RECEIVED
By Alameda County Environmental Health 2:09 pm, Apr 28, 2016

ARCADIS Design & Consultancy for natural and built assets

Arcadis U.S., Inc.
2170 Highland Avenue
Suite 250
Birmingham
AL 35205
Tel 205 930 5700
Fax 205 930 5707
www.arcadis.com

ENVIRONMENT

First Quarter 2016 Semi-Annual Groundwater Monitoring Report
Former Atlantic Richfield Company Station #11132
3201 35th Avenue, Oakland, California 94619
Alameda County LOP Case #RO0000014
SFB-RWQCB Case #01-0227

"I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Arcadis U.S., Inc.

Megan Smoley, P.G. No. 8614
Certified Project Manager

Date:
April 27, 2016

Contact:
Megan Smoley

Phone:
626.590.1502

Email:
Megan.Smoley@arcadis.com

Our ref:
GP09BPNA.C112.N0000

ARCADIS Design & Consultancy for natural and built assets

Mr. Keith Nowell
Alameda County LOP
1131 Harbor Bay Parkway
Alameda, California 94502

Arcadis U.S., Inc.
2170 Highland Avenue
Suite 250
Birmingham
AL 35205
Tel 205 930 5700
Fax 205 930 5707
www.arcadis.com

Subject:
First Quarter 2016 Semi-Annual Groundwater Monitoring Report
Former Atlantic Richfield Company Station #11132
3201 35th Avenue, Oakland, California 94619
Alameda County LOP Case #RO0000014
SFB-RWQCB Case #01-0227

Dear Mr. Nowell:

ENVIRONMENT

Arcadis U.S., Inc. (Arcadis) has prepared this semi-annual groundwater monitoring report (GMR) to document the results of groundwater monitoring and sampling at the former Atlantic Richfield Company (ARCO) Service Station #11132, located at 3201 35th Avenue in Oakland, California (the Site; Figure 1).

Date:
April 27, 2016

Contact:
Megan Smoley

Phone:
626.590.1502

Email:
Megan.Smoley@arcadis.com

Our ref:
GP09BPNA.C112.N0000

1. Summary

1.1 Work Performed During Fourth Quarter 2015 and First Quarter 2016:

- Installed monitoring wells MW-10R and MW-11 on February 3 and 10, 2016, respectively.
- Conducted groundwater monitoring and sampling for the First Quarter 2016 on March 28, 2016.
- Prepared and submitted the *Well Installation and Well Replacement Report* on April 8, 2016 documenting the installation of wells MW-10R and MW-11.
- Prepared and submitted the *First Quarter 2016 Semi-Annual Groundwater Monitoring Report*, contained herein.

1.2 Work Proposed for Second and Third Quarters 2016:

- Conduct quarterly groundwater monitoring and sampling of newly installed wells MW-10R and MW-11.
- Conduct semi-annual groundwater monitoring and sampling for Third Quarter 2016.
- Prepare and submit the *Third Quarter 2016 Semi-Annual Groundwater Monitoring Report,* which will include the second quarter groundwater analytical results from samples collected at MW-10R and MW-11.

SITE INFORMATION

Current Phase of Project:	Groundwater Monitoring and Sampling
Frequency of Monitoring and Sampling	Semi-Annual Gauging (1/3Q): MW-1 through MW-11 and RW-1 Semi-Annual Sampling (1/3Q): MW-1, MW-2, MW-5, MW-8, MW-9, MW-10R*, MW-11*, RW-1 Annual Sampling (1Q): MW-4 and MW-7 *Note: MW-10R and MW-11 will be sampled quarterly for one year after installation through 4Q16.
Have Liquid Phase Hydrocarbons (LPH) Been Measured Onsite, Historically?	Yes
Historical Range in Depth to Water (DTW; feet below top of casing [btoc]):	9.11 (MW-8 3Q/2007) to 32.20 (RW-1 2Q/1994)

