40,00 2,000 13,600 1,800 8,800 2,000 12,000 — — — — — — — — — — — — — — — — — — —								*********					-								
S-22A 12/29/2010 13,000 1,800 490 2,100																					
S-22A 02/01/2011 13,000 1,800 3,100 640 2,800 - - - - - 35.06 22.45 - 12.61 0.89 453 S-22A 04/25/2011 23,000 2,600 5,500 1,200 6,200 -<																					
S-22A 04/25/2011 23,000 2,600 5,500 1,200 6,200																					
S-22A 07/28/2011 Well inaccessible — <					•																
S-22A 10/28/2011 31,000 1,800 4,700 1,600 8,100			•		5,500	1,200	6,200										21.37		13.69	0.40	506
S-22A 05/07/2012 40,000 2,000 7,200 2,000 12,000						-															
S-22A 12/11/2012 54,000 1,800 8,900 2,400 14,000			•	•	-																
S-22A 05/02/2013 53,000 1,800 6,800 2,200 11,000					•																
S-22B 11/07/2008 <td></td> <td>•</td> <td>-14/-21</td>																				•	-14/-21
S-22B 11/11/2008 <50 i	S-22A	05/02/2013	53,000	1,800	6,800	2,200	11,000									35.06	24.71		10.35		
S-22B 11/11/2008 360 j 3.3 j 12 j 5.8 j 38 j	S-22B	11/07/2008														35.15	23.06		12.09		
S-22B 12/18/2008 150 2.9 6.1 2.9 17.5 35.24 23.26 11.98 S-22B 01/05/2009 110 1.9 5.0 2.6 11 35.24 28.12 7.12 S-22B 01/15/2009 59 1.3 1.9 1.6 <1.0 35.24 22.90 12.34 S-22B 02/12/2009 290 11 6.8 7.9 19 35.24 23.02 12.32 S-22B 03/12/2009 390 4.4 4.6 3.8 12 35.24 22.86 12.38 S-22B 04/09/2009 280 5.3 2.5 4.0 6.8 35.24 22.62 12.62 2.24 164 S-22B 05/18/2009 170 3.7 2.9 2.4 8.6 35.24 22.62 12.62 1.42 -171	S-22B	11/11/2008	<50 i	<0.50 i	<1.0 i	<1.0 i	1.2 i									35.15	23.20		11.95	0.9	92
S-22B 12/18/2008 150 2.9 6.1 2.9 17.5	S-22B	11/11/2008	360 j	3.3 j	12 j	5.8 j	38 j									35.15	23.20		11.95	1.6	90
S-22B 01/05/2009 110 1.9 5.0 2.6 11 35.24 28.12 7.12 S-22B 01/15/2009 59 1.3 1.9 1.6 <1.0 35.24 22.90 12.34 S-22B 02/12/2009 290 11 6.8 7.9 19 35.24 23.02 12.22 S-22B 03/12/2009 390 4.4 4.6 3.8 12 35.24 22.86 12.38 S-22B 04/09/2009 280 5.3 2.5 4.0 6.8 35.24 22.62 12.62 2.24 164 S-22B 05/18/2009 170 3.7 2.9 2.4 8.6 35.24 22.62 12.62 1.42 -171	S-22B		,		,	,										35.24	23.26		11.98		
S-22B 01/15/2009 59 1.3 1.9 1.6 <1.0 35.24 22.90 12.34 S-22B 02/12/2009 290 11 6.8 7.9 19 35.24 23.02 12.22 S-22B 03/12/2009 390 4.4 4.6 3.8 12 35.24 22.86 12.38 S-22B 04/09/2009 280 5.3 2.5 4.0 6.8 35.24 22.62 12.62 2.24 164 S-22B 05/18/2009 170 3.7 2.9 2.4 8.6 35.24 22.62 12.62 1.42 -171							- 11									35.24	28.12		7.12		
S-22B 03/12/2009 390 4.4 4.6 3.8 12 35.24 22.86 12.38 S-22B 04/09/2009 280 5.3 2.5 4.0 6.8 35.24 22.62 12.62 2.24 164 S-22B 05/18/2009 170 3.7 2.9 2.4 8.6 35.24 22.62 12.62 1.42 -171	S-22B		59		1.9	1.6	<1.0									35.24	22.90		12.34		
S-22B 03/12/2009 390 4.4 4.6 3.8 12 35.24 22.86 12.38 S-22B 04/09/2009 280 5.3 2.5 4.0 6.8 35.24 22.62 12.62 2.24 164 S-22B 05/18/2009 170 3.7 2.9 2.4 8.6 35.24 22.62 12.62 1.42 -171		, ,												******		35.24	23.02		12.22		
S-22B 04/09/2009 280 5.3 2.5 4.0 6.8 35.24 22.62 12.62 2.24 164 S-22B 05/18/2009 170 3.7 2.9 2.4 8.6 35.24 22.62 12.62 1.42 -171													***						12.38		
S-22B 05/18/2009 170 3.7 2.9 2.4 8.6 35.24 22.62 12.62 1.42 -171																				2.24	164
U-ZZD 0//ZU/Z00/ 100 0// U// U// U// U// U// U// U// U// U	S-22B	07/23/2009	160	8.9	5.7	3.8	12					***				35.24	22.65		12.59	0.15	28

Well ID	Date	TPHg	В	T	E	X	MTBE 8020	MTBE 8260	TBA	DIPE	ETBE	TAME	EDC	EDB	тос	Depth to Water	SPH Thickness	GW Elevation	DO	ORP
weii 1D	Dute	(μg/L)	Β (μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)
S-22B	10/01/2009	300	2.4	1.0	1.2	<1.0									35.24	23.18		12.06	2.62	173
S-22B	01/28/2010	< 50	< 0.50	<1.0	<1.0	<1.0						-			35.24	22.73		12.51		
S-22B	05/20/2010	230	< 0.50	<1.0	<1.0	<1.0									35.24	22.88		12.36	6.14	584
S-22B	08/31/2010	<50	0.57	<1.0	<1.0	<1.0									35.24	23.51		11.73	0.92	377
S-22B	12/29/2010	<50	< 0.50	<1.0	<1.0	<1.0									35.24	23.04		12.20	1.07	391
S-22B	02/01/2011	<50	0.55	< 0.50	< 0.50	<1.0									35.24	22.70		12.54	1.07	-3
S-22B	04/25/2011	<50	< 0.50	0.62	< 0.50	1.1							, 		35.24	21.38		13.86	1.37	416
S-22B	07/28/2011	Well inacc	essible												35.24					'
S-22B	10/28/2011	< 50	< 0.50	<1.0	<1.0	<1.0									35.24	20.62		14.62	4.83	-12
S-22B	05/07/2012	< 50	1.4	< 0.50	< 0.50	<1.0									35.24	21.08		14.16	2.84	127
S-22B	05/02/2013	<50	< 0.50	< 0.50	< 0.50	<1.0									35.24	24.68		10.56		
												•								
S-23	11/07/2008														35.77	23.28		12.49		
S-23	11/11/2008	8,800 i	640 i	610 i	82 i	1,260 i		·							35.77	23.58	*****	12.19		
S-23	11/11/2008	6,400 j	520 j	640 j	34 j	760 j									35.77	23.58		12.19		
S-23	01/05/2009	830	63	98	14	58									35.75	23.51		12.24		
S-23	02/12/2009	3,400	160	320	55	430									35.75	23.62		12.13		
S-23	03/12/2009	4,600	210	460	71	610									35.75	23.03		12.72		
S-23	04/09/2009	2,700	180	95	33	< 5.0									35.75	22.98		12.77	1.24	567
S-23	05/18/2009	3,000	350	440	79	300									35.75	23.18		12.57	19.77	503
S-23	07/23/2009	2,900	180	400	67	340									35.75	23.48		12.27	0.21	133
S-23	10/01/2009	790	40	24	5.4	<1.0							'		35.75	23.82		11.93	8.64	428
S-23	11/09/2009	3,200	84	330	90	400									35.75	23.51		12.24	0.28	
S-23	12/01/2009	1,800	47	180	50	190									35.75	23.31		12.44	2.49	472
S-23	01/28/2010	3,000	100	450	110	650									35.75	23.25		12.50	1.74	
S-23	05/20/2010	900	8.2	< 5.0	< 5.0	< 5.0					~~=				35.75	23.80		11.95	3.76	607
S-23	06/22/2010	640	11	22	9.0	11									35. <i>7</i> 5	24.40		11.35	12.96	572
S-23	08/31/2010	710	14	45	34	110									35.75	23,95		11.80	1.25	322
S-23	12/29/2010	1,300	45	82	56	240									35.75	23.61		12.14	1.39	313
S-23	02/01/2011	1,300	51	110	72	270									35.75	22.92		12.83	1.30	107
S-23	04/25/2011	1,300	. 53	110	81	400									35.75	21.62		14.13	0.96	321
S-23	07/28/2011	1,400	43	79	74	320									35.75	21.28		14.47	0.92	209
S-23	10/28/2011	1,600	43	83	92	370									35.75	21.50		14.25	1.82	161
S-23	05/07/2012	870	50	40	66	220		200 Mar 200							35.75	21.59		14.16	2.20	254
S-23	05/02/2013	540	2 4	15	5.6	25									35.75	25.04		10.71		
3-23	03/02/2013	340	24	13	3.0	25									55.75	20.01				
AS-1	12/17/2007														35.33	22.91		12.42		
AS-1	02/08/2008	130 f	1.1	3.4	<1.0	5.4	***	<1.0					< 0.50	<1.0	35.33	22.62		12.71		
AS-1	05/08/2008	<50 f	< 0.50	<1.0	<1.0	<1.0		<1.0					< 0.50	<1.0	35.33	27.78		7.55		
Αυ-1	03/00/2000	-501	10.00	-1.0	-1.0	-1.0		-1.0					0.00	-10	00.00	2 , ., 0		,		
OW-1	04/09/2009	Well dry																		
OW-1	05/18/2009	Well dry			*****														'	

							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	TPHg	В	T	E	\boldsymbol{X}	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water	Thickness	Elevation	DO	ORP
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to July 25, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to July 25, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by method noted

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

EDC = 1,2-Dichloroethane analyzed by EPA Method 8260B.

EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B.

TOC = Top of casing elevation, in feet relative to mean sea level

SPH = Separate-phase hydrocarbon

GW = Groundwater

DO = Dissolved oxygen (pre-purge/post purge reading)

ORP = Oxygen redox potential (pre-purge/post purge reading)

 $\mu g/L = Micrograms per liter$

ft = Feet

MSL = Mean sea level

mg/L = Milligrams per liter

mV = Millivolts

< x =Not detected at reporting limit x

--- = Not analyzed or available

(D) = Duplicate sample

- a = Included in xylenes analysis
- b = Analyzed outside of EPA recommended holding time
- c = Depth to water measured from TOC; elevation unknown.
- d = Grab sampled
- e = Casing broken; TOC unknown.
- f = Analyzed by EPA Method 8015B (M)
- g = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
- h = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- i = Pre-purge sample
- j = Post-purge sample

Beginning July 18, 2002, well elevations measured from TOC

Site wells surveyed March 5, 2002 by Virgil Chavez Land Surveying

Site wells surveyed December 18, 2007 by Virgil Chavez Land Surveying

Wells S-14R and S-19 through S-23 surveyed on November 11, 2008 by Virgil Chavez Land Surveying

Well S-5 surveyed on November 11, 2008 by Virgil Chavez Land Surveying

							MTBE	MTBE								Depth to	SPH	GW		
Well ID	Date	TPHg	В	T	E	\boldsymbol{X}	8020	8260	TBA	DIPE	ETBE	TAME	EDC	EDB	TOC	Water	Thickness	Elevation	DO	ORP
		(μg/L)	(μg/L)	(μ g/ L)	(μ g/ L)	(μg/L)	(μg/L)	(μ g/L)	(μ g/ L)	(μg/L)	(μ g/ L)	(μ g/ L)	(μ g/ L)	(μg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	(mg/L)	(mV)

Well S-5 surveyed on October 8, 2009 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. – FIELD NOTES

Project #	130124-WWI	Date 1/24/12	Client SHELL	
ou Mi	9. H CT 111-			

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)		Immiscibles Removed (ml)	Depth to water (ft.)	bottom (ft.)	Survey Point: TOB or	Notes
5-5	ama	4		A control control			16.46	29.65	V-Company	
5-b	091B			(in terrocontamental property			1646 20.43	34.97	1	
										Š
	nije je j	Arritmite de constitue								
	en e	A Constitution of the Cons			The state of the s					
		ekhilimaa jijayye, ee day	A SA							
			nnesuu,typ,upt-	Transport Virginia de Virginia		- Control of the Cont	th downward-respondite			
		A CONTRACTOR OF THE PARTY OF TH								
	MAN MANAGAMA	ī	***						and the second s	
	**************************************	. Venezali i i e e e e e e e e e e e e e e e e e	*			·				
	And the last of th				-					35
		and the state of t						And the second s		
		- And a supplier of the suppli								

			Addition of the second	i de la companya de l				· · · · · · · · · · · · · · · · · · ·		

Sampler: WW Date: 1/24/13											
Total Well Depth (TD): 29.65 Depth to Water (DTW): 16.46 Depth to Free Product: Referenced to: Referenced to: Pure Method: Bailer Positive Air Displacement Electric Submersible Time Temp (°F) PH (ms orgs) Depth to Water (DTW): 16.46 Depth to Water (DTW): 16.46 Time Depth to Water (DTW): 16.46 Depth to Water (DTW): 16.46 Tinickness of Free Product (feet): Referenced to: Thickness of Free Product (feet): Referenced to: Thickness of Free Product (feet): Referenced to: Tinickness of Free Product (feet): Referenced to: Tysl HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.10 Bailer Disposable Bailer Peristaltic Extraction Pump Other: Other: Well Diameter Multiplier Well Diameter Multiplier 1º 0.04 4º 0.65 1.47 1.40 3º 0.37 Other radius * 0.163 Time Temp (°F) pH (ms orgs) (NTUs) Gals. Removed Observations 09.53 64.2 6.77 TILL LL 19 Bailer Disposable Bailer Disposable Bailer Peristaltic Extraction Pump Other: Other: Well Diameter Multiplier Well Diameter Multiplier 1º 0.04 4º 0.65 1.47 1.47 1.40 3º 0.37 Other radius * 0.163 Observations 09.53 64.2 65.7 714 714 714 715 714 714 715 714 714	VORDALIA SPRINGENS										
Depth to Free Product: Referenced to: Pyc Grade D.O. Meter (if req'd): Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible Other Depth to Free Product (feet): Referenced to: Pyc Grade D.O. Meter (if req'd): Waterra Sampling Method: Disposable Bailer Positive Air Displacement Extraction Pump Other Other Other Other Time Temp (°F) pH (mS orgs) (NTUs) Gals. Removed Observations Office Sailer Disposable Bailer Extraction Pump Other Teleptonic Multiplier Well Dismeter Multiplier Well Dismeter Multiplier Well Dismeter Multiplier Textraction Port Dedicated Tubing Other Time Temp (°F) pH (mS orgs) (NTUs) Gals. Removed Observations Office Sailer Disposable Bailer Extraction Pump Other Other:	Well Diameter: 2 3 (4) 6 8										
Referenced to: PVC Grade D.O. Meter (if req'd): PTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: / G. O Purge Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Positive Air Displacement Etectric Submersible Other Other Well Diameter Multiplier Well Diameter Multiplier Vell Diameter Nother Vell Diameter Multiplier Vell Diameter Nother Vel	Depth to Water (DTW): /6, 46										
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 79.70 Purge Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Positive Air Displacement Electric Submersible Other Dedicated Tubing Other Well Diameter Multiplier Well Diameter Multiplier Mu	Thickness of Free Product (feet):										
Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible Other Disposable Bailer Peristaltic Disposable Bailer Extraction Pump Other Other: Well Diameter Multiplier Well Diameter Multiplier 1° 0.04 4° 0.65 1.47 2° 0.16 6° 1.47 3° 0.37 Other Time Temp (°F) pH (mS orgs) (NTUs) Other Cond. Turbidity Other Other Other Observations Other Observations Observations Observations Observations Observations Observations Office Service Submersible Office Service Submersible Other Oth											
Disposable Bailer Peristaltic Extraction Pump Other Ot	DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: [G.10										
$ \frac{3.6}{1 \text{ Case Volume}} (\text{Gals.}) \times \frac{3}{\text{Specified Volumes}} = \frac{2.5.8}{\text{Calculated Volume}} (\text{Gals.}) \times \frac{3}{3"} = \frac{2.5.8}{0.16} (\text{Gals.}) \times \frac{3}{3"} = \frac{0.04}{0.16} (\text{Gals.}) \times \frac{4"}{1.47} (\text{Gals.}) \times \frac{3}{3"} = \frac{0.04}{0.37} (\text{Other}) \times \frac{1.47}{\text{radius}^2 * 0.163} \times \frac{1.47}{0.37} (\text{Other}) \times \frac{1.47}{\text{radius}^2 * 0.163} \times \frac{1.47}{0.37} (\text{Other}) \times \frac{1.47}{\text{radius}^2 * 0.163} \times \frac{1.47}{0.37} (\text{NTUs}) \times \frac{1.47}{0.37} (\text{Other}) $											
Time Temp (°F) pH (mS or uS) (NTUs) Gals. Removed Observations 0853 64.2 6.77 714 449 86 oder Well Dan Arman 2 11.8 6ALS 090x 63.8 6.65 805. 267 - oder											
WELL DEN AFEREN E 11.8 GALS 0905 63.2 6.65 805. 267 - odor											
090x 63.2 6.65 805. 267 — own											
Did well dewater? Ses No Gallons actually evacuated: \(\lambda\)											
Sampling Date: 1/24/13 Sampling Time: 105 Depth to Water: 17, 9/											
Sample I.D.: S - S Laboratory: Test America Other	ä [:]										
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:											
EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):											
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:											
D.O. (if req'd): Pre-purge: mg/L Post-purge:	$^{ m mg}/_{ m L}$										
O.R.P. (if req'd): Pre-purge: mV Post-purge:	mV										