CURRENT QUARTER MONITORING DATA

Wells Gauged:	MW-1, MW-2, MW-4, MW-7 through MW-9, MW-10R, MW-11, RW-1
Wells Sampled:	MW-1, MW-2, MW-4, MW-7, MW-8, MW-9, MW-10R, MW-11, RW-1
Monitoring and Sampling Date:	March 28, 2016
LPH Measured This Quarter:	No
LPH Recovered This Quarter:	None
Cumulative LPH Recovered to Date:	None
DTW Range (feet btoc):	10.72 (MW-8) to 16.29 (MW-4)
Groundwater Flow Direction and Gradient (feet/foot):	South at 0.007 feet/foot

CURRENT QUARTER ANALYTICAL DATA

Constituents	Number of Detections Above LRL : Total Samples Collected	Minimum Detected Concentration, in µg/L (Sample ID)	Maximum Detected Concentration, in µg/L (Sample ID)
GRO	7 : 9	199 (RW-1)	38,000 (MW-10R)
Benzene	5 : 9	4.41 (MW-9)	7,360 (MW-2)
Toluene	3 : 9	53.8 (MW-8)	2,810 (MW-10R)
Ethylbenzene	5 : 9	26.8 (MW-9)	1,350 (MW-2)
Total Xylenes	4 : 9	6.32 (MW-9)	5,310 (MW-10R)
MTBE	5 : 9	1.30 (MW-10R)	458 (MW-7)
TBA	4 : 9	3.70 (MW-8)	463 (MW-2)
DIPE	0 : 9	--	--
ETBE	0 : 9	--	--
TAME	1 : 9	7.00 (MW-7)	7.00 (MW-7)
Ethanol	0 : 9	--	--

EDB	0 : 9	--	--
1,2-DCA	0 : 9	--	--
Naphthalene	0 : 0	--	--

Table Notes:
µg/L = Micrograms per liter
GRO = Gasoline range organics
TBA = Tert-butyl alcohol
ETBE = Ethyl tert-butyl ether
EDB = 1,2-dibromoethane
LRL = Laboratory reporting limit
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
TAME = Tert-amyl methyl ether
1,2-DCA = 1,2-dichloroethane

2. Groundwater Monitoring and Sampling

2.1 Monitoring and Sampling Procedures

During the First Quarter 2016 sampling event, HydraSleeves were used to collect groundwater samples at the Site. Prior to groundwater sampling, depths to water were measured to within 0.01 feet below top of casing (btoc) in wells MW-1, MW-2, MW-4, MW-7, MW-8, MW-9, MW-10R, MW-11, and RW-1 using an oil/water interface probe. Onsite wells MW-3 and MW-6 were inadvertently not gauged by Broadbent since they were not on the sampling schedule. Samples were collected from wells MW-1, MW-2, MW-4, MW-7, MW-8, MW-9, MW-10R, MW-11, and RW-1. Monitoring well MW-5 was not gauged or sampled due to a parked car blocking access to the well. Field methods used during groundwater monitoring are provided in Attachment A.

All monitoring and sampling activities for the Site during the First Quarter 2016 were performed by Broadbent and Associates, Inc. (Broadbent). The groundwater sampling data package is included as Attachment B.

2.2 Groundwater Sample Analysis

Groundwater samples collected from wells MW-1, MW-2, MW-4, MW-7, MW-8, MW-9, MW-10R, MW-11, and RW-1 were submitted under chain-of-custody protocol to ESC Lab Sciences (ESC), a California state-certified laboratory. Samples were analyzed for GRO by EPA Method 8015B, benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX), MTBE, TBA, DIPE, ETBE, TAME, ethanol, 1,2-DCA, and EDB by EPA Method 8260B. The certified laboratory analytical report, including chain-of-custody documentation, is included as Attachment C.

2.3 Quality Assurance/Quality Control

No issues were noted by ESC during sample analysis that would have an adverse effect on the quality of the data and no issues affecting the sampling protocol were noted.

3. Results and Discussion

The depth to water measurements and analytical data presented this quarter are consistent with historical measurements.

Depth to water at the Site ranged from 10.72 feet btoc at MW-8 to 16.29 feet btoc at MW-4. Resulting

groundwater surface elevations ranged from 154.07 feet at MW-4 to 155.33 feet at RW-1. Water level elevations yielded a potentiometric groundwater gradient to the south at approximately 0.007 feet per foot. Groundwater elevation contours are presented on Figure 2.

GRO and benzene were detected above laboratory reporting limits (LRLs) in wells MW-1, MW-2, MW-8, MW-9, and MW-10R. MTBE was detected above LRLs in wells MW-1, MW-2, and MW-10R. TBA was detected above the LRL in wells MW-1, MW-2, MW-8 and MW-10R. Current groundwater monitoring and sampling data are summarized in Table 1, and presented on Figure 3. Historical groundwater monitoring and sampling results are summarized in Table 2. Groundwater flow direction and gradient information are presented in Table 3.

Starting in the Third Quarter 2012, Arcadis began preparing the semi-annual groundwater monitoring reports for the Site. Historical tables provided by Broadbent, including analytical results for fuel oxygenates (analyzed from Third Quarter 1993 to First Quarter 2012), are provided in Attachment D.

4. Recommendations

Arcadis recommends continuation of groundwater monitoring and sampling on a quarterly basis at MW-10R and MW-11 for at least four consecutive quarters, and on a semi-annual basis at other monitoring well locations in accordance with the approved schedule.

5. Limitations

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by ESC, and our understanding of the San Francisco Regional Water Quality Control Board (SF-RWQCB) requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Arcadis and ARCO. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

If you have any questions or comments regarding the contents of this report, please contact Megan Smoley at 626.590.1502 or by e-mail at Megan.Smoley@arcadis.com.

Licensed approver:

Megan Smoley, P.G. No. 8614
Certified Project Manager

Tables

Figures

Attachments

cc: Ms. Shelby Lathrop, Conoco Phillips, 76 Broadway, Sacramento, California 95818

Tables

Table 1
Current Groundwater Monitoring and Analtyical Data
CA-11132
3201 35th Ave, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/l)	NAPH (µg/L)	Notes
MW-1	3/28/2016		169.75	14.78	--	154.97	8,110	6.67(J)	<50.0	59.6	<30.0	5.80(J)	43.5(J)	<10.0	<10.0(J3)	<10.0	<10.0	<10.0	<1,000	1.75	--	
MW-2	3/28/2016		168.14	13.55	--	154.59	36,500	7,360	609	1,350	3,140	118	463	<50.0	<50.0(J3)	<50.0	<50.0	<50.0	<5,000	1.64	--	
MW-3	3/28/2016		167.17	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--	(Not Sampled)
MW-4	3/28/2016		170.36	16.29	--	154.07	<100	<1.00	<5.00	<1.00	<3.00	15.0	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	2.27	--	
MW-5	3/28/2016		165.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Not Sampled, covered by vehicle)
MW-6	3/28/2016		165.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Not Sampled)
MW-7	3/28/2016		168.08	13.92	--	154.16	222	<1.00	<5.00	<1.00	<3.00	458	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	7.00	<100	2.51	--	
MW-8	3/28/2016		165.74	10.72	--	155.02	14,100	167	53.8	835	1,330	<50.0	3.70(J)	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	1.50	--	
MW-9	3/28/2016		166.20	10.96	--	155.24	7,630	4.41	<5.00	26.8	6.32	<1.00	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	3.96	--	
MW-10R	3/28/2016		166.80	12.50	--	154.30	38,000	3,830	2,810	1,130	5,310	1.30	40.5	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	1.82	--	
MW-11	3/28/2016		165.64	11.32	--	154.32	<100	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	1.12	--	
RW-1	3/28/2016		168.01	12.68	--	155.33	199	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	1.01	--	

Notes:

TOC = Top of casing measured
DTW = Depth to water
LNAPL = Light non-aqueous phase liquid (LPH)
GW Elev = Groundwater elevation
GRO = Gasoline range organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MTBE = Methyl tert-butyl ether
TBA = tert-butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME= tert-Amyl methyl ether
DO = Dissolved oxygen
1,2-DCA = 1,2-dichloroethane
EDB = 1,2-dibromoethane
Ft msl = Feet above mean sea level
J = The identification of the analyte is acceptable; the reported value is an estimate.
J3 = The associated batch QC was outside the established quality control range for precision.
-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
mg/L = Milligrams per liter
µg/L = Micrograms per liter
Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list; TPHg was changed to GRO; the
Beginning in the Second Quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12
Values for DO and pH were obtained through field measurements
GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through
The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield

Table 2
Historical Groundwater Monitoring and Analtyical Data
CA-11132
3201 35th Ave, Oakland, CA 94619

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-1	3/7/1991		169.75	20.59	--	149.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/1/1991		169.75	16.51	0.15	153.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/3/1992		169.75	22.30	0.27	147.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/5/1992		169.75	23.98	0.24	145.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/13/1993		169.75	17.03	0.24	152.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/23/1993		169.75	18.10	0.42	151.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/12/1993		169.75	22.02	0.49	147.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/21/1993		169.75	25.12	1.09	143.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/21/1994		169.75	23.02	0.76	145.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/20/1994		169.75	24.54	1.80	143.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/1/1994		169.75	24.11	0.35	145.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	12/23/1994		169.75	18.19	--	151.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/26/1995		169.75	16.25	1.10	152.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/8/1995		169.75	22.92	--	146.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/22/1995		169.75	24.45	0.85	144.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	10/27/1995		169.75	25.41	--	143.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/25/1996		169.75	18.20	--	151.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/19/1996		169.75	19.06	1.22	149.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/23/1996		169.75	22.98	0.89	145.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/11/1996		169.75	23.99	0.89	144.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/21/1997		169.75	16.80	0.90	152.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/29/1997		169.75	21.90	0.85	147.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/30/1997	Dup	--	--	--	--	92,000	--	3,500	8,100	4,400	23,800	6,900	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	4/30/1997		--	--	--	--	100,000	--	3,600	8,000	4,000	21,300	7,700	--	--	--	--	--	--	--	5.2	--	
MW-1	8/21/1997	Dup	169.75	23.40	--	146.35	120,000	--	3,200	8,100	3,800	19,600	5,200	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	8/21/1997		169.75	23.40	--	146.35	140,000	--	3,000	8,500	3,900	22,100	5,700	--	--	--	--	--	--	--	5.3	--	
MW-1	11/5/1997	Dup	169.75	23.70	--	145.51	88,000	--	7,300	4,800	3,600	16,900	8,200	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	11/5/1997		169.75	23.70	--	145.51	68,000	--	6,200	4,400	3,300	14,300	8,000	--	--	--	--	--	--	--	4.7	--	
MW-1	2/3/1998		169.75	13.63	0.32	155.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/4/1998	Dup	--	--	--	--	160,000	--	2,300	8,400	5,000	29,400	<10,000	--	--	--	--	--	--	--	--	--	(Dup)
MW-1	2/4/1998		--	--	--	--	190,000	--	2,200	10,000	5,600	32,000	<10,000	--	--	--	--	--	--	--	5.3	--	
MW-1	5/28/1998		169.75	18.03	0.17	151.55	87,000	--	980	3,900	3,600	19,000	2,900	--	--	--	--	--	--	--	3.8	--	
MW-1	12/30/1998		169.75	19.50	0.08	150.17	70,000	--	530	3,200	2,900	16,000	3,600	--	--	--	--	--	--	--	--	--	
MW-1	2/2/1999		169.75	18.93	0.03	150.79	79,000	--	480	3,100	3,500	21,000	3,500	--	--	--	--	--	--	--	--	--	
MW-1	5/10/1999		169.75	18.28	0.03	151.44	110,000	--	160	1,900	3,700	24,000	3,000	--	--	--	--	--	--	--	--	--	
MW-1	8/24/1999		169.75	20.13	0.06	149.56	110,000	--	850	1,300	1,900	19,000	<50	--	--	--	--	--	--	--	--	--	