	******************************		~~~					~ <u></u>
BTS #: /3c	124-1	WWI		Site: 46	1 31	451.01	TC C	AND I CA
Sampler: V	VW			Date: 1/24/13				
Well I.D.: 5	5-6	CONTROL CONTRO		Well Diameter: 2 3 4 6 8				
Total Well D	epth (TD): 34	.57	Depth to Water (DTW): 20,42				
Depth to Free	e Product	- Emmission		Thickness of Free Product (feet):				
Referenced to	o:	PVC	Grade	D.O. Me	eter (if	req'd):		YSD HACH
DTW with 80	0% Rech	arge [(H	leight of Water	Column	x 0.20)) + DTW]: .	2 <u>3</u> ,	
I	Bailer Disposable B Positive Air L Electric Subm	Displaceme		Waterra Peristaltic tion Pump		Sampling Me	ethod:	Bailer Disposable Bailer Extraction Port Dedicated Tubing
9.5 (Ga 1 Case Volume	als.) X <u>Special</u>	fied Volum	$= \frac{29.5}{\text{Calculated Vol}}$	Gals.	ell Diamete 1" 2" 3"	r Multiplier 0.04 0.16 0.37	Well Di 4" 6" Other	ameter <u>Multiplier</u> 0.65 1.47 radius ² * 0.163
Time	Temp (°F)	рН	Cond. (mS or@S)	Turbio (NTU	•	Gals. Remo	ved	Observations
0923	640	6-66	775	157	1	95		2 dor
0925	64.6	6,35	744	5 7	,	Announce of the second		11
0927	65-4	6.34	704 *	38		28.5		
	·						- Indiana	\$·
NAW .								
Did well dew	ater?	Yes (No?	Gallons a	actually	y evacuated	: 2	3.5
Sampling Dat	te: 1/24	/13	Sampling Time	: 093	35	Depth to W	⁷ ater:	92.58
Sample I.D.:	<u>s-6</u>	·		Laborato	ry: <	Test America	> Ot	her
Analyzed for:	TPH-G	BTEX	MTBE TPH-D	Oxygenate	s (5)	Other:		
EB I.D. (if ap	plicable):	t	(a) Time	Duplicate	e I.D. (if applicabl	e):	
Analyzed for:	TPH-G	BTEX	MTBE TPH-D	Oxygenate	s (5)	Other:	A CONTRACTOR OF THE PARTY NAMED IN	
D.O. (if req'd)): Pre	-purge:		mg/L	Po	ost-purge:	anterior de la constante de la	$^{ m mg}/_{ m L}$
O.R.P. (if req'	d): Pre	-purge:		mV	Po	st-purge:	TATION	mV

WELL GAUGING DATA

St. met							. *
	E			· · · · · · · · · · · · · · · · · · ·			
Project # 1 10 162	$VC\lambda$	n. 1	1 - 1 -		1 A	1271 < HCi	ì
210,0001	4 4 4	Date =		* U	nent 😊	TEM DILL	-
	te e fill because			· .			·····

Site 461 8th Sty Oakland

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Immiscibles Removed		Depth to well bottom (ft.)	Survey Point: TOB or	Notes
S-4	0735	L					21.45	28.30	T	
5-5	0920	4					18,54		Color Person Color Color	
5-6	0670	Ц					22.48	34.96	H. C.	
5-8	0752	Ц				**************************************	24.65	2787	general designations.	
5-91	07-56	4					24.36	2955 34450		
5-10	0752	4					26.53	国主教教育的		
5-12	0736						NU:48	34.02		
5-13	D\$\\$	4					2524	32.46		
5-14(८	0804	Ц					24.49	3426	And Comments of the Comments o	
5-17	0813	1				\$	25.49	35.39	Access (Section Control of Section Control of Secti	
5-18	0816	2					2495	35-07	Avenue september 1	
5-19	0606	¥					24.15	34.45	North Control of Control	
5-20	0812	4					24.50	'54.85	ALL DESCRIPTION (EX-	
5-21A	0816	the state of the s					25.48	26-60	The World of the Books of the	
5-218	0800	4					25.59	39:48	THE CONTRACTOR OF THE CONTRACT	
5-72A	0822			nutri yana a ana a a a a a a a a a a a a a a			24.71	26-6-6	ereky yw. Celebraten	
5-220	0740	H		and the second			24.68	39-65		
5-13 BLAINE TO	USUN.	L CES INC	CAN IO	25 040044		1077	3998	是段級	V	

	**************************************					*****	*,		
BTS #: 13	<u>0501-7</u>	<u> 20(</u>		Site: 9743399					
Sampler:	<u></u>			Date: 5/z/13					
Well I.D.:	5-4			Well D	iameter:	: 2 3 4	6 8		
Total Well I	Depth (TD):38.3	30	Depth 1	Depth to Water (DTW): 2(.4)5				
Depth to Fre				l'		ree Product (fee			
Referenced	to:	(PVC)	Grade	D.O. M	leter (if	req'd):	YSI HACH		
DTW with 8	30% Recha	arge [(H	leight of Water	* * * * * * * * * * * * * * * * * * *	······································) + DTW]:			
	Bailer Disposable Ba Positive Air D Electric Subm	Displacemen		Waterra Peristaltic ction Pump	Well Diamete		Bailer Disposable Bailer Extraction Port Dedicated Tubing		
4.5 (C) I Case Volume		3 fied Volum		_ Gals.	1" 2" 3"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47		
Time	Temp (°F)	pН	Cond. (mS or (48)	i	bidity TUs)	Gals. Removed	Observations		
1005	163.2	624	381.6	>(0.	90	4.5			
1008	well	devat							
1025	62-o	672	HOGE	700	<u>30</u>				
Did well dev	water?	Yes	No	Gallon	s actuall	ly evacuated:	5		
Sampling D	ate: 5/2/	13	Sampling Time	e: (02:	5	Depth to Water	r: 77.10		
Sample I.D.	: 5-4	- 145-4-1484H-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		Labora	tory: (Test America?	Other		
Analyzed fo	r: (TPH-G	BTEX	MTBE TPH-D (Oxygena	ates (5)	Other:	Management of the control of the con		
EB I.D. (if a	ipplicable)):	@ Time	Duplic	ate I.D.	(if applicable):			
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	. ,	Other:			
D.O. (if req'	d): Pr	re-purge:		$^{ m mg}\!/_{ m L}$	Р	Post-purge:	$^{ m mg}\!/_{ m L}$		
O.R.P. (if re	q'd): Pr	re-purge:		mV	Р	Post-purge:	mV		

,		***************************************		-					
BTS#: 13	0502-1	PC(Site: 961-84 ST OMELIAND, CH					
Sampler: 4	M			1	Date: 5/2/13				
Well I.D.:			Well D	iameter	: 2 3 (4)	6 8			
Total Well I):24.5	FE .	Depth 1	Depth to Water (DTW): 16.59					
Depth to Fre		((ree Product (fee			
Referenced	to:	PMC)	Grade	D.O. M	leter (if	req'd):	YSI HACH		
DTW with 8	30% Recha	arge [(H	leight of Water	Columr	1 x 0.20))+DTW]: 2(o.79 *		
Purge Method:	Bailer Disposable Ba Positive Air D Electric Subm	ailer Displacemer		Waterra Peristaltic ction Pump		Sampling Method: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing		
1 Case Volume	Gals.) X	3 fied Volum		_ Gals.	Well Diameter 1" 2" 3"	er Multiplier Well I 0.04 4" 0.16 6" 0.37 Other	Diameter Multiplier		
Time	Temp (°F)	pН	Cond. (mS or (IS)	1	oidity (Us)	Gals. Removed	Observations		
0930	67.5	7-45	630.3	>100	<i>9</i> 0	7,1	fuel odor		
0932	well do	mate	red O	0 61	H 5				
69×2	70.3	7-10	696-6	>(0	<u>00</u>		fuel Der		
						man de manage			
Did well dev	water?	(Fès	No	Gallons	s actuall	ly evacuated: [٥		
Sampling D	ate: 5/2	113	Sampling Time	e: <u>094</u> 7	2	Depth to Water	r: 20-70		
Sample I.D.	: 5-6			Labora	tory: (Other		
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ites (5)	Other: See	Sow		
EB I.D. (if a	upplicable)):	@ Time	Duplica	ate I.D.	(if applicable):	<u></u>		
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:	***************************************		
D.O. (if req'	d): Pr	re-purge:		mg/L	P	ost-purge:	nig/L		
O.R.P. (if re	q'd): Pr	re-purge:		mV	P	ost-purge:	mV		

BTS#: (3:	Go 2 - ?			Site: 468 8th ST. DARLEND, CA				
Sampler:	hre			Date: 5/2/13				
Well I.D.:	5-6			Well Diameter: 2 3 4 6 8				
Total Well	Depth (TD): 34	.95	Depth to Wate	er (DTW): 27	, 98		
Depth to Fr	ee Product	•		Thickness of Free Product (feet):				
Referenced	to:	eve	Grade	D.O. Meter (i	f req'd):	YSI HACH		
DTW with	80% Recha	urge [(H	eight of Water	Column x 0.20	0) + DTW]: 2	5_37		
Purge Method:	Bailer Disposable Bailer Positive Air Delectric Subm)isplaceme		Waterra Peristaltic tion Pump Well Diamo	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing		
1 Case Volume	Jais.) A	S fied Volum	= 23. Y es Calculated Vo	Gals. 1"	ter Multiplier Well 0.04 4" 0.16 6" 0.37 Othe	Diameter Multiplier 0.65 1.47 r radius² * 0.163		
Time	Temp (°F)	pН	Cond. (mS or (18)	Turbidity (NTUs)	Gals. Removed	Observations		
0838	68.1	十32	529.4	125	7-8			
0839	67. (6.88	543	162	15.6			
0841	67.2	6 85	547	195	23.4			
44-44-47-44-44-44-44-44-44-44-44-44-44-4								
Did well de	water?	Yes (No)	Gallons actua	lly evacuated:	73.4		
Sampling D	ate: 5/2	113	Sampling Time	e: 0350	Depth to Wate	r: 24.45		
Sample I.D.	·5-6			Laboratory:	Test America	Other		
Analyzed fo	Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: 500 500							
EB I.D. (if a	applicable)		@ Time	Duplicate I.D.	(if applicable):			
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D.	Oxygenates (5)	Other:			
D.O. (if req	'd): Pr	e-purge:		$^{ m mg}/_{ m L}$	Post-purge:	${ m mg}_{/_{ m L}}$		
O.R.P. (if re	eq'd): Pr	e-purge:		mV	Post-purge:	mV		

BTS #: 13		Site: 9709 8399						
Sampler: Po	C			Date: 5/2/15				
Well I.D.: ≤	;-8			Well Diameter: 2 3 (4) 6 8				
Total Well I	Depth (TD)):	32	Depth to Water (DTW): 24.65				
Depth to Fre	ee Product:	•		Thickness of Free Product (feet):				
Referenced	to:	(PVP)	Grade	D.O. M	eter (if	req'd):		YSI HACH
DTW with 8	80% Recha	rge [(H	eight of Water	Column	$\times 0.20$) + DTW]	: 195.1	50
Purge Method:	Bailer Disposable Ba Positive Air D Electric Subm	isplaceme	nt Extrac Other	Waterra Peristaltic tion Pump		Sampling	Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing
2 6 (c) 1 Case Volume	Juisi) 12	3 ied Volum	es Calculated Vo	_Gals.	Well Diamete 1" 2" 3"	0.04 0.16 0.37	Well E 4" 6" Other	Diameter Multiplier 0.65 1.47 radius ² * 0.163
Time	Temp (°F)	pН	Cond. (mS or as	1	oidity (Us)	Gals. Rei	moved	Observations
1040	655	4-05	459.1	42	6	2.5	5	
	vel	l deco	ferek					
1300	69.4	6.06	3167	> (%	260	tion-		
,							-	
Did well de	water?	AB	No	Gallons	s actuall	ly evacua	ted: L	·
Sampling D	Date: 5 2	lis	Sampling Tim	e: 13e	ට	Depth to	Wate	r:24,75
Sample I.D.	: 5-8		· 第· · · · · · ·	Labora	tory:	Test Amer	ica (Other
Analyzed for	or: (IPH-G	BTEX	MTBE TPH-D	Oxygena	ites (5)	Other:		
EB I.D. (if	applicable)	*	@ Time	Duplica	ate I.D.	(if applic	able):	
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	, ,	Other:		
D.O. (if req	'd): P1	e-purge:		mg/ _L	P	ost-purge:		mg/ _L
O.R.P. (if re	eq'd): Pr	e-purge:		mV	P	ost-purge:		mV

BTS#: (3	Site: c	17093	339 <u>9</u>		,					
Sampler: P				Date: 512 13						
Well I.D.:	5-9			Well Diameter: 2 3 4 6 8						
Total Well I	Depth (TD):29.5	Depth	to Water	r (DTW)	: 24.5	 36		***************************************	
Depth to Fro	ee Product	*		Thickness of Free Product (feet):						
Referenced	to:	(vc)	D.O. M	leter (if	req'd):		YSI	НАСН	**********	
DTW with 8	80% Recha	arge [(H	eight of Water	Colum	0.20) + DTW	<u>]: 25</u>	<u> 40</u>		
Purge Method:	Bailer Disposable Bailer Positive Air Delectric Subm	Displaceme	nt Extrac Other	Waterra Peristaltic ction Pump			Other:		Bailer Disposable Bailer Extraction Port Dedicated Tubing	
3.4 (Case Volume	Gals.) XSpeci	ేస్త fied Volum		_ Gals.	1" 2" 3"	0.04 0.16 0.37	4" 6" Othe		0.65 1.47 radius ² * 0.163	
Time	Temp (°F)	рĤ	Cond. (mS or uS)	1	bidity TUs)	Gals. Ro	emoved		Observations	
1142	66-3	639	56(.0	40	2	3.1	•			
1143	well	dewa	furel	j		à				
1400	71.5	677	487.9	>(6	990		······································			
									·	
Did well de	water?	Yes)	No	Gallon	s actuall	y evacua	ated:	5		
Sampling D	ate: 5/2	NB	Sampling Time	e:1400)	Depth t	o Wate	r: 2	4.41	
Sample I.D.	: 5-9			Labora	tory:	(Test Ame	rica	Other		
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:				
EB I.D. (if a	applicable)):	@ Time	Duplic	Duplicate I.D. (if applicable):					
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:				
D.O. (if req	d): Pr	e-purge:		mg/ _L	P	ost-purge	;			$^{ m mg}/_{ m L}$
O.R.P. (if re	eq'd): Pr	e-purge:		mV	P	ost-purge	•	<u> </u>	r	nV