MW-1	11/3/1999		169.75	22.27	0.36	147.12	65,000	--	6,300	1,100	3,300	9,500	8,900	--	--	--	--	--	--	--	--	--	
MW-1	3/1/2000		169.75	14.79	0.23	154.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/21/2000		169.75	18.10	0.33	151.32	61,000	--	330	780	2,700	17,000	1,300	--	--	--	--	--	--	--	--	--	
MW-1	7/31/2000		169.75	21.60	0.53	147.62	1,500,000	--	340	2,100	24,000	120,000	2,700	--	--	--	--	--	--	--	--	--	
MW-1	11/20/2000		169.75	21.69	0.37	147.69	1,700,000	--	1,800	2,300	19,000	93,000	3,900	--	--	--	--	--	--	--	--	--	
MW-1	2/18/2001		169.75	16.70	0.13	152.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/26/2001		169.75	14.38	0.15	155.22	100,000	--	658	466	4,210	15,000	1,890	--	--	--	--	--	--	--	--	--	
MW-1	6/7/2001		169.75	20.78	--	148.97	70,000	--	705	440	3,870	12,200	2,720	--	--	--	--	--	--	--	--	--	
MW-1	9/5/2001		169.75	23.36	0.35	146.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/30/2001		169.75	20.85	0.41	148.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	12/6/2001		169.75	18.72	0.27	150.76	39,000	--	3,500	237	2,150	4,500	5,400	--	--	--	--	--	--	--	--	--	
MW-1	2/20/2002		169.75	17.43	0.15	152.17	52,000	--	465	271	1,600	11,400	106	--	--	--	--	--	--	--	--	--	
MW-1	6/20/2002		169.75	21.18	0.34	148.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/11/2002		169.75	22.86	0.40	146.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/12/2002		169.75	22.65	0.37	146.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/29/2003		169.75	18.15	0.30	151.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/22/2003		169.75	18.49	0.20	151.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/24/2003		169.75	21.44	0.35	147.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	7/28/2003		169.75	22.72	0.35	146.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/12/2003		169.75	22.64	0.23	146.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/12/2003		169.75	20.70	0.24	148.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/18/2003		169.75	21.70	0.25	148.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/23/2004		169.75	16.34	0.09	153.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/4/2004		169.75	21.28	0.16	148.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/4/2004		169.75	22.54	0.10	147.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	9/22/2004		169.75	22.76	0.20	147.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/10/2004		169.75	20.19	0.14	149.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	1/13/2005		169.75	14.58	0.03	155.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/15/2005		169.75	16.13	0.04	153.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	3/7/2005		169.75	13.31	0.01	156.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/16/2005		169.75	15.74	0.02	154.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/17/2005		169.75	21.15	0.08	148.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/18/2005		169.75	20.15	--	149.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/7/2006		169.75	15.19	0.01	154.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/19/2006		169.75	17.42	--	152.33	44,000	--	73	510	3,300	5,300	86	<400	<10	<10	<10	<10	<10	<6,000	--	--	
MW-1	8/23/2006		169.75	22.01	0.14	147.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/15/2006		169.75	21.98	0.18	147.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/14/2007		169.75	17.12	0.17	152.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/22/2007		169.75	19.49	0.01	150.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/15/2007		169.75	22.24	0.01	147.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/8/2007		169.75	21.84	0.01	147.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	2/20/2008		169.75	16.52	0.02	153.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/7/2008		169.75	20.91	0.02	148.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/20/2008		169.75	22.77	0.02	146.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	11/17/2008		169.75	22.05	--	147.70	27,000	--	780	30	1,800	1,400	590	350	<10	<10	<10	<10	27	<6,000	--	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-1	2/25/2009		169.75	15.28	0.02	154.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	4/8/2009		169.75	18.18	--	151.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	5/28/2009		169.75	19.62	0.01	150.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	6/16/2009		169.75	20.94	0.01	148.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/6/2009		169.75	22.31	0.01	147.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	3/4/2010		169.75	14.27	--	155.48	14,000	--	45	<10	610	390	<10	<80	<10	<10	<10	<10	<10	<2,000	0.54	--	(P)
MW-1	9/2/2010		169.75	22.32	--	147.43	8,200	--	10	<5.0	230	140	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	(NP)
MW-1	3/15/2011		169.75	14.99	--	154.76	4,500	--	<5.0	<5.0	56	30	16	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	(P,t)
MW-1	8/17/2011		169.75	20.41	--	149.34	1,200	--	<1.0	<1.0	24	15	8.3	<8.0	<1.0	<1.0	<1.0	<1.0	<1.0	<500	--	--	(P)
MW-1	2/6/2012		169.75	18.69	--	151.06	710	--	<1.0	<1.0	2.9	2.2	10	100	<1.0	<1.0	<1.0	<1.0(*)	<1.0	<500	--	--	(P)
MW-1	8/21/2012		169.75	21.77	--	147.98	5,000	--	230	7.3	230	68	77	<20	<2.5	<2.5	<2.5	<2.5	4.3	<1,300	--	--	
MW-1	2/4/2013		169.75	18.36	(Sheen)	151.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/1/2013		169.75	22.25	0.15	147.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)
MW-1	2/27/2014		169.75	19.82	0.07	149.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	8/27/2014		169.75	22.03	0.15	147.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	3/27/2015		169.75	19.54	--	150.21	7,900	--	17	<2.5	110	25	13	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2,500	3.23	--	(HC odor, t)
MW-1	8/27/2015		169.75	21.64	0.10	148.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LNAPL present)
MW-1	3/28/2016		169.75	14.78	--	154.97	8,110	--	6.67(J)	<50.0	59.6	<30.0	5.80(J)	43.5(J)	<10.0	<10.0(J3)	<10.0	<10.0	<10.0	<1,000	1.75	--	
MW-2	3/7/1991		168.14	19.18	--	148.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/1/1991		168.14	15.21	--	152.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/3/1992		168.14	20.93	--	147.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	10/5/1992		168.14	22.74	--	145.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/13/1993		168.14	15.55	--	152.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/23/1993		168.14	16.54	--	151.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/12/1993		168.14	20.46	--	147.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	10/21/1993		168.14	24.91	--	143.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/21/1994		168.14	21.20	--	146.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/20/1994		168.14	22.44	--	145.70	1,800	--	140	370	54	290	24	--	--	--	--	--	--	--	1.7	--	