BTS#: (30502-PC)	Site: 97093399				
Sampler: V	Date: 5/2/13				
Well I.D.: 5-10	Well Diameter: 2 3 4 6 8				
Total Well Depth (TD): 35.40	Depth to Water (DTW): 25-53				
Depth to Free Product:	Thickness of Free Product (feet):				
Referenced to: Grade	D.O. Meter (if req'd): YSI HACH				
DTW with 80% Recharge [(Height of Water	Column x 0.20) + DTW]: 7 460				
Purge Method: Bailer Disposable Bailer	Waterra Sampling Method:				
$\frac{6.7}{1 \text{ Case Volume}} \text{ (Gals.) X } \frac{3}{\text{Specified Volumes}} = \frac{2.5.1}{\text{Calculated Volumes}}$	Gals. 1" 0.04 4" 0.65 2" 0.16 6" 1.47				
Time Temp (°F) pH Cond. (mS or us)	Turbidity (NTUs) Gals. Removed Observations				
1132 671 6.85 2045	78 6-7				
1134 671602 209.1	102 13.4				
U.35 Welldowatered					
13 25 74.6 7.31 338	162 -				
Did well dewater? Yes (No.	Gallons actually evacuated: 15				
Sampling Date: 5/2/13 Sampling Time	e: 1325 Depth to Water: 25-55				
Sample I.D.: ≤-10	Laboratory: (Test America) Other				
Analyzed for: (TREE-G BTEX) MTBE TPH-D	Oxygenates (5) Other:				
EB I.D. (if applicable):	Duplicate I.D. (if applicable):				
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5) Other:				
D.O. (if req'd): Pre-purge:	mg/L Post-purge: mg/L				
O.R.P. (if req'd): Pre-purge:	mV Post-purge: mV				

BTS #: 13	0502-1	PCI		Site: 9709 3399					
Sampler: 8		-		Date: 5(z(13)					
Well I.D.:	5/2			Well Diameter: 2 3 @ 6 8					
Total Well I	Depth (TD)): 34.	્ ટ	Depth to Water (DTW): 26.48					
Depth to Fre	ee Product	•		Thickness of Free Product (feet):					
Referenced	to:	(PV)	Grade	D.O. M	leter (if	req'd):	YSI HACH		
DTW with 8	30% Recha	urge [(H	eight of Water	Colum	1×0.20)+DTW]: ユ゠	7-99		
	ailer Displacemen nersible		Waterra Peristaltic tion Pump		Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing			
1 Case Volume		ろ fied Volum	$= \frac{14.7}{\text{Calculated Vo}}$	_ Gals. lume	Well Diamete I" 2" 3"	er <u>Multiplier</u> <u>Well 1</u> 0.04 4" 0.16 6" 0.37 Other	Diameter Multiplier 0.65 1.47 radius² * 0.163		
Time	Temp (°F)	pH ¹.	Cond. (mS or #5)	1	oidity ΓUs)	Gals. Removed	Observations		
1118	66-6	6.23	542.8	95	3	4.9			
1119	663	665	577-1	21	.6	9-8			
was	664	6-61	536.8	6	82	14.7			
*									
					·				
Did well de	water?	Yes (No	Gallon	s actuall	y evacuated: Į	4.7		
Sampling D	ate: 5 2	h3	Sampling Time	e: \3	50	Depth to Wate	r: 26-60		
Sample I.D.	: 5-12			Labora	tory:	Test America	Other		
Analyzed fo	r: (TPH-G	BTEX)	MTBE TPH-D	Oxygena	ates (5)	Other:			
EB I.D. (if a	ipplicable)		@ Time	Duplic	ate I.D.	(if applicable):			
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:			
D.O. (if req'	d): Pr	e-purge:		$^{\mathrm{mg}}/_{\mathrm{L}}$	P	ost-purge:	mg/L		
O.R.P. (if re	q'd): Pr	e-purge:		mV	P	ost-purge:	mV		

BTS#: 13	0502-5	zhi		Site: 461 84 ST. OAKERAND, CA					
Sampler: (•			Date: 5/2/1					
Well I.D.:	5-13			Well Diameter: 2 3 4 6 8					
Total Well I	Depth (TD): 32	46	Depth to Wate	Depth to Water (DTW): つち. ンイ				
Depth to Fro	***************************************			Thickness of	Free Product (fee	et):			
Referenced	to:	PVC)	Grade	D.O. Meter (it	f req'd):	YSI _ HACH			
DTW with	80% Recha	arge [(He	eight of Water	Column x 0.20	0) + DTW]: 2	(88			
Purge Method:	Bailer Disposable Ba Positive Air D Electric Subm	Displacemen		Waterra Peristaltic tion Pump	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing			
5.3 (C) 1 Case Volume	Gals.) X Specif	3 fied Volume	X X	Gals. Gals. Substitute Well Diame 1" 2" 3"	eter Multiplier Well I 0.04 4" 0.16 6" 0.37 Othe	Diameter Multiplier 0.65 1.47 er radius² * 0.163			
Time	Temp (°F)	рН	Cond. (mS or AS)	Turbidity (NTUs)	Gals. Removed	Observations			
1240	73.3	6.57	1772	86	5.3				
1241	72,7	6.82	1222	126	10,6				
1242	71,9	6.74	1100	58	15.9				
		\$40°							
Did well de	water?	Yes 3	NO (0)	Gallons actua	lly evacuated:	15.9			
Sampling D	rate: 5 7	13	Sampling Time	e: 1250	Depth to Wate	r: 25 AZ			
Sample I.D.	:5-13			Laboratory:	Test America	Other			
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other: See	250W			
EB I.D. (if a	applicable)):	@ Time	Duplicate I.D	. (if applicable):				
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:				
D.O. (if req'	'd): Pr	re-purge:		mg/L	Post-purge:	mg/ _L			
O.R.P. (if re	eq'd): Pr	re-purge:		mV	Post-purge:	mV			

BTS #: 13	0502-p	7		Site: 97093399						
Sampler: P	<u> </u>			Date: 5/2	13					
Well I.D.:	3-14R		,	Well Diamete	er: 2 3 4)	6 8				
Total Well I	Depth (TD)):34.2	6	Depth to Wat	er (DTW): QUL	7				
Depth to Fre	ee Product				Free Product (fee					
Referenced	to:	PVŷ	Grade	D.O. Meter (if req'd): YSI HACH						
DTW with 8	30% Recha	irge [(H	eight of Water	Column x 0.2	0) + DTW]: L	.44				
	Bailer Disposable Ba Positive Air D Electric Subm	isplaceme	nt Extrac Other	Waterra Peristaltic etion Pump Well Dian	Sampling Method: Other: Well 0.04 4"	Disposable Bailer Extraction Port Dedicated Tubing				
Case Volume	Gals.) XSpecif	ied Volum	= Z es Calculated Vo	_Gals. 2"	0.16 6" 0.37 Othe	1.47				
Time	Temp (%F)	pН	Cond. (mS or (18))	Turbidity (NTUs)	Gals. Removed	Observations				
1058	657	6.81	624.4	138	6.4					
1100	well	deval	evel							
1330	GBA	679	403,7	101	***************************************	**				
		· · · · · · · · · · · · · · · · · · ·				*				
Did well dev	water?	(Yes)	No	Gallons actua	ally evacuated: 1					
Sampling D	ate: 5 z	u3	Sampling Time	e:1330	Depth to Wate	r: 24-60				
Sample I.D.	:5-148		·	Laboratory:		Other				
Analyzed fo	r: (TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:	a sa a				
EB I.D. (if a	pplicable)	•	. @ Time	Duplicate I.D	. (if applicable):					
Analyzed fo	r: TPH-G	BTEX	MTBĒ TPH-D	Oxygenates (5)	Other:					
D.O. (if req'	d): Pr	e-purge:		mg/L	Post-purge:	$^{mg}/_{\mathrm{L}}$				
O.R.P. (if re	q'd): Pr	e-purge:		mV	Post-purge:	mV				

BTS#: 130502-PC1	Site: 461 8th ST. OBNUAND, MA											
Sampler: Vill	Date: 5/2/	13										
Well I.D.: 5-17	Well Diameter	Well Diameter: (2) 3 4 6 8										
Total Well Depth (TD): 33.39	Depth to Water	r (DTW): 25	49									
Depth to Free Product:	Thickness of F	ree Product (fee	et):									
Referenced to: PVC Grade	D.O. Meter (if	req'd):	YSI HACH									
DTW with 80% Recharge [(Height of Wate	r Column x 0.20)) + DTW]: 2	7.07									
Purge Method: Bailer Disposable Bailer Positive Air Displacement Extra Electric Submersible Other	Waterra Peristaltic action Pump	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing									
Time Temp (°F) pH (mS or (S)	Turbidity (NTUs)	Gals. Removed	Observations									
1020 72/17.73 301	567	1.3										
(022 70.8 7.50 336	>1000	2.6										
104 69.87.49 331	2/200	3.9										
	7	S. S										
	4											
Did well dewater? Yes	Gallons actual	ly evacuated:	3.9									
Sampling Date: 5/2/12 Sampling Tir	ne: 1030	Depth to Wate	r: 25-52									
Sample I.D.: 5-17	Laboratory:	Test America	Other									
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5)	Other: Sec	Low									
EB I.D. (if applicable):	Duplicate I.D.	(if applicable):										
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5)	Other:										
D.O. (if req'd): Pre-purge:		ost-purge:	mg/ _L									
O.R.P. (if req'd): Pre-purge:	mV F	ost-purge:	mV									

BTS#: 13	=505-k	76.i		Site: 4	61 8h	1 5T, DAR	UND, GA
Sampler: 6	لمال			Date:	5/2		
Well I.D.:	5-18			Well D	iameter:	:(2) 3 4	6 8
Total Well I	Depth (TD)): 33.	.07	Depth 1	to Water	(DTW): 24	.95
Depth to Fre	ee Product	:		Thickn	ess of F	ree Product (fee	et):
Referenced	to:	WC/	Grade	D.O. M	leter (if	req'd):	YSI HACH
DTW with 8	30% Recha	irge [(H	eight of Water	Column	1 x 0.20)) + DTW]: 26	5.57
Purge Method:	Bailer Disposable Ba Positive Air D Electric Subm	Displaceme		Waterra Peristaltic tion Pump	Well Diamete	Sampling Method: Other:	
1. Case Volume	Gals.) XSpecia	S fied Volum	$_{\text{des}} = \frac{3.9}{\text{Calculated Vo}}$	_Gals. lume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Othe	0.65 1.47
Time	Temp (°F)	pН	Cond. (mS or as)	1	oidity ΓUs)	Gals. Removed	Observations
1035	68:6	7.08	2332	35	2	1.3	
1027	67,9	6.95	2254	79	B	2.6	
1039	67.9	631	2240	>	700	3,5	
					Annual Control of the	**	
Did well de	water?	Yes C	₩8	Gallon	s actuall	y evacuated:	3,9
Sampling D	ate: 5/1	113	Sampling Time	e: [6	145	Depth to Wate	r: 25,22
Sample I.D.	: <u>5-18</u>	\ .	· ·	Labora	tory:	Test America	Other
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ites (5)	Other: See	5200
EB I.D. (if a	applicable)	:	@ Time	Duplic	ate I.D.	(if applicable):	
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Öxygena	ites (5)	Other:	
D.O. (if req	d): Pr	e-purge:		$^{ m mg}\!/_{ m L}$	P	ost-purge:	mg/ _L
O.R.P. (if re	eq'd): Pr	re-purge:	Ÿ	mV	Р	ost-purge:	· mV

BTS #: 130502-PC1	Site: 97093	319	3
Sampler: PC	Date: 5 2 1		
Well I.D.: ≰-\9	Well Diameter	: 2 3 4	6 8
Total Well Depth (TD):34.46	Depth to Water	r (DTW):24.)	5
Depth to Free Product:	Thickness of F	ree Product (fee	et): 🐢
Referenced to: PVO Grade	D.O. Meter (if	req'd):	YSI HACH
DTW with 80% Recharge [(Height of Water	Column x 0.20)) + DTW]: 久&	2
Purge Method: Bailer Disposable Bailer Positive Air Displacement Extra Electric Submersible Other	-	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing
$\frac{\cancel{\cancel{L}} + \cancel{\cancel{L}} + $	Gals. Well Diameter 1" 2" 3"	n Multiplier Well I 0.04 4" 0.16 6" 0.37 Other	Diameter Multiplier 0.65 1.47 r radius² * 0.163
Time Temp (°F) pH Cond. (mS or as)	Turbidity (NTUs)	Gals. Removed	Observations
1110 65.3 665 650.9	175	6.7	
U.12 Well Denatured		-	-14° .
1340 665 678 530-7	160		
Did well dewater? (Yes) No	Gallons actuall	y evacuated:	2
Sampling Date: 5 2 W5 Sampling Tim	e: 1340	Depth to Water	r:44.20
Sample I.D.: 5-19	Laboratory:	Test America (Other
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5)	Other:	
EB I.D. (if applicable):	Duplicate I.D.	(if applicable):	
Analyzed for: трн-G втех мтве трн-D	Oxygenates (5)	Other:	
D.O. (if req'd): Pre-purge:	mg/L P	ost-purge:	$^{ m mg}/_{ m L}$
O.R.P. (if req'd): Pre-purge:	mV P	ost-purge:	mV

		******					- .			
BTS #: /3	30502-	brul_		Site: 4	61 St	4 ST. OAR	LAND, US			
Sampler: (1	5/2/1					
Well I.D.:	5-20			Well D	Well Diameter: 2 3 4 6 8					
Total Well	Depth (TD): 3 4 -	-85	Depth t	to Water	(DTW): 24	.00			
Depth to Fr	ee Product	: · · ·		Thickn	ess of F	ree Product (fee	et):			
Referenced	to:	PVO	Grade	D.O. M	leter (if	req'd):	YSI HACH			
DTW with	80% Recha	arge [(H	eight of Water			+DTW]: 26	57			
Purge Method:	Bailer Disposable Be Positive Air I	ailer Displaceme		Waterra Peristaltic etion Pump		Sampling Method: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing			
67 (1 Case Volume	Gals.) XSpeci	3 fied Volum	Well Diamete 1" 2" 3"	m Multiplier Well 1 0.04 4" 0.16 6" 0.37 Othe	Diameter Multiplier 0.65 1.47 r radius ² * 0.163					
Time	Temp (°F)	pН	Cond. (mS or atS)	1	oidity ΓUs)	Gals. Removed	Observations			
1226	73.0	7,23	S002	126 6.7						
1228	72.1	84.4	1999	33 (3.4						
lue.	LL 96	w A	TEREO	e 1	7 GA	LS				
			_							
1335	73.7	666	-1283	87)	-				
Did well de	water?	Yes	No)	Gallon	s actuall	y evacuated:	67			
Sampling D	Date: 5 7	-113	Sampling Tim	e: 3	335	Depth to Wate	r: 24.50			
Sample I.D	·· 5-40			Labora	tory:	Test America	Other			
Analyzed for	or: TPH-G	BTEX	МТВЕ ТРН-D	Oxygena	ates (5)	Other: See	Saw			
EB I.D. (if	applicable)):	@ Time	Duplic	ate I.D. ((if applicable):				
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:				
D.O. (if req	'd): Pi	re-purge:	North Charles and	^{mg} /L Post-purge:			mg/ _I			
O.R.P. (if re	eq'd): Pi	e-purge:		mV	P	ost-purge:	mV			