MW-2	8/1/1994		168.14	22.24	--	145.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	12/23/1994		168.14	16.25	--	151.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/26/1995		168.14	14.55	--	153.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	6/8/1995		168.14	21.18	--	146.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	8/22/1995		168.14	22.76	--	145.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	10/27/1995		168.14	23.61	--	144.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/25/1996		168.14	15.95	--	152.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/19/1996		168.14	17.33	--	150.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	7/23/1996		168.14	21.25	--	146.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	11/11/1996		168.14	22.27	--	145.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	1/21/1997		168.14	15.19	--	152.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/29/1997		168.14	20.22	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	4/30/1997		--	--	--	--	130,000	--	4,600	15,000	6,000	37,000	<5,000	--	--	--	--	--	--	--	5	--	
MW-2	8/21/1997		168.14	21.74	--	146.40	110,000	--	6,000	16,000	4,700	28,000	<500	--	--	--	--	--	--	--	4.6	--	
MW-2	11/5/1997		168.14	21.61	--	146.53	120,000	--	7,800	18,000	4,900	28,100	<2,500	--	--	--	--	--	--	--	4.6	--	
MW-2	2/3/1998		168.14	11.51	--	156.63	75,000	--	590	1,500	1,800	12,800	<2,500	--	--	--	--	--	--	--	4.5	--	
MW-2	5/28/1998		168.14	16.51	--	151.63	79,000	--	3,900	3,100	3,100	18,000	900	--	--	--	--	--	--	--	4.3	--	
MW-2	12/30/1998		168.14	17.70	--	150.44	95,000	--	4,700	3,500	3,700	21,000	<250	--	--	--	--	--	--	--	--	--	
MW-2	2/2/1999		168.14	15.46	--	152.68	170,000	--	3,500	1,500	5,200	34,000	<500	--	--	--	--	--	--	--	--	--	
MW-2	5/10/1999		168.14	16.52	--	151.62	84,000	--	3,200	3,200	3,700	20,000	75	--	--	--	--	--	--	--	--	--	
MW-2	8/24/1999		168.14	20.73	--	147.41	130,000	--	9,100	9,200	4,700	27,000	<250	--	--	--	--	--	--	--	--	--	
MW-2	11/3/1999		168.14	20.93	--	147.21	120,000	--	10,000	21,000	4,700	30,200	2,200	--	--	--	--	--	--	--	--	--	
MW-2	3/1/2000		168.14	13.37	--	154.77	39,000	--	1,400	1,500	1,700	8,100	44	--	--	--	--	--	--	--	--	--	
MW-2	4/21/2000		168.14	16.59	--	151.55	68,000	--	3,300	2,500	3,100	20,000	260	--	--	--	--	--	--	--	--	--	
MW-2	7/31/2000		168.14	16.37	--	151.77	99,000	--	5,600	1,400	4,300	22,000	490	--	--	--	--	--	--	--	--	--	
MW-2	11/20/2000		168.14	19.71	--	148.43	37,000	--	5,100	1,500	1,300	4,800	2,800	--	--	--	--	--	--	--	--	--	
MW-2	2/18/2001		168.14	15.29	--	152.85	54,000	--	5,020	3,880	2,850	15,400	1,010	--	--	--	--	--	--	--	--	--	
MW-2	6/7/2001		168.14	19.43	--	148.71	110,000	--	7,240	4,380	4,160	22,100	567	--	--	--	--	--	--	--	--	--	
MW-2	9/5/2001		168.14	22.44	--	145.70	69,000	--	5,750	5,790	2,770	14,200	1,510	--	--	--	--	--	--	--	--	--	
MW-2	11/30/2001		168.14	19.58	--	148.56	120,000	--	7,270	6,540	4,590	23,000	794	--	--	--	--	--	--	--	--	--	
MW-2	2/20/2002		168.14	16.39	--	151.75	56,000	--	2,410	2,270	2,910	14,300	160	--	--	--	--	--	--	--	--	--	
MW-2	6/20/2002		168.14	19.77	--	148.37	86,000	--	7,310	6,490	3,080	14,600	659	--	--	--	--	--	--	--	--	--	
MW-2	9/11/2002		168.14	21.60	--	146.54	130,000	--	7,600	13,000	5,400	30,000	<5,000	--	--	--	--	--	--	--	--	--	
MW-2	11/12/2002		168.14	21.34	--	146.80	46,000	--	4,100	4,300	1,900	10,000	1,900	--	--	--	--	--	--	--	--	--	
MW-2	1/29/2003		168.14	16.80	--	151.34	77,000	--	4,700	2,600	2,800	13,000	820	<2,000	<50	<50	<50	<50	<50	<4,000	--	--	
MW-2	5/22/2003		168.14	17.15	--	150.99	52,000	--	6,400	2,600	1,800	7,400	1,000	<2,000	--	<50	<50	--	<50	<10,000	--	--	
MW-2	7/28/2003		168.14	21.47	--	146.67	31,000	--	6,900	5,500	2,200	12,000	1,700	<4,000	<100	<100	<100	<100	<100	<20,000	--	--	
MW-2	11/18/2003		168.14	20.50	--	147.64	23,000	--	3,300	800	500	2,000	500	<1,000	--	<25	<25	--	<25	<5,000	--	--	
MW-2	2/23/2004		168.14	14.77	--	153.37	84,000	--	14,000	6,200	3,100	14,000	790	<5,000	<120	<120	<120	<120	<120	<25,000	--	--	