BTS #: 13	0502-3	<u>'C </u>		Site: 4	61 8tr	1 57. 04	k Lan	20.1A
BTS #: 13	M	******************		Date:	5/2/	3		
Well I.D.:				Well D	iameter:	: 2 3	<u>4</u>)	6 8
Total Well I	Depth (TD	1):26-	(e0	Depth	to Water	r (DTW): ¿	〕 〕 5 <i>1</i>	16
Depth to Fre		-		1		ree Produc		
Referenced	to:	PVC	Grade		leter (if:			YSI HACH
DTW with 8	30% Recha	arge [(H	leight of Water	Columi	1 x 0.20)) + DTW]:	2.	5.70
Purge Method:	Bailer Disposable Be Positive Air E Electric Subm	Displaceme:		Waterra Peristaltic tion Pump			Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing
O.7 (C	Gals.) XSpecif	5 fied Volum		Gals.	1 ⁿ 2 ⁿ 3 ⁿ	0.04 0.16 0.37	Well D 4" 6" Other	0.65 1.47
Time	Temp (°F)	17.	Cond. (mS or fis)	li .	bidity ΓUs)	Gals. Reme	oved	Observations
1056	68.3	2.86	3056	>,	୭୬୦ 🏃	0.7		white
WELL	DEW	ATTO	eño e	0.7) 6AC	5		
					······			
1300	74.4	6.85	2937	>10	00	Processing and the second		white
Did well dev	water?	X68	No	Gallon	s actuall	y evacuate	d:	0.7
Sampling D	ate: 5/2	113	Sampling Time	e: 13	00	Depth to V	Water	: 25.62
Sample I.D.	: 5-21A	-	**************************************	Labora	tory:	Test Americ	1 C	Other
Analyzed fo	or: TPH-G	BTEX		Oxygena	ates (5)	Other: <	50	2 Sau
EB I.D. (if a	pplicable)	1:	@ Time	Duplic	ate I.D. ((if applicab	ole):	*
Analyzed fo	or: TPH-G	BTEX	МТВЕ ТРН-D	Oxygena	ites (5)	Other:		
D.O. (if req'	d): Pr	re-purge:		mg/ _L	P	ost-purge:		mg/L
O.R.P. (if re	q'd): Pr	e-purge:		mV	P	ost-purge:		mV

I									
BTS#: \	30502	PCI		Site: 6	709	3399			
Sampler: R				Date:	5/zli	5			
Well I.D.:	5-2-15			Well Diameter: 2 3 4 6 8					
Total Well 1	Depth (TD): 39,U	(8	Depth	to Wate	r (DTW.):25.	59		
Depth to Fro	ee Product	•		Thickn	ess of F	ree Product (fe	et):		
Referenced	to:	(PAS	Grade	D.O. M	leter (if	req'd):	YSI HACH		
DTW with 8	80% Recha	arge [(H	leight of Water	Colum	1×0.20) + DTW]: Lg	.37		
Purge Method:	Bailer Disposable Bailer Positive Air I Electric Subm	ailer Displaceme		Waterra Peristaltic ction Pump		Sampling Method Other	Extraction Port Dedicated Tubing		
1 Case Volume		3 fied Volum	$= \frac{27}{\text{Calculated Vo}}$	_ Gals. llume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Othe	0.65 1.47		
Time	Temp (°F)	pН	Cond. (mS or AS)	1	bidity ΓUs)	Gals. Removed	Observations		
Loug	65-6	6-96	1679	33	57	9			
LOUS	he	ldeur	tered						
1310	68,6	623	6873	36	₇ થ(Share			
Did well de	water?	(es)	No	Gallon	s actuall	ly evacuated: ¿	P. 5		
Sampling D	ate: 5 7	13	Sampling Time	e: [3[0	Depth to Wate	r: 25.50		
Sample I.D.	: 5-810			Labora	tory:	Test America	Other		
Analyzed fo	r: (TPH-G	BTEX	·	Oxygena	ates (5)	Other:			
EB I.D. (if a	pplicable)	*	@ Time	Duplic	ate I.D.	(if applicable):			
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other:			
D.O. (if req'	d): Pr	e-purge:		$^{ m mg}/_{ m L}$	_{,:} P	ost-purge;	mg/L		
O.R.P. (if re	eq'd): Pr	e-purge:		mV	P	ost-purge:	mV		

	·····	·		Ţ	····					
BTS #: 13	30502-	PU		Site: 4	618	th 57. 0	MUAND, US			
Sampler: ¿	vio			Date: 5/2/13						
Well I.D.:	5-22A			Well Diameter: 2 3 4 6 8						
Total Well	Depth (TD): 24	81.	Depth	to Wate	r (DTW): 24.	71			
Depth to Fr	ee Product			Thickn	ess of F	ree Product (fe	et):			
Referenced	to:	ævc)	Grade	D.O. M	leter (if	req'd):	YSI HACH			
DTW with	80% Rech	arge [(H	leight of Water	Colum	1×0.20) + DTW]: 2	5.10			
Purge Method;	A STATE OF THE PARTY OF THE PAR	ailer Displaceme		Waterra Peristaltic tion Pump	Well Diamete	Sampling Method	Bailer Disposable Bailer Extraction Port Dedicated Tubing			
1 Case Volume		S fied Volum	$\frac{1}{1} = \frac{3}{\text{Calculated Vo}}$	_Gals. lume	1" 2" 3"	0.04 4° 0.16 6° 0.37 Othe	0.65 1.47			
Time 1122	Temp (°F)	pН	Cond. (mS or as)	(N)	oidity (Us)	Gals. Removed	Observations			
		6.01	27.52		1000	1.3	solor, white			
WE	<u> </u>	EWA	TERED	@	<u>/.3</u>	GALS				
1310	76,6	5.85	24370	<u></u>	000		gray/brown odor			
Did well de	water?	(Yes)	No	Gallons	actuall	y evacuated:	1.3			
Sampling D	ate: 5/2	UB	Sampling Time			Depth to Water				
Sample I.D.	5-IIA			Labora	tory:	Test America	Other			
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	tes (5)	Other: See	40w			
EB I.D. (if a	pplicable)	•	@ . Time	Duplica	ite I.D. (if applicable):				
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	tes (5)	Other:				
D.O. (if req'	d): Pr	e-purge:		$^{ m mg}/_{ m L}$	Po	ost-purge:	mg/L			
O.R.P. (if re	q'd): Pr	e-purge:		mV	Po	ost-purge;	mV			
				- Company Spinish China						

BTS#: (3	10502-1)در ا		Site:	1709	33 <u>4</u> 9					
Sampler: Possible Sampler: Possible Sampler: Possible Sampler: Positive Air Displacement Selectric Submersible Other 9.7 (Gals.) X 3 = 99-100 Cond. Time Temp (°F) pH (mS or ps) 1030 648 620 449-5 1030 648 620 640-6 1030 648 640-6 1030 648 64				Date:	5/21	15					
Well I.D.:			Well D	iameter	: 2 3 (4)	6 8					
Total Well I	Depth (TD): 3 <i>१.6</i>	,5	Depth to Water (DTW): 24-68							
Depth to Fre	ee Product			Thickness of Free Product (feet):							
Referenced	to:	€VĈ)	Grade	D.O. M	leter (if	req'd):	YSI	НАСН			
DTW with 8	30% Recha	arge [(H	leight of Water	Colum	1×0.20) + DTW]: 2	4.67				
Purge Method:	Disposable Ba Positive Air I	Displaceme	nt Extrac	Peristaltic		Othe	Disp Ex Ded r:	oosable Bailer traction Port			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$											
Time	Temp (°F)	pН		E .	-	Gals. Removed	l Ob	servations			
1030	64.8	620	449.5	9	5	9.7					
1032	654	5/66	690.6	33	"3	19.4					
1296032	well	Lewest	erel								
1250	70-8	7-04	7808	23							
Did well de	water?	Yes	No	Gallon	s actuall	y evacuated: g	205				
Sampling D	The remp (°F) ph (ms or gs) (NTUs) Gals. Removed Observations Contact C										
Sample I.D.	Well Diameter: 2 3 (4) 6 8 otal Well Depth (TD): 3 ? 6 5 Depth to Water (DTW): 2 4 6 8 repth to Free Product: eferenced to: Orade D.O. Meter (if req'd): Thickness of Free Product (feet): eferenced to: Orade D.O. Meter (if req'd): Thickness of Free Product (feet): eferenced to: Orade D.O. Meter (if req'd): Thickness of Free Product (feet): eferenced to: Orade D.O. Meter (if req'd): Thickness of Free Product (feet): eferenced to: Orade D.O. Meter (if req'd): YSI HACH Waterra Peristalic Extraction Pump Other: Ot										
Analyzed fo	r: TPH-G	втех	MTBE, TPH-D (Oxygena	ites (5)	Other:					
EB I.D. (if a	pplicable)	•		Duplic	ate I.D. ((if applicable)	•				
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygena	ites (5)	Other:		-			
D.O. (if req'	d): Pr	e-purge:		$^{ m mg}\!/_{ m L}$	P	ost-purge:		mg/L			
O.R.P. (if re	eq'd): Pr	e-purge:		mV	P	ost-purge:		mV			

BTS#:	130502	-PCY		Site: 4	7093	319				
Sampler:	2			1	5/2/1	•	,			
Well I.D.: ع	5-23			Well Diameter: 2 3 4 6 8						
Total Well 1	Depth (TD): 35 T	34.37	Depth 1	Depth to Water (DTW): 25-04					
Depth to Fro	ee Product	* •		Thickn	ess of F	ree Produc	t (fee	t):		
Referenced	to:	(PVC)	Grade	D.O. M	leter (if	req'd):		YSI HACH		
DTW with 8	80% Recha	arge [(H	eight of Water	Column	1×0.20) + DTW]:	21	e-91		
Purge Method:	Bailer Disposable Ba Positive Air D Lelectric Subm)isplaceme	nt Extrac Other	Waterra Peristaltic ction Pump		Sampling M	lethod:	Bailer Disposable Bailer Extraction Port Dedicated Tubing		
1 Case Volume	Jais. J 11.	3 fied Volum	$\frac{1}{100} = \frac{18.3}{\text{Calculated Vo}}$	_ Gals.	Well Diamete 1" 2" 3"	0.04 0.16 0.37	Well E 4" 6" Other	Viameter Multiplier 0.65 1.47 radius ² * 0.163		
Time	Temp (°F)	pН	Cond. (mS or (aS)	1	oidity (Us)	Gals. Rem	oved	Observations		
1220	696	671	669.7	2=	F3	61				
your	well	Leval	erel							
1410	"PLIFE	669	599.7	4	6					
Did well de	water?	Yes	No	Gallon	s actuall	ly evacuate	:d: [
Sampling D	ate: 5/2	45_	Sampling Time	e: [Ц(9	Depth to	Water	: 25.30		
Sample I.D.	: 5-23		***************************************	Labora	tory:	Test Americ	a) (Other		
Analyzed for	or: PH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:	-			
EB I.D. (if a	applicable)	• •	@ Time	Duplic	ate I.D.	(if applical	ole):			
Analyzed for	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ites (5)	Other:				
D.O. (if req	'd): Pr	e-purge:		mg/ _L	P	ost-purge:		mg/ _L		
O.R.P. (if re	eq'd): Pr	e-purge:		mV	P	ost-purge:		mV		

INCIDENT#	9709	339	9
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DATE: 5/2/13

ADDRESS 46 8 St.

CITY & STATE Oakland, (A

Well ID						Well La	beled /		Cap				and a street of the second	Pad /	Note Repairs Made Detailed Explanation of Maintenance Recommended	W	os of ell	Repair Date and PM
	Manway C	Cover, 7	Type, Co	ondition	& Size	Pair Prop	nted erly*		oper) lition	well t.	ock Cor	ioition		face dition	and Performed	Con	lition	Initials
5-4	Standpipe	(lus)	<u></u>	Р	Size (Inch)	Ø	N	(3)	R	©	R	NL	©	þ		Υ		
5-4	Standpipe	Flush	©	£	Size (Inch)	9	N	6	R	<u>(6)</u>	R	NL	©	Р	well is ~5'below grade in	Y	(N)	
	Standpipe	Flush	G	(P)	Size (inch)	(P)	N	©	R	<u>©</u>	R	NL.	©	Р	Tapan grassin	Y		
5-8	Standpipe (F	Flush)	©	þ	Size (inch)	(e)	N	©	R	6	R	NL	6	P		Y	(1)	
5-9	Standpipe	Flusity	<u></u>	Þ	Size (Inch)	(S)	N	<u>©</u>	R	6	R	NL	6	Р		Υ	0	
5~\0	Standpipe (Flush)	0	P	Size (inch)	<u>(D)</u>	N	6	R	0	R	NL	<u>©</u>	ρ		Y	(E)	
カーレン	Standpipe (F	Flush	©	Р	Size (inch)	(2)	N	(3)	R	0	R	NL	G	©	Apron evacked	Y	(P)	
5-13	Standpipe ्	TOSh	®	Р	Size (inch)	0	N	©	R	٨	R	NL.	67	Р		Y	(P)	
5-14R	Standpipe	Elush	©	Р	Size (inch)	(S)	N	6	R	6	R	NL.	Ø	Р		Υ.	(D)	
5-17	Standpipa	Flusb	©	Р	Size (inch)	®	N	@	R	<u></u>	R	NL	0	Р		Υ	@	
5-18	Standpipe	Flush	ල	Р	Size (inch)	0	N	(G)	R	B	R	NL	<u>(6)</u>	Р		Y	(B)	
·					TOTA	L#CAP	S REPLA	ACED =	0			= TOTA	L#OFL	OCKS R	EPLACED			
	Soil Boring Pate and Monitoring		G	Р	(N/B)	If P	OOR, Bor	ings/Well	IDs or Lo	cation De	scription					Y	N	
	i Compound Ty oxes that apply)		Condi	tion of Er	nclosure		on of Are Enclosur		Com	pound Sec	urity	Emerg	ency Coni Visible	act info	Cleaning / Repairs Recommended and Conducted	Additional and a	tos of dition	Repair Date and PM Initials
NA Buildin Building w/ Fer	ng nce Comp.	K	G	P	N/A	G	P	N/A	G	p	N/A	Y	N	N/A		Y	N	
Fenced Con Traile			S-890 p-1393	nii daa		\$450 A 510 GO				.	2800						tos of	Date Drums
Number of Drums On-site	Does the La Source of I				led Correct! /riting Legit		Dn	um Condil	tion	Confirm Relat Enviror	ed to		s Located less interf		Detailed Explanation of Any Issues Resolved	D	um difion	Removed from Site and PM Initials
	Υ	N ((NIA)	Y	N	N/A	G	р	N/A	Y	N	Y	N	N/A		Y	N	ad apadition

G = Good (Acceptable) R = Replaced

Note: All repairs other than locks and grippers require Shell PM approval prior to repair,

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Print or type Name of Field Personnel & Consultant Company

P = Poor (needs attention) NL = No Lock Required

 ⁼ Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.
 Version 2.4, March 2008

DATE:

ADDRESS 461 84 31

CITY & STATE COAL AND

		03 KG (9/53)				Observ	ations L	pon Arri	val						Note Répairs Made	Pho	os of	Repair Date
Well ID	Manwa	y Cover,	Type, Co	ondition	& Size	Well La Pali	ited	Well (Grip	per)	Well L	ock Cor	idition	Sur	Pad / face	Detailed Explanation of Maintenance Recommended and Performed	W	ell dition	and PM Initials
			<u>. د</u> مر		Size (inch)	Prop	erly*	Conc	lition					lition				
5-19	Standpipe	Elusti	<u>©</u>	P	12	(4)	N	©	R	6	R	NL	0	P		Y	(1)	
5-20	Standpipe	Flush	<u>(6)</u>	Р	Size (Inch)	(E)	N	6	R	6	R	NL.	<u></u>	P		Y	(10)	
5-21A	Standpipe	Flus P	6	Р	Size (Inch)	9	N	<u>(a)</u>	R	0	R	NL	®	P		Y	®	
5-21B	Standpipe	Flush	<u>@</u>	p	Size (inch)	0	N	(6)	R	@	R	NL.	(B)	Р		Υ	(B)	
5-224	Standpipe	(Tush	(G)	Р	Size (inch)	③	N	(6)	R	(R	NL	6	P		Y	(E)	
5-228	Standpipe	Flush	6	P	Size (inch)	8	N	6	R	@	R	NL	6	P		Y	<u>(A)</u>	
5-23	Standpipe	Flush	· (3)	Р	Size (inch)	0	N	6	R	0	R	NL	(3)	Р		Y	N	
	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	P	·	Y	N	·
	Standpipe	Flush	G	Р	Size (inch)	Υ	N	G	R	G	R	NL	G	P		Υ.	. N	
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL.	G	P		Y	N	
	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
	-1				TOTA	L#CAP	S REPLA	CED =				= TOTA	L#OFL	OCKS RI	EPLACED			
Condition of Abando	Soil Boring P oned Monitori		G	p	(N/A)	lf.P	OOR, Bor	ings/Well	IDs or Lo	cation De	scription:					Y	N	
	n Compound oxes that app		Condi	ition of En	nclosure		on of Are Enclosure		Com	pound Sec	urity	Emerg	ency Cont Visible	act Info	Cleaning / Repairs Recommended and Conducted.		los of dition	Repair Date and PM Initials
NA Building W/ Fe Fenced Cop	ng nce Comp. mpound	<i>K</i>	G	P	N/A	G	P	N/A	G	Р	N/A	Y	N	N/A		Y	N	aga, mga kati Sumula Tibib Kunda waka k
Number of Drums On-site	Does the	Label Rev of the Con			led Correcti Iriting Legil		Dn	ım Condit	lon	Confine Relat Enviror	ed to		s Located ess Interf		Detailed Explanation of Any Issues Resolved	D	tos of um dition	Date Drums Romoved from Site and PM Initials
	Υ	N	(N/A	Y	N	N/A	G	P	N/A	. Y	N	Y	Ν.	N/A		Υ	N	

G = Good (Acceptable) R = Replaced

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (uniess otherwise noted above).

Petelorush William Vorg BTS
Print or type Name of Field Personnel & Consultant Company

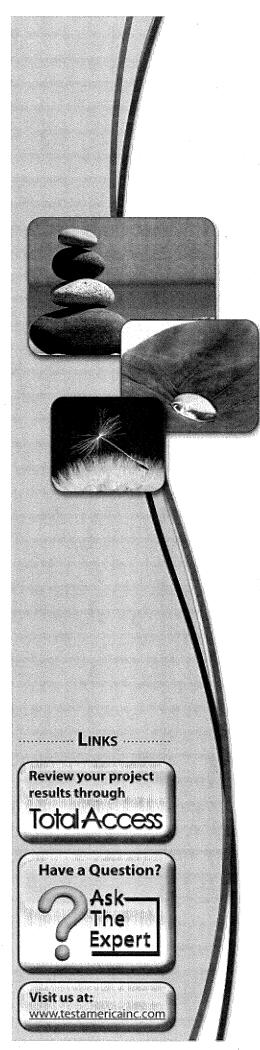
P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippors require Shell PM approval prior to repair.

^{• =} Groundwater monitoring well covers must be painted and labeted in accordance with applicable regulations. Version 2.4, March 2008

APPENDIX B

TESTAMERICA LABORATORIES, INC. -ANALYTICAL REPORTS



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

TestAmerica Job ID: 440-36305-1

Client Project/Site: 461 8th St., Oakland, CA

For:

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

Attn: Peter Schaefer

Authorized for release by:

2/11/2013 4:31:17 PM Kathleen Robb

Project Manager II

kathleen.robb@testamericainc.com

Designee for

Philip Sanelle

Project Manager I

philip.sanelle@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative	4
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Receipt Checklists	14

Sample Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-36305-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-36305-1	S-5	Water	01/24/13 09:05	01/26/13 10:15
440-36305-2	S-6	Water	01/24/13 09:35	01/26/13 10:15

Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-36305-1

Job ID: 440-36305-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-36305-1

Comments

No additional comments.

Receipt

The samples were received on 1/26/2013 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 4.2° C.

GC/MS VOA

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-36305-1

Client Sample ID: S-5

Lab Sample ID: 440-36305-1

Date Collected: 01/24/13 09:05 Date Received: 01/26/13 10:15 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Volatile Fuel Hydrocarbons	29000		1000		ug/L			02/02/13 19:11	2
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Dibromofluoromethane (Surr)	98		80 - 120			-		02/02/13 19:11	2
4-Bromofluorobenzene (Surr)	111		80 - 120					02/02/13 19:11	2
Toluene-d8 (Surr)	113		80 - 120					02/02/13 19:11	2
Method: 8260B - Volatile Organi	c Compounds (GC/MS)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	910		10		ug/L			02/02/13 19:11	2
Ethylbenzene	1200		10		ug/L			02/02/13 19:11	2
Toluene	1700		10		ug/L			02/02/13 19:11	2
Xylenes, Total	2700		20		ug/L			02/02/13 19:11	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		80 - 120			-		02/02/13 19:11	2
Dibromofluoromethane (Surr)	98		80 - 120					02/02/13 19:11	2
Toluene-d8 (Surr)	113		80 - 120					02/02/13 19:11	2
Client Sample ID: S-6							Lab San	ple ID: 440-3	6305-2
ate Collected: 01/24/13 09:35								-	k: Wate
ate Received: 01/26/13 10:15									

Method: 8260B/CA_LUFTMS Analyte	• .	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	29000		5000		ug/L			02/02/13 19:38	100
(C4-C12)	•								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		80 - 120			_		02/02/13 19:38	100
4-Bromofluorobenzene (Surr)	108		80 - 120					02/02/13 19:38	100
Toluene-d8 (Surr)	110		80 - 120					02/02/13 19:38	100
Method: 8260B - Volatile Orga	anic Compounds (GC/MS)							
Method: 8260B - Volatile Orga	anic Compounds (GC/MS)							
Analyte	Result	GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Benzene	Result 9100		50	MDL	ug/L	D	Prepared	02/02/13 19:38	100
Analyte	Result		50	MDL		<u>D</u> _	Prepared		
Analyte Benzene	Result 9100		50	MDL	ug/L	D -	Prepared	02/02/13 19:38	100
Analyte Benzene Ethylbenzene	9100 950		50	MDL	ug/L ug/L	<u>D</u>	Prepared	02/02/13 19:38 02/02/13 19:38	100
Analyte Benzene Ethylbenzene Toluene	Result 9100 950 2500	Qualifier	50 50 50	MDL	ug/L ug/L ug/L	<u>D</u>	Prepared Prepared	02/02/13 19:38 02/02/13 19:38 02/02/13 19:38	100 100 100
Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Result 9100 950 2500 2600	Qualifier	50 50 50 100	MDL	ug/L ug/L ug/L	<u>D</u> -		02/02/13 19:38 02/02/13 19:38 02/02/13 19:38 02/02/13 19:38	100 100 100 100
Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Result 9100 950 2500 2600 %Recovery	Qualifier	50 50 50 100 <i>Limits</i>	MDL	ug/L ug/L ug/L	<u>D</u> -		02/02/13 19:38 02/02/13 19:38 02/02/13 19:38 02/02/13 19:38 <i>Analyzed</i>	100 100 100 100 Dil Fac

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-36305-1

Client Sample ID: S-5

Lab Sample ID: 440-36305-1

Date Collected: 01/24/13 09:05

Matrix: Water

Date Received: 01/26/13 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	82436	02/02/13 19:11	NS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		20	10 mL	10 mL	82437	02/02/13 19:11	NS	TAL IRV

Client Sample ID: S-6

Lab Sample ID: 440-36305-2

Date Collected: 01/24/13 09:35

Matrix: Water

Date Received: 01/26/13 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	82436	02/02/13 19:38	NS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		100	10 mL	10 mL	82437	02/02/13 19:38	NS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TestAmerica Job ID: 440-36305-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-82436/4 Matrix: Water Analysis Batch: 82436							Client Sa	ample ID: Metho Prep Type: T	
•	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			02/02/13 11:06	1
Ethylbenzene	ND		0.50		ug/L			02/02/13 11:06	1
Toluene	ND		0.50		ug/L			02/02/13 11:06	1
Xylenes, Total	ND		1.0		ug/L			02/02/13 11:06	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120					02/02/13 11:06	1
Dibromofluoromethane (Surr)	107		80 - 120	*				02/02/13 11:06	1
Toluene-d8 (Surr)	107		80 - 120					02/02/13 11:06	1

Lab Sample ID: LCS 440-82436/5

Matrix: Water

Analysis Batch: 82436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

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120
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125
. 120

•	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	115		80 - 120

Lab Sample ID: 440-36424-A-4 MS

Matrix: Water

Analysis Batch: 82436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

7 mary old Datom G2 100	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		25.0	24.4		ug/L		98	65 - 125	
Ethylbenzene	ND		25.0	23.1		ug/L		93	65 - 130	
m,p-Xylene	ND		50.0	49.8		ug/L		100	65 ₋ 130	
o-Xylene	ND		25.0	25.3		ug/L		101	65 - 125	
Toluene	ND		25.0	25.2		ug/L		101	70 - 125	
	MS	MS								

	MS	MS			
Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	104		80 - 120		
Dibromofluoromethane (Surr)	96		80 _ 120		
Toluene-d8 (Surr)	113		80 _ 120		

TestAmerica Job ID: 440-36305-1

Client Sample ID: Lab Control Sample

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-36424-A Matrix: Water									: Matrix Sp Prep T	ype: To	
Analysis Batch: 82436									i icp i	ypc. 10	
•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPE
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	ND		25.0	26.5		ug/L		106	65 - 125	8	20
Ethylbenzene	ND		25.0	24.6		ug/L		99	65 _ 130	6	20
m,p-Xylene	ND		50.0	52.5		ug/L		105	65 _ 130	5	、 25
o-Xylene	ND		25.0	27.0		ug/L		108	65 - 125	6	20
Toluene	ND		25.0	27.2		ug/L		109	70 - 125	8	20
,	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		80 - 120								
Dibromofluoromethane (Surr)	101		80 - 120								
Toluene-d8 (Surr)	112		80 - 120								

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-82437/4 Matrix: Water Analysis Batch: 82437							Client Sa	ample ID: Metho Prep Type: 1	
• · · · ·	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	. ND		50		ug/L			02/02/13 11:06	1
	MB	MB ,							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 _ 120			_		02/02/13 11:06	1
4-Bromofluorobenzene (Surr)	102		80 - 120					02/02/13 11:06	1
Toluene-d8 (Surr)	107		80 - 120					02/02/13 11:06	1
-									

Matrix: Water							Prep 1	Type: Total/NA	
Analysis Batch: 82437	•								
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Volatile Fuel Hydrocarbons	500	560		ug/L		112	55 _ 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120
Toluene-d8 (Surr)	117		80 - 120

Lab Sample ID: LCS 440-82437/6

(C4-C12)

Lab Sample ID: 440-36424-A-	4 MS							Client	Sample II	ን: Matrix	Spike
Matrix: Water									Prep	Type: To	tal/NA
Analysis Batch: 82437											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Volatile Fuel Hydrocarbons	ND		1730	1450		ug/L		84	50 - 145		
(CA-C12)											

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-36305-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-36424-A-4 MS

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 82437

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Toluene-d8 (Surr)	113		80 - 120

Lab Sample ID: 440-36424-A-4 MSD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 82437

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Volatile Fuel Hydrocarbons	ND		1730	1610		ug/L		94	50 - 145	11	20
(C4-C12)											•

MSD MSD Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 101 80 - 120 80 - 120 4-Bromofluorobenzene (Surr) 106 Toluene-d8 (Surr) 112 80 - 120

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-36305-1

GC/MS VOA

Analysis Batch: 82436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-36305-1	S-5	Total/NA	Water	8260B	
440-36305-2	S-6	Total/NA	Water	8260B	
440-36424-A-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-36424-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-82436/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-82436/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 82437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36305-1	S-5	Total/NA	Water	8260B/CA_LUFT	
				MS	
140-36305-2	S-6	Total/NA	Water	8260B/CA_LUFT	
				MS	
40-36424-A-4 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
				MS	
40-36424-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT	
	-		•	MS	
CS 440-82437/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
				MS	
B 440-82437/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				MS	

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-36305-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
‡	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND .	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.

Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-36305-1

Laboratory: TestAmerica Irvine
All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-13
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9 .	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	02-28-13
Hawaii	State Program	9	N/A	02-28-13
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	02-28-13
Northern Mariana Islands	State Program	9	MP0002	02-28-13
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

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10 Jake		to Shell.Lab.Billing@		., <u>.</u> , <u>.,</u> ., .			Matrix (Codes Irinking	-WG (ground r source	water), e), W (Ti	WS (suri	ace water) mp Blank)	deagn,	xtracta	อ์ เ	BTEX + MTBE (8260B)	MTBE + TBA (8:	ETBE) 8260B	Single Compound:	(808)	£	60B)	1015B)									
0	:		SAMPLE ID			}	×			PRESER	SVITAV]	- 02 22	0,0	0979	E	E 10	8260		A (82	260E	1 (82	100									
age 13 013		PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	HOL	LINO3	H2SO4	NONE	OTHER	NO, OF CONT.	TPH-GRO,	TPH-DRO, Ext	PIEX	BTEX 4	BTEX 4	ETBE) 8260B	Single	1,2 DCA (8260B)	EDB (8260B)	Ethanof (8260B)	Methanol (8015B)								Container PID Rea or Laboratory No	
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Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-36305-1

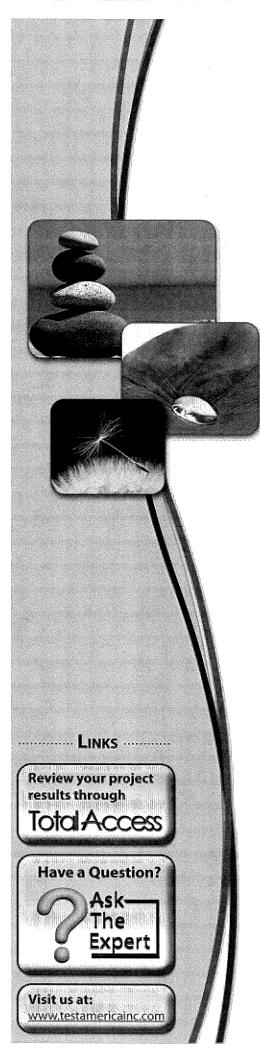
Login Number: 36305

List Number: 1

Creator: Chavez, Elizabeth

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	Trụe	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	William Wong
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

TestAmerica Job ID: 440-45487-1

Client Project/Site: 461 8th St., Oakland, CA

For: Conestoga-Rovers & Associates, Inc.

5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer

Philip Sande

Authorized for release by: 5/20/2013 3:00:29 PM

Philip Sanelle, Project Manager I philip.sanelle@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Chain of Custody	32
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Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-45487-1	S-4	Ground Water	05/02/13 10:25	05/04/13 10:30
440-45487-2	S-5	Ground Water	05/02/13 09:42	05/04/13 10:30
440-45487-3	S-6	Ground Water	05/02/13 08:50	05/04/13 10:30
440-45487-4	S-8	Ground Water	05/02/13 13:00	05/04/13 10:30
440-45487-5	S-9	Ground Water	05/02/13 14:00	05/04/13 10:30
440-45487-6	S-10	Ground Water	05/02/13 13:25	05/04/13 10:30
440-45487-7	S-12	Ground Water	05/02/13 13:50	05/04/13 10:30
440-45487-8	S-13	Ground Water	05/02/13 12:50	05/04/13 10:30
440-45487-9	.S-14R	Ground Water	05/02/13 13:30	05/04/13 10:30
440-45487-10	S-17	Ground Water	05/02/13 10:30	05/04/13 10:30
440-45487-11	S-18	Ground Water	05/02/13 10:45	05/04/13 10:30
440-45487-12	S-19	Ground Water	05/02/13 13:40	05/04/13 10:30
440-45487-13	S-20	Ground Water	05/02/13 13:35	05/04/13 10:30
440-45487-14	S-21A	Ground Water	05/02/13 13:00	05/04/13 10:30
440-45487-15	S-21B	Ground Water	05/02/13 13:10	05/04/13 10:30
440-45487-16	S-22A	Ground Water	05/02/13 13:10	05/04/13 10:30
440-45487-17	S-22B	Ground Water	05/02/13 12:50	05/04/13 10:30
440-45487-18	S-23	Ground Water	05/02/13 14:10	05/04/13 10:30

Case Narrative

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Job ID: 440-45487-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-45487-1

Comments

No additional comments.

Receipt

The samples were received on 5/4/2013 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 0.9° C, 1.1° C, 1.7° C, 2.1° C, 2.2° C, 2.8° C, 3.5° C, 3.8° C and 5.0° C.

GC/MS VOA

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-4

Date Collected: 05/02/13 10:25 Date Received: 05/04/13 10:30 Lab Sample ID: 440-45487-1

Analyte	Result	Qualifier	RL	MDL.	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	55		50		ug/L			05/09/13 00:06	1
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96	1	80 - 120					05/09/13 00:06	1
4-Bromofluorobenzene (Surr)	103	1	80 - 120					05/09/13 00:06	1
Toluene-d8 (Surr)	104		80 - 120		•			05/09/13 00:06	1
Method: 8260B - Volatile Organic	Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/09/13 00:06	1
Ethylbenzene	ND		0.50		ug/L			05/09/13 00:06	1
Toluene	ND		0.50		ug/L			05/09/13 00:06	1
Xylenes, Total	ND		1.0		ug/L			05/09/13 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120			-		05/09/13 00:06	1
Dibromofluoromethane (Surr)	96		80 - 120					05/09/13 00:06	1
Toluene-d8 (Surr)	104		80 - 120					05/09/13 00:06	1
Client Sample ID: S-5							Lab San	ple ID: 440-4	5487-2
ate Collected: 05/02/13 09:42 ate Received: 05/04/13 10:30		•						Matrix: Groun	d Water
Method: 8260B/CA_LUFTMS - Vo	latile Organic	Compound	s by GC/MS						
Analyte	_	Qualifier	RL	MDL.	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	35000	*	1300		ug/L			05/09/13 13:15	25

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120			_		05/09/13 13:15	25
4-Bromofluorobenzene (Surr)	103		80 - 120					05/09/13 13:15	25
Toluene-d8 (Surr)	105		80 - 120			•		05/09/13 13:15	25
- Method: 8260B - Volatile Organi	ic Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	650		13		ug/L			05/09/13 13:15	25
Ethylbenzene	1400		13		ug/L			05/09/13 13:15	25
Toluene	1500		13		ug/L			05/09/13 13:15	25
Xylenes, Total	4500		25		ug/L			05/09/13 13:15	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		•	-		05/09/13 13:15	25
Dibromofluoromethane (Surr)	97		80 - 120					05/09/13 13:15	25
Toluene-d8 (Surr)	105		80 - 120					05/09/13 13:15	25

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Result Qualifier

10000

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-6

Volatile Fuel Hydrocarbons

Date Collected: 05/02/13 08:50

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-3

Analyzed

05/09/13 13:45

Prepared

Matrix: Ground Water

Dil Fac

20

(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120			-		05/09/13 13:45	20
4-Bromofluorobenzene (Surr)	102		80 - 120					05/09/13 13:45	20
Toluene-d8 (Surr)	104		80 - 120					05/09/13 13:45	20
- Method: 8260B - Volatile Orga	nic Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1800		10		ug/L			05/09/13 13:45	20
Ethylbenzene	430		10		ug/L			05/09/13 13:45	20
Toluene	1100		10		ug/L			05/09/13 13:45	20
Xylenes, Total	1100		20		ug/L			05/09/13 13:45	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	. 102		80 - 120			-		05/09/13 13:45	20
Dibromofluoromethane (Surr)	96		80 _ 120					05/09/13 13:45	20
Toluene-d8 (Surr)	104		80 - 120					05/09/13 13:45	20

1000

ug/L

Client Sample ID: S-8

Date Collected: 05/02/13 13:00

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-4

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	53		50		ug/L			05/09/13 00:35	1
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99	*	80 - 120			-		05/09/13 00:35	1
4-Bromofluorobenzene (Surr)	103		80 - 120					05/09/13 00:35	1
Toluene-d8 (Surr)	104		80 - 120					05/09/13 00:35	1
- Method: 8260B - Volatile Orga	nic Compounds ((GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ua/l			05/09/13 00:35	

Delizerie	ND	0.50	ug/L		03/09/13 00.33	•
Ethylbenzene	ND	0.50	ug/L		05/09/13 00:35	1
Toluene	ND	0.50	ug/L		05/09/13 00:35	1
Xylenes, Total	ND	1.0	ug/L		05/09/13 00:35	1
·						
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)		Limits 80 - 120		Prepared	Analyzed 05/09/13 00:35	Dil Fac
				Prepared		Dil Fac 1 1
4-Bromofluorobenzene (Surr)	103	80 - 120		Prepared	05/09/13 00:35	Dil Fac 1 1 1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-9

Date Collected: 05/02/13 14:00

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-5

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	1400		250	·	ug/L			05/09/13 03:04	5
(C4-C12)							÷		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 120			_		05/09/13 03:04	5
4-Bromofluorobenzene (Surr)	103		80 - 120					05/09/13 03:04	5
Toluene-d8 (Surr)	104		80 - 120					05/09/13 03:04	5
Method: 8260B - Volatile Orgai	nic Compounds (GC/MS)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	230		2.5		ug/L			05/09/13 03:04	5
Isopropyl Ether (DIPE)	ND		2.5		ug/L			05/09/13 03:04	5
Ethyl-t-butyl ether (ETBE)	ND		2.5		ug/L			05/09/13 03:04	5
Ethylbenzene	65		2.5		ug/L			05/09/13 03:04	5
Methyl-t-Butyl Ether (MTBE)	ND		2.5		ug/L			05/09/13 03:04	5
Tert-amyl-methyl ether (TAME)	ND		2.5		ug/L			05/09/13 03:04	5
tert-Butyl alcohol (TBA)	ND		50		ug/L			05/09/13 03:04	5
Toluene	53		2.5		ug/L			05/09/13 03:04	5
Xylenes, Total	160		5.0		ug/L			05/09/13 03:04	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103	•	80 - 120					05/09/13 03:04	5
Dibromofluoromethane (Surr)	102		80 - 120					05/09/13 03:04	5
Toluene-d8 (Surr)	104		80 - 120					05/09/13 03:04	5

Client Sample ID: S-10

Ethylbenzene

Toluene

Xylenes, Total

Methyl-t-Butyl Ether (MTBE)

tert-Butyl alcohol (TBA)

Tert-amyl-methyl ether (TAME)

Date Collected: 05/02/13 13:25

Date Received: 05/04/13 10:30

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

0.77

ND

ND

ND

ND

ND

Lab Sample ID: 440-45487-6

05/09/13 01:05

05/09/13 01:05

05/09/13 01:05

05/09/13 01:05

05/09/13 01:05

05/09/13 01:05

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	100		50		ug/L			05/09/13 01:05	1
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits	-			Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 120			_		05/09/13 01:05	1
4-Bromofluorobenzene (Surr)	103		80 - 120					05/09/13 01:05	1
Toluene-d8 (Surr)	104		80 - 120					05/09/13 01:05	1
- Method: 8260B - Volatile Organi	ic Compounds ((GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/09/13 01:05	1
Isopropyl Ether (DIPE)	. ND		0.50		ug/L			05/09/13 01:05	1
Ethyl-t-butyl ether (ETBE)	ND		0.50		ug/L			05/09/13 01:05	1

0.50

0.50

0.50

0.50

1.0

10

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-10

Date Collected: 05/02/13 13:25

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-6

Matrix: Ground Water

Surrogate	%Recovery Qualifier	Limits	Prepared Analy	zed Dil Fac
4-Bromofluorobenzene (Surr)	103	80 - 120	05/09/13	3 01:05 1
Dibromofluoromethane (Surr)	94	80 - 120	05/09/13	3 01:05 1
Toluene-d8 (Surr)	104	80 - 120	05/09/13	3 01:05 1

Client Sample ID: S-12

Date Collected: 05/02/13 13:50

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-7

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	190		50		ug/L			05/09/13 01:35	1
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	92		80 - 120			-		05/09/13 01:35	1
4-Bromofluorobenzene (Surr)	102		80 _ 120					05/09/13 01:35	1
Toluene-d8 (Surr)	103		80 - 120					05/09/13 01:35	1
Method: 8260B - Volatile Orga	anic Compounds (GC/MS)							
_	-	GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result		RL 0.50	MDL		D	Prepared	Analyzed 05/09/13 01:35	Dil Fac
_	-		RL 0.50 0.50	MDL	Unit ug/L ug/L	D	Prepared	Analyzed 05/09/13 01:35 05/09/13 01:35	Dil Fac
Benzene	Result		0.50	MDL	ug/L	D	Prepared	05/09/13 01:35	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	Result 1.2 0.71		0.50 0.50	MDL	ug/L ug/L	D	Prepared	05/09/13 01:35 05/09/13 01:35	Dil Fac 1 1 1 1
Analyte Benzene Ethylbenzene Toluene	Result 1.2 0.71 0.64	Qualifier	0.50 0.50 0.50	MDL	ug/L ug/L ug/L	<u>D</u>	Prepared Prepared	05/09/13 01:35 05/09/13 01:35 05/09/13 01:35	Dil Fac
Analyte Benzene Ethylbenzene Toluene Xylenes, Total	Result 1.2 0.71 0.64 3.8	Qualifier	0.50 0.50 0.50 1.0	MDL	ug/L ug/L ug/L	<u>D</u>		05/09/13 01:35 05/09/13 01:35 05/09/13 01:35 05/09/13 01:35	1 1 1

Client Sample ID: S-13

Toluene-d8 (Surr)

Date Collected: 05/02/13 12:50

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-8

05/09/13 01:35

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	1300		100		ug/L			05/09/13 14:15	2
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98	F-1	80 - 120					05/09/13 14:15	2
4-Bromofluorobenzene (Surr)	104		80 _ 120					05/09/13 14:15	2
Toluene-d8 (Surr)	105		80 - 120					05/09/13 14:15	2

80 - 120

103

Method: 8260B - Volatile Organic Compounds (GC/MS)								
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	130		1.0	ug/L			05/09/13 14:15	2
Ethylbenzene	49		1.0	ug/L			05/09/13 14:15	2
Toluene	95		1.0	ug/L			05/09/13 14:15	2
Xylenes, Total	85		2.0	ug/L			05/09/13 14:15	2

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-13

Date Collected: 05/02/13 12:50 Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-8

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		05/09/13 14:15	2
Dibromofluoromethane (Surr)	98		80 - 120		05/09/13 14:15	2
Toluene-d8 (Surr)	105		80 - 120		05/09/13 14:15	2

Client Sample ID: S-14R

Date Collected: 05/02/13 13:30

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-9

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	3200		100		ug/L			05/09/13 14:44	2
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 _ 120			-		05/09/13 14:44	2
4-Bromofluorobenzene (Surr)	105		80 - 120					05/09/13 14:44	2
Toluene-d8 (Surr)	104		80 - 120					05/09/13 14:44	2
- Method: 8260B - Volatile Orga	nic Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	200		1.0		ug/L			05/09/13 14:44	2
Ethylbenzene	95		1.0	•	ug/L			05/09/13 14:44	2
Toluene	130		1.0		ug/L			05/09/13 14:44	2

Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	80 _ 120			05/09/13 14:44	2
Dibromofluoromethane (Surr)	95	80 - 120			05/09/13 14:44	2
Toluene-d8 (Surr)	104	80 - 120	·		05/09/13 14:44	2

2.0

ug/L

200

Client Sample ID: S-17

Xylenes, Total

Date Collected: 05/02/13 10:30

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-10

05/09/13 14:44

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	570		50		ug/L			05/09/13 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120			-		05/09/13 02:35	1
4-Bromofluorobenzene (Surr)	102		80 - 120					05/09/13 02:35	1
Toluene-d8 (Surr)	105		80 - 120					05/09/13 02:35	4

Method: 8260B - Volatile Organic Compounds (GC/MS)								
Analyte	Result Qualifier	RL .	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	62	0.50		ug/L			05/09/13 02:35	1
Ethylbenzene	19	0.50		ug/L			05/09/13 02:35	1
Toluene	20	0.50		ug/L			05/09/13 02:35	1
Xylenes, Total	49	1.0		ug/L			05/09/13 02:35	1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-17

Date Collected: 05/02/13 10:30 Date Received: 05/04/13 10:30 Lab Sample ID: 440-45487-10

Matrix: Ground Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	-	05/09/13 02:35	1
Dibromofluoromethane (Surr)	96		80 - 120	•	05/09/13 02:35	1
Toluene-d8 (Surr)	105		80 - 120		05/09/13 02:35	1

Client Sample ID: S-18

Date Collected: 05/02/13 10:45

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-11

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	5000		500		ug/L			05/09/13 05:04	10
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 120			_		05/09/13 05:04	10
4-Bromofluorobenzene (Surr)	103		80 - 120					05/09/13 05:04	10
Toluene-d8 (Surr)	107		80 - 120					05/09/13 05:04	10
Method: 8260B - Volatile Orga	• '	•			11-14	_	Bi		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	720	Quaimer	5.0	MDL	ug/L		Prepared	Analyzed 05/09/13 05:04	Dil Fac
-		Quaimer		MDL		U	Prepared		
Benzene	720	Qualifier	5.0	MDL	ug/L		Prepared	05/09/13 05:04	10
Benzene Ethylbenzene	720 220	Quaimer	5.0 5.0	MDL	ug/L ug/L	b -	Prepared	05/09/13 05:04 05/09/13 05:04	10 10
Benzene Ethylbenzene Toluene	720 220 280		5.0 5.0 5.0	MDL	ug/L ug/L ug/L	<u>b</u> -	Prepared	05/09/13 05:04 05/09/13 05:04 05/09/13 05:04	10 10 10

Client Sample ID: S-19

Date Collected: 05/02/13 13:40 Date Received: 05/04/13 10:30

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 440-45487-12

05/09/13 05:04

05/09/13 05:04

Matrix: Ground Water

10

10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	1500		250		ug/L			05/09/13 03:34	5
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 120			_		05/09/13 03:34	5
4-Bromofluorobenzene (Surr)	101		80 - 120					05/09/13 03:34	5
Toluene-d8 (Surr)	104		80 - 120					05/09/13 03:34	5

80 _ 120

80 - 120

102

107

Method: 8260B - Volatile Organic Compounds (GC/MS)								
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	88		2.5	ug/L			05/09/13 03:34	5
Ethylbenzene	55		2.5	ug/L			05/09/13 03:34	5
Toluene	89		2.5	ug/L			05/09/13 03:34	5
Xylenes, Total	160		5.0	ug/L			05/09/13 03:34	5

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-19

Date Collected: 05/02/13 13:40 Date Received: 05/04/13 10:30 Lab Sample ID: 440-45487-12

Matrix: Ground Water

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	80 - 120		05/09/13 03:34	5
Dibromofluoromethane (Surr)	98	80 - 120		05/09/13 03:34	5
Toluene-d8 (Surr)	104	80 - 120		05/09/13 03:34	5
L					

Client Sample ID: S-20

Date Collected: 05/02/13 13:35

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-13

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D.	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	4500		500		ug/L			05/09/13 15:14	10
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94	·	80 - 120			_		05/09/13 15:14	10
4-Bromofluorobenzene (Surr)	103	ą	80 - 120					05/09/13 15:14	10
Toluene-d8 (Surr)	104		80 - 120					05/09/13 15:14	10

Method: 8260B - Volatile Orga	nic Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	380		5.0		ug/L			05/09/13 15:14	10
Ethylbenzene	240		5.0		ug/L			05/09/13 15:14	10
Toluene	220		5.0		ug/L			05/09/13 15:14	10
Xylenes, Total	300		10		ug/L			05/09/13 15:14	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		•	-		05/09/13 15:14	10
Dibromofluoromethane (Surr)	94		80 - 120					05/09/13 15:14	10
Toluene-d8 (Surr)	104		80 - 120					05/09/13 15:14	10

Client Sample ID: S-21A Lab Sample ID: 440-45487-14 Date Collected: 05/02/13 13:00 Matrix: Ground Water

Date Received: 05/04/13 10:30

Method: 8260B/CA_LUFTMS - V	olatile Organic	Compound	s by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	6800		2000		ug/L			05/09/13 00:10	40
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 120					05/09/13 00:10	40
Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr)	94 94		80 ₋ 120 80 ₋ 120		٠			05/09/13 00:10 05/09/13 00:10	40 40

Method: 8260B - Volatile Orga	nic Compounds (GC/MS)							
Analyte	Result Qualifier	RL	MDL U	nit	Ď	Prepared	Analyzed	Dil Fac
Benzene	1000	20	นยู	g/L			05/09/13 00:10	40
Ethylbenzene	270	20	uç	g/L			05/09/13 00:10	40
Toluene	470	20	uç	g/L			05/09/13 00:10	40
Xylenes, Total	480	40	uç	g/L			05/09/13 00:10	40

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-21A

Date Collected: 05/02/13 13:00 Date Received: 05/04/13 10:30 Lab Sample ID: 440-45487-14

Matrix: Ground Water

Surrogate	%Recovery Qualifier	Limits	Prepared Analy.	zed Dil Fac
4-Bromofluorobenzene (Surr)	94	80 - 120	05/09/13	00:10 40
Dibromofluoromethane (Surr)	94	80 - 120	05/09/13	00:10 40
Toluene-d8 (Surr)	96	80 - 120	05/09/13	00:10 40

Client Sample ID: S-21B

Date Collected: 05/02/13 13:10 Date Received: 05/04/13 10:30 Lab Sample ID: 440-45487-15

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			05/08/13 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120			-		05/08/13 21:43	1
4-Bromofluorobenzene (Surr)	91		80 - 120					05/08/13 21:43	1
Toluene-d8 (Surr)	96		80 - 120					05/08/13 21:43	1

Method: 8260B - Volatile Orga	nic Compounds (GC	C/MS)							
Analyte	Result Q	lualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/08/13 21:43	1
Ethylbenzene	ND		0.50		ug/L			05/08/13 21:43	1
Toluene	ND		0.50		ug/L			05/08/13 21:43	1
Xylenes, Total	ND		1.0		ug/L			05/08/13 21:43	1
								•	
Surrogate	%Recovery Q	Qualifier Li	mits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91	80	- 120			-		05/08/13 21:43	1
Dibromofluoromethane (Surr)	96	80	- 120					05/08/13 21:43	1
Toluene-d8 (Surr)	96	80	_ 120					05/08/13 21:43	1

Client Sample ID: S-22A

Date Collected: 05/02/13 13:10

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-16

Matrix: Ground Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	53000	-	5000		ug/L			05/09/13 15:44	100
(C4-C12)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Dibromofluoromethane (Surr)	. 96		80 - 120			-		05/09/13 15:44	100
4-Bromofluorobenzene (Surr)	102		80 - 120					05/09/13 15:44	100
Toluene-d8 (Surr)	105		80 - 120					05/09/13 15:44	100
Method: 8260B - Volatile Orga	nic Compounds ((GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1800	<u> </u>	50		ug/L			05/09/13 15:44	100
Ethylbenzene	2200		50		ug/L			05/09/13 15:44	100

Toluene	6800		50	ug/L		05/09/13 15:44	100
Xylenes, Total	11000		100	ug/L		05/09/13 15:44	100
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120			05/09/13 15:44	100

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-22A

Date Collected: 05/02/13 13:10

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-16

Matrix: Ground Water

Method: 8260B - Volatile Organic C	ompounds (GC/MS) (Co	ontinued)			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120		05/09/13 15:44	100
Toluene-d8 (Surr)	105		80 - 120		05/09/13 15:44	100
			and the second s			

Client Sample ID: S-22B Lab Sample ID: 440-45487-17

Date Collected: 05/02/13 12:50

Date Received: 05/04/13 10:30

Toluene-d8 (Surr)

Date Received: 05/04/13 10:30

Matrix: Ground Water

05/08/13 23:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			05/08/13 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 120			-		05/08/13 23:11	1
4-Bromofluorobenzene (Surr)	91		80 - 120					05/08/13 23:11	1
Toluene-d8 (Surr)	96		80 - 120					05/08/13 23:11	1

Method: 8260B - Volatile Orga	nic Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/08/13 23:11	1
Ethylbenzene	, ND		0.50		ug/L			05/08/13 23:11	1
Toluene	ND		0.50		ug/L			05/08/13 23:11	1
Xylenes, Total	ND		1.0		ug/L			05/08/13 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120			-		05/08/13 23:11	1
Dibromofluoromethane (Surr)	98		80 - 120					05/08/13 23:11	. 1

Client Sample ID: S-23

Lab Sample ID: 440-45487-18

Date Collected: 05/02/13 14:10

Matrix: Ground Water

80 - 120

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

96

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	540		50		ug/L			05/08/13 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 _ 120			-		05/08/13 23:41	1
4-Bromofluorobenzene (Surr)	96		80 - 120					05/08/13 23:41	1
Toluene-d8 (Surr)	94		80 - 120					05/08/13 23:41	1

15	0.50	ug/L		05/08/13 23:41	
5.6	0.50	ug/L		05/08/13 23:41	
24	0.50	ug/L		05/08/13 23:41	1
Compounds (GC/MS) Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
	24 5.6	Result Qualifier RL 24 0.50 5.6 0.50	Result 24 Qualifier RL 0.50 MDL ug/L ug/L ug/L 5.6 0.50 ug/L	Result 24 Qualifier RL 0.50 MDL ug/L ug/L Unit ug/L D verpared 5.6 0.50 ug/L	Result 24 Qualifier RL 0.50 Unit ug/L ug/L D 05/08/13 23:41 Prepared 05/08/13 23:41 Analyzed 05/08/13 23:41 5.6 0.50 ug/L 05/08/13 23:41

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-23

Date Collected: 05/02/13 14:10 Date Received: 05/04/13 10:30 Lab Sample ID: 440-45487-18

Matrix: Ground Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	4	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 120			05/08/13 23:41	1
Toluene-d8 (Surr)	94		80 - 120			05/08/13 23:41	1

Method Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFTM	Volatile Organic Compounds by GC/MS	SW846	TALIRV
S			

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-4

Lab Sample ID: 440-45487-1

Matrix: Ground Water

Date C	ollected:	05/02/13	10:25
Date R	eceived:	05/04/13	10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	103123	05/09/13 00:06	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	103124	05/09/13 00:06	MP	TAL IRV

Client Sample ID: S-5

Date Collected: 05/02/13 09:42

Lab Sample ID: 440-45487-2

Matrix: Ground Water

Date	Received	I: 05/04/13	10:30
_			

•	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	-	25	10 mL	10 mL	103241	05/09/13 13:15	MR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		25	10 mL	10 mL	103242	05/09/13 13:15	MR	TAL IRV

Client Sample ID: S-6

Date Collected: 05/02/13 08:50

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-3

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	103241	05/09/13 13:45	MR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		20	10 mL	10 mL	103242	05/09/13 13:45	MR	TAL IRV

Client Sample ID: S-8

Date Collected: 05/02/13 13:00

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-4

Matrix: Ground Water

Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Analysis	8260B	-	1	10 mL	10 mL	103123	05/09/13 00:35	MP	TAL IRV
Analysis	8260B/CA_LUFTM		1	10 mL	10 mL	103124	05/09/13 00:35	MP	TAL IRV
	Type Analysis	Type Method Analysis 8260B	Type Method Run Analysis 8260B	Type Method Run Factor Analysis 8260B 1	Type Method Run Factor Amount Analysis 8260B 1 10 mL	Type Method Run Factor Amount Amount Analysis 8260B 1 10 mL 10 mL	Type Method Run Factor Amount Amount Number Analysis 8260B 1 10 mL 10 mL 103123	Type Method Run Factor Amount Amount Number or Analyzed Analysis 8260B 1 10 mL 10 mL 103123 05/09/13 00:35	Type Method Run Factor Amount Amount Number or Analyzed Analyst Analysis 8260B 1 10 mL 10 mL 103123 05/09/13 00:35 MP

Client Sample ID: S-9

Date Collected: 05/02/13 14:00

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	103123	05/09/13 03:04	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		5	10 mL	10 mL	103124	05/09/13 03:04	MP	TAL IRV

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-10

Date Collected: 05/02/13 13:25 Date Received: 05/04/13 10:30 Lab Sample ID: 440-45487-6

Matrix: Ground Water

• .	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	103123	05/09/13 01:05	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	103124	05/09/13 01:05	MP	TAL IRV

Client Sample ID: S-12

Date Collected: 05/02/13 13:50

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-7

·	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	***************************************	1	10 mL	10 mL	103123	05/09/13 01:35	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM. S		1	10 mL	10 mL	103124	05/09/13 01:35	MP	TAL IRV

Client Sample ID: S-13

Date Collected: 05/02/13 12:50

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-8

Matrix: Ground Water

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	103241	05/09/13 14:15	MR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S	ŀ	2	10 mL	10 mL	103242	05/09/13 14:15	MR	TAL IRV

Client Sample ID: S-14R

Date Collected: 05/02/13 13:30

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-9

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	103241	05/09/13 14:44	MR ·	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		2	10 mL	10 mL	103242	05/09/13 14:44	MR.	TAL IRV

Client Sample ID: S-17

Date Collected: 05/02/13 10:30

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	-	1	10 mL	10 mL	103123	05/09/13 02:35	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		. 1	10 mL	10 m L	103124	05/09/13 02:35	MP	TAL IRV

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-18

Date Collected: 05/02/13 10:45 Date Received: 05/04/13 10:30 Lab Sample ID: 440-45487-11

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	103123	05/09/13 05:04	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S	`.	10	10 mL	10 mL	103124	05/09/13 05:04	MP	TAL IRV

Client Sample ID: S-19

Date Collected: 05/02/13 13:40

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-12

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	103123	05/09/13 03:34	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		5	10 mL	10 mL	103124	05/09/13 03:34	MP	TAL IRV

Client Sample ID: S-20

Date Collected: 05/02/13 13:35

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-13

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	103241	05/09/13 15:14	MR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		10	10 mL	10 mL	103242	05/09/13 15:14	MR	TAL IRV

Client Sample ID: S-21A

Date Collected: 05/02/13 13:00

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-14

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		40	10 mL	10 mL	103121	05/09/13 00:10	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		40	10 mL	10 mL	103122	05/09/13 00:10	WK	TAL IRV

Client Sample ID: S-21B

Date Collected: 05/02/13 13:10

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	10 mL	10 mL	103121	05/08/13 21:43	WK	TAL IRV	
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	103122	05/08/13 21:43	WK	TAL IRV	

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Client Sample ID: S-22A

Date Collected: 05/02/13 13:10 Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-16

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	103241	05/09/13 15:44	MR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		100	10 mL	10 mL	103242	05/09/13 15:44	MR	TAL IRV

Client Sample ID: S-22B

Date Collected: 05/02/13 12:50

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-17

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	103121	05/08/13 23:11	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	103122	05/08/13 23:11	WK	TAL IRV

Client Sample ID: S-23

Date Collected: 05/02/13 14:10

Date Received: 05/04/13 10:30

Lab Sample ID: 440-45487-18

Matrix: Ground Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	103121	05/08/13 23:41	WK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	103122	05/08/13 23:41	WK	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-103121/4	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 103121

мв мв MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Benzene ND 0.50 ug/L 05/08/13 20:15 ug/L Ethylbenzene ND 0.50 05/08/13 20:15 Toluene ND 0.50 ug/L 05/08/13 20:15 Xylenes, Total ND 1.0 ug/L 05/08/13 20:15

MB MB Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 92 80 - 120 05/08/13 20:15 Dibromofluoromethane (Surr) 96 80 - 120 05/08/13 20:15 97 80 - 120 Toluene-d8 (Surr) 05/08/13 20:15

Lab Sample ID: LCS 440-103121/5

Matrix: Water

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 103121

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Benzene 25.0 22.0 ug/L 88 70 _ 120 Ethylbenzene 25.0 23.5 ug/L 94 75 - 125 m,p-Xylene 50.0 53.1 ug/L 106 75 _ 125 25.0 27.0 o-Xylene ug/L 108 75 - 125 Toluene 25.0 23.5 ug/L 70 - 120

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 98
 80 - 120

 Dibromofluoromethane (Surr)
 97
 80 - 120

 Toluene-d8 (Surr)
 95
 80 - 120

Lab Sample ID: 440-45487-15 MS

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 103121

		Sample	Sample	Spike	MS	MS ·				%Rec.	
Analy	rte	Result	Qualifier	Added	Result	Qualifier	Unit	. D	%Rec	Limits	
Benze	ene	· ND		25.0	22.0		ug/L		88	65 - 125	
Ethylb	penzene	ND		25.0	23.0		ug/L		92	65 - 130	
m,p-X	(ylene	ND		50.0	51.4		ug/L		103	65 - 130	
o-Xyle	ene	ND		25.0	26.3		ug/L		104	65 - 125	 -
Toluer	ne	ND		25.0	23.7		ug/L		95	70 - 125	
1											

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	95		80 _ 120

Client: Conestoga-Rovers & Associates, Inc.

Project/Site: 461 8th St., Oakland, CA

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-45487-15 MSD	Client Sample ID: S-21B
Matrix: Ground Water	Prep Type: Total/NA
Amahasia Datahi 402404	

Analysis Batch: 103121

	Sample	Sample	Spike	MSD	MSD	•			%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		25.0	22.1		ug/L		88	65 - 125	0	20
Ethylbenzene	ND		25.0	22.8		ug/L		91	65 _ 130	1	20
m,p-Xylene	ND		50.0	51.0		ug/L		102	65 - 130	1	25
o-Xylene	ND		25.0	26.2		ug/L		103	65 - 125	0	20
Toluene	ND		25.0	23.7		ug/L		95	70 - 125	0	20

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 91 80 - 120 Dibromofluoromethane (Surr) 97 80 - 120 Toluene-d8 (Surr) 94 80 - 120

Lab Sample ID: MB 440-103123/4 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

Matilia. Water								rich type.	Otallita
Analysis Batch: 103123									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/08/13 20:07	1

Analyte	Result Qual	itter RL	MDL Unit	ט	Prepared	Analyzed	Dil Fac
Benzene	ND	0.50	ug/L			05/08/13 20:07	1
Isopropyl Ether (DIPE)	/ ND	0.50	ug/L			05/08/13 20:07	1
Ethyl-t-butyl ether (ETBE)	ND	0.50	ug/L			05/08/13 20:07	1
Ethylbenzene	ND	0.50	ug/L			05/08/13 20:07	1
Methyl-t-Butyl Ether (MTBE)	ND	0.50	ug/L			05/08/13 20:07	. 1
Tert-amyl-methyl ether (TAME)	ND	0.50	ug/L			05/08/13 20:07	.1
tert-Butyl alcohol (TBA)	ND	10	ug/L			05/08/13 20:07	1
Toluene	ND	0.50	ug/L			05/08/13 20:07	1
Xylenes, Total	ND	1.0	ug/L			05/08/13 20:07	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		05/08/13 20:07	1
Dibromofluoromethane (Surr)	96		80 - 120		05/08/13 20:07	1
Toluene-d8 (Surr)	105		80 - 120		05/08/13 20:07	1

Lab Sample ID: LCS 440-103123/5 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 103123

Analysis Batch. 100120								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	23.8		ug/L		95	70 - 120	
Isopropyl Ether (DIPE)	25.0	24.6		ug/L		98	60 _ 135	
Ethyl-t-butyl ether (ETBE)	25.0	24.5		ug/L		98	65 _ 135	
Ethylbenzene	25.0	24.5		ug/L		98	75 - 125	
m,p-Xylene	50.0	47.7		ug/L		95	75 - 125	
Methyl-t-Butyl Ether (MTBE)	25.0	24.3		ug/L		97	60 - 135	
o-Xylene	25.0	24.0		ug/L		96	75 _ 125	
Tert-amyl-methyl ether (TAME)	25.0	24.7		ug/L		99	60 _ 135	
tert-Butyl alcohol (TBA)	125	122		ug/L		98	70 - 135	
Toluene	25.0	24.0		ug/L		96	70 - 120	

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-103123/5

Matrix: Water

Analysis Batch: 103123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-45485-B-1 MS

Matrix: Water

Analysis Batch: 103123

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		25.0	24.2		ug/L		97	65 - 125	
Isopropyl Ether (DIPE)	ND		25.0	25.4		ug/L		102	60 - 140	
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.4		ug/L		102	60 - 135	
Ethylbenzene	ND		25.0	24.3		ug/L		97	65 ₋ 130	
m,p-Xylene	ND		50.0	46.7		ug/L		93	65 _ 130	
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.4		ug/L		101	55 ₋ 145	
o-Xylene	ND		25.0	23.8		ug/L		95	65 - 125	
Tert-amyl-methyl ether (TAME)	ND		25.0	25.6		ug/L		102	60 - 140	
tert-Butyl alcohol (TBA)	ND		125	124	•	ug/L		100	65 - 140	•
Toluene	ND		25.0	24.1		ug/L		96	70 - 125	

	MIS	IN S	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	98		80 _ 120
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-45485-B-1 MSD

Matrix: Water

Analysis Batch: 103123

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		25.0	23.1		ug/L		92	65 - 125	5	20
Isopropyl Ether (DIPE)	ND		25.0	24.1		ug/L		96	60 - 140	5	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	23.8		ug/L		95	60 - 135	7	25
Ethylbenzene	ND		25.0	23.4		ug/L		93	65 - 130	4	20
m,p-Xylene	ND		50.0	44.9		ug/L		90	65 - 130	4	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	23.8		ug/L		95	55 - 145	7	25
o-Xylene	ND		25.0	23.2		ug/L		93	65 _ 125	3	20
Tert-amyl-methyl ether (TAME)	ND		25.0	24.1		ug/L		96	60 - 140	6	30
tert-Butyl alcohol (TBA)	ND		125	123		ug/L		99	65 _ 140	. 1	25
Toluene	ND		25.0	23.1		ug/L		92	70 - 125	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-103241/4 Matrix: Water Analysis Batch: 103241		•					Client Sa	ample ID: Metho Prep Type: T	
· · · · ·	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/09/13 08:55	1
Ethylbenzene	ND		0.50		ug/L			05/09/13 08:55	1
Toluene	ND		0.50		ug/L			05/09/13 08:55	1
Xylenes, Total	ND		1.0		ug/L			05/09/13 08:55	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	·	80 - 120		,	-		05/09/13 08:55	1
Dibromofluoromethane (Surr)	90		80 - 120					05/09/13 08:55	1
Toluene-d8 (Surr)	104		80 - 120		•			05/09/13 08:55	1

Lab Sample ID: LCS 440-103241/5

Matrix: Water

Analysis Batch: 103241

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS	b		%Rec.	
Analyte	Added	Result	Qualifier I	Unit I	D %Rec	Limits	
Benzene	25.0	23.9		ug/L	96	70 - 120	
Ethylbenzene	25.0	24.3	l	ug/L	97	75 _ 125	
m,p-Xylene	50.0	47.7	l	ug/L	95	75 ₋ 125	
o-Xylene	25.0	23.9		ug/L	96	75 - 125	
Toluene	25.0	24.2	ı	ug/L	97	70 - 120	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 440-45270-B-11 MS

Client Sample ID: Matrix Spike

Matrix: Water									Prep Ty	pe: Total/NA
Analysis Batch: 103241										
	Sample	Sample	Spike	MS	MS			•	%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		25.0	24.1		ug/L		96	65 - 125	
Ethylbenzene	ND		25.0	24.2		ug/L		97	65 _ 130	
m,p-Xylene	ND		50.0	48.0		ug/L		96	65 - 130	
o-Xylene	ND		25.0	23.9		ug/L		96	65 _ 125	
Toluene	ND		25.0	24.2		ug/L		97	70 - 125	•
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	101		80 _ 120							
Dibromofluoromethane (Surr)	97		80 - 120							
Toluene-d8 (Surr)	104		80 - 120							

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

(C4-C12)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-45270-B Matrix: Water	-11 WOD						Cheffico	imple ic	Matrix Sp: Pren T	ype: To	
Analysis Batch: 103241										, poo .	
•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		25.0	24.3		ug/L		97	65 - 125	1	20
Ethylbenzene	ND		25.0	24.5		ug/L		98	65 - 130	1	20
m,p-Xylene	ND		50.0	48.0		ug/L		96	65 _ 130	0	25
o-Xylene	ND		25.0	23.7		ug/L		95	65 - 125	1	20
Toluene	ND		25.0	24.3		ug/L		97	70 - 125	0	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		80 - 120								
Dibromofluoromethane (Surr)	100		80 - 120								
Toluene-d8 (Surr)	105		80 - 120								

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-103122/4 Matrix: Water							Client Sa	ample ID: Metho Prep Type: 1	
Analysis Batch: 103122									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			05/08/13 20:15	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120		05/08/13 20:15	1
4-Bromofluorobenzene (Surr)	92		80 - 120		05/08/13 20:15	1
Toluene-d8 (Surr)	97		80 - 120		05/08/13 20:15	1

Toluene-ue (Surr)	97	60 - 120	•	00/06/13 20:15
Lab Sample ID: LCS 440-103122/6				Client Sample ID: Lab Control Sample
Matrix: Water				Prep Type: Total/NA

Analysis Batch: 103122								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons	500	581		ug/L		116	55 _ 130	
(C4-C12)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Toluene-d8 (Surr)	99		80 ₋ 120

Lab Sample ID: 440-45487-15 MS Matrix: Ground Water									Client Samp Prep Ty	ole ID: S-21B pe: Total/NA
Analysis Batch: 103122	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons	ND		1730	1290		ug/L		72	50 - 145	

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-45487-15 MS Client Sample ID: S-21B **Matrix: Ground Water** Prep Type: Total/NA

Analysis Batch: 103122

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Toluene-d8 (Surr)	95		80 - 120

Client Sample ID: S-21B Lab Sample ID: 440-45487-15 MSD Matrix: Ground Water Prep Type: Total/NA

Analysis Batch: 103122

(C4-C12)

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Volatile Fuel Hydrocarbons	ND		1730	1290		ug/L		72	50 - 145	0	20

MSD MSD %Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 80 - 120 97 4-Bromofluorobenzene (Surr) 91 80 - 120 80 - 120 Toluene-d8 (Surr) 94

Lab Sample ID: MB 440-103124/4 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 103124

	MR	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			05/08/13 20:07	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120		05/08/13 20:07	1
4-Bromofluorobenzene (Surr)	102		80 - 120		05/08/13 20:07	1
Toluene-d8 (Surr)	105		80 - 120		05/08/13 20:07	1

Lab Sample ID: LCS 440-103124/6 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA

Analysis Batch: 103124

		Spike	LCS	LCS		,		%Rec.	
Analyte	. · .	dded	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons		500	521		ug/L	_	104	55 - 130	
(C4-C12).									

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Toluene-d8 (Surr)	106		80 - 120

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Method: 8260B/CA	LUFTMS - Volatile	Organic C	Compounds I	by GC/MS	(Continued)

Lab Sample ID: 440-45485-B-1 Matrix: Water	MS										Client	Sample ID: M Prep Type	_	
Analysis Batch: 103124	Samula	Pamania	Cmileo		ме	MC						0/ D		
Amabata	Sample S	•	Spike		-	MS	:e:	1114			: 0/ D = =	%Rec.		
Analyte	Result	Quaimer	1730		Result 1440	Quaii	mer ———	Unit ug/L		D	%Rec 81	Limits 50 _ 145		
Volatile Fuel Hydrocarbons (C4-C12)	ND		1/30		1440			ug/L			81	50 - 145		
(64-612)														
	MS											•		
Surrogate	%Recovery	Qualifier	Limits											
Dibromofluoromethane (Surr)	98		80 - 120											
4-Bromofluorobenzene (Surr)	102		80 - 120											
Toluene-d8 (Surr)	105		80 - 120											
Lab Sample ID: 440-45485-B-1	MSD				•				Clier	ıt Sa	ımple ID	: Matrix Spike	Duplic	ate
Matrix: Water												Prep Typ	e: Total/	NA
Analysis Batch: 103124														
	Sample	Sample	Spike		MSD	MSD						%Rec.	F	RPE
Analyte	Result	Qualifier	Added	Î	Result	Quali	ifier	Unit		D	%Rec	Limits	RPD L	imi
Volatile Fuel Hydrocarbons	ND		1730		1330			ug/L			75	50 _ 145	8	20
(C4-C12)														
	MSD	MSD												
Surrogate	%Recovery	Qualifier	Limits											
Dibromofluoromethane (Surr)	96		80 - 120											
4-Bromofluorobenzene (Surr)	100		80 - 120											
Toluene-d8 (Surr)	105		80 - 120			•								
 Lab Sample ID: MB 440-10324	2/4										Client S	ample ID: Me	thod Bla	ınl
Matrix: Water												Prep Typ		
Analysis Batch: 103242													1000	
		мв мв												
Analyte	Re	sult Qualifier		RL		MDL	Unit		D	Р	repared	Analyzed	Dil	Fac
Volatile Fuel Hydrocarbons (C4-C12)		ND		50			ug/L					05/09/13 08:5	55	
		MB MB												
Surrogate	%Recov	ery Qualifier	Lim	its						P	repared	Analyzed	Dil	Fa
D" " " (O)												05/00/10 77		

ı		MB	MB				
	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Dibromofluoromethane (Surr)	90		80 - 120		05/09/13 08:55	1
	4-Bromofluorobenzene (Surr)	101		80 - 120		05/09/13 08:55	1
	Toluene-d8 (Surr)	104		80 - 120		05/09/13 08:55	1

Matrix: Water								Prep ⁻	Type: Total/NA
Analysis Batch: 103242									
		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons		500	537		ug/L		107	55 - 130	
(C4-C12)									
	LCS LCS								

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 93 80 - 120 4-Bromofluorobenzene (Surr) 105 80 - 120 Toluene-d8 (Surr) 104 80 - 120

Lab Sample ID: LCS 440-103242/6

TestAmerica Irvine

Client Sample ID: Lab Control Sample

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-45270-E Matrix: Water	3-11 MS							Client	•): Matrix Spike Type: Total/NA
Analysis Batch: 103242									•	<i>,</i> ,
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons (C4-C12)	ND		1730	1500		ug/L		85	50 ₋ 145	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits			-				
Dibromofluoromethane (Surr)	97		80 - 120							
4-Bromofluorobenzene (Surr)	101		80 - 120							
Toluene-d8 (Surr)	104		80 - 120							x -
 Lab Sample ID: 440-45270-E Matrix: Water Analysis Batch: 103242	3-11 MSD	,*					Client S	ample ID		pike Duplicate Type: Total/NA

Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
ND		1730	1500		ug/L	Automated Spiriters and Spirit	85	50 - 145	0	20
_	Result	Result Qualifier	Result Qualifier Added	Result Qualifier Added Result	Result Qualifier Added Result Qualifier	Result Qualifier Added Result Qualifier Unit	Result Qualifier Added Result Qualifier Unit D	Result Qualifier Added Result Qualifier Unit D %Rec	Result Qualifier Added Result Qualifier Unit D %Rec Limits	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	100	***************************************	80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	105		80 - 120

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

GC/MS VOA

Analy	/sis	Batch:	103121	
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45487-14	S-21A	Total/NA	Ground Water	8260B	
440-45487-15	S-21B	Total/NA	Ground Water	8260B	
440-45487-15 MS	S-21B	. Total/NA	Ground Water	8260B	
440-45487-15 MSD	S-21B	Total/NA	Ground Water	8260B	
440-45487-17	S-22B	Total/NA	Ground Water	8260B	
440-45487-18	S-23	Total/NA	Ground Water	8260B	
LCS 440-103121/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-103121/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 103122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45487-14	S-21A	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-15	S-21B	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-15 MS	S-21B	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-15 MSD	S-21B	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-17	S-22B	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-18	S-23	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
LCS 440-103122/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
				MS	
MB 440-103122/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				MS	

Analysis Batch: 103123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45485-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-45485-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-45487-1	S-4	Total/NA	Ground Water	8260B	
440-45487-4	S-8	Total/NA	Ground Water	8260B	
440-45487-5	S-9	Total/NA	Ground Water	8260B	
440-45487-6	S-10	Total/NA	Ground Water	8260B	
440-45487-7	S-12	Total/NA	Ground Water	8260B	
440-45487-10	S-17	Total/NA	Ground Water	8260B	•
440-45487-11	S-18	Total/NA	Ground Water	8260B	
440-45487-12	S-19	Total/NA	Ground Water	8260B	
LCS 440-103123/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-103123/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 103124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45485-B-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-45485-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-45487-1	S-4	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-4	S-8	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

GC/MS VOA (Continued)

Analysis Batch: 103124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45487-5	S-9	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-6	S-10	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-7	S-12	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-10	S-17	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-11	S-18	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-12	S-19	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
LCS 440-103124/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
				MS	
MB 440-103124/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				MS.	

Analysis Batch: 103241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45270-B-11 MS	Matrix Spike	Total/NA	Water	8260B	
440-45270-B-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-45487-2	S-5	Total/NA	Ground Water	8260B	
440-45487-3	S-6	Total/NA	Ground Water	8260B	
440-45487-8	S-13 .	Total/NA	Ground Water	8260B	
440-45487-9	S-14R	Total/NA	Ground Water	8260B	
440-45487-13	S-20	Total/NA	Ground Water	8260B	
440-45487-16	S-22A	Total/NA	Ground Water	8260B	
LCS 440-103241/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-103241/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 103242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45270-B-11 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
	,			MS	
440-45270-B-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-45487-2	S-5	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-3	S-6	Total/NA	Ground Water	8260B/CA_LUFT	
•		•		MS	
440-45487-8	S-13	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-9	S-14R	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
440-45487-13	S-20	Total/NA	Ground Water	8260B/CA_LUFT	
1				MS	
440-45487-16	S-22A	Total/NA	Ground Water	8260B/CA_LUFT	
				MS	
LCS 440-103242/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
<u></u>	<u> </u>	<u> </u>		MS	
MB 440-103242/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				MS	

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 461 8th St., Oakland, CA

TestAmerica Job ID: 440-45487-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.

TestAmerica Job ID: 440-45487-1 Project/Site: 461 8th St., Oakland, CA

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date			
Alaska	State Program	10	CA01531	06-30-13			
Arizona	State Program	9 -	AZ0671	10-13-13			
California	LA Cty Sanitation Districts	9	10256	01-31-14			
California	NELAP	9	1108CA	01-31-14			
California	State Program	9	2706	06-30-14			
Guam	State Program	9	Cert. No. 12.002r	03-28-13 *			
Hawaii	State Program	9	N/A	01-31-14			
Nevada	State Program	9	CA015312007A	07-31-13			
Northern Mariana Islands	State Program	9	MP0002	01-31-14			
Oregon	NELAP	10	4005	09-12-13			
USDA	Federal		P330-09-00080	06-06-14			
USEPA UCMR	Federal	1	CA01531	01-31-15			

^{*} Expired certification is currently pending renewal and is considered valid.

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Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-45487-1

List Source: TestAmerica Irvine

Login Number: 45487

List Number: 1

Creator: Freitag, Kevin R

Creator: Freitag, Kevin R		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Pete C/William W
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	