MW-2	5/4/2004		168.14	20.09	--	148.05	120,000	--	15,000	17,000	4,900	24,000	780	<10,000	<250	<250	<250	<250	<250	<50,000	--	--	
MW-2	8/4/2004		168.14	21.39	--	146.75	38,000	--	9,100	3,300	1,900	5,800	430	<10,000	<250	<250	<250	<250	<250	<50,000	--	--	
MW-2	11/10/2004		168.14	18.98	--	149.16	22,000	--	4,400	2,000	940	3,600	310	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-2	2/15/2005		168.14	15.62	--	152.52	67,000	--	11,000	4,200	3,000	11,000	690	<4,000	<100	<100	<100	<100	<100	<20,000	--	--	
MW-2	5/16/2005		168.14	14.71	--	153.43	94,000	--	11,000	7,600	4,100	17,000	560	<10,000	<250	<250	<250	<250	<250	<50,000	--	--	
MW-2	8/17/2005		168.14	20.00	--	148.14	110,000	--	13,000	8,000	4,300	18,000	480	<4,000	<100	<100	<100	<100	<100	<20,000	--	--	
MW-2	11/18/2005		168.14	20.89	--	147.25	37,000	--	11,000	2,400	1,500	4,600	340	<4,000	<100	<100	<100	<100	<100	<20,000	--	--	
MW-2	2/7/2006		168.14	13.31	--	154.83	74,000	--	8,900	5,800	3,600	14,000	440	<4,000	160	<100	<100	<100	<100	<60,000	--	--	
MW-2	5/19/2006		168.14	16.30	--	151.84	78,000	--	11,000	3,700	4,500	14,000	430	<4,000	<100	<100	<100	<100	<100	<60,000	--	--	
MW-2	8/23/2006		168.14	20.83	--	147.31	100,000	--	12,000	9,100	5,800	25,000	480	<4,000	<100	<100	<100	<100	<100	<60,000	--	--	
MW-2	11/15/2006		168.14	20.80	--	147.34	46,000	--	8,800	3,600	2,300	8,500	400	<4,000	<100	<100	<100	<100	<100	<60,000	0.70	--	
MW-2	2/14/2007		168.14	15.96	(Sheen)	152.18	100,000	--	13,000	3,600	6,200	26,000	810	<4,000	<100	<100	<100	<100	<100	<60,000	1.43	--	
MW-2	5/22/2007		168.14	18.20	--	149.94	91,000	--	15,000	8,700	4,700	20,000	1,000	<10,000	<250	<250	<250	<250	<250	<150,000	0.08	--	
MW-2	8/15/2007		168.14	21.23	(Sheen)	146.91	14,000	--	7,300	130	280	600	260	2,400	<50	<50	<50	<50	<50	<30,000	4.24	--	
MW-2	11/8/2007		168.14	20.32	--	147.82	22,000	--	7,400	420	640	1,700	240	2,800	<50	<50	<50	<50	<50	<30,000	1.21	--	
MW-2	2/20/2008		168.14	15.20	0.06	152.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	5/7/2008		168.14	19.80	0.04	148.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	8/20/2008		168.14	21.70	0.01	146.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	11/17/2008		168.14	20.73	--	147.41	45,000	--	8,400	700	1,500	5,600	320	1,800	<10	<10	<10	<10	<10	<6,000	--	--	
MW-2	2/25/2009		168.14	14.15	--	153.99	18,000	--	5,200	<250	380	1,400	<250	<5,000	<250	<250	<250	<250	<250	<150,000	2.11	--	
MW-2	4/8/2009		168.14	17.00	--	151.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	5/28/2009		168.14	18.43	(Sheen)	149.71	37,000	--	5,300	1,600	1,400	5,600	510	<2,500	<120	<120	<120	<120	<120	<75,000	0.16	--	
MW-2	6/16/2009		168.14	19.80	0.01	148.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-2	8/6/2009		168.14	21.17	0.01	146.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-2	3/4/2010		168.14	13.03	--	155.11	18,000	--	9,500	270	510	1,400	350	2,600	<5.0	<5.0	<5.0	<5.0	12	<1,000	1.28	--	(P)
MW-2	9/2/2010		168.14	20.62	--	147.52	58,000	--	11,000	3,600	3,900	16,000	470	<80	<10	<10	<10	<10	14	<2,000	--	--	(NP, y)
MW-2	3/15/2011		168.14	13.70	--	154.44	63,000	--	12,000	2,900	4,100	15,000	500	<800	<100	<100	<100	<100	<100	<50,000	--	--	(P)
MW-2	8/17/2011		168.14	19.31	--	148.83	23,000	--	4,900	620	1,500	4,400	150	<800	<100	<100	<100	<100	<100	<50,000	--	--	(P)
MW-2	2/6/2012		168.14	17.49	--	150.65	26,000	--	6,400	200	1,700	3,400	360	<800	<100	<100	<100	<100(*)	<100	<50,000	--	--	(P)
MW-2	8/21/2012		168.14	20.66	--	147.48	20,000	--	4,900	440	1,400	2,400	220	<800	<100	<100	<100	<100	<100	<50,000	--	--	
MW-2	2/4/2013		168.14	17.24	--	150.90	25,000	--	4,000	1,700	1,600	5,300	130	<800	<100	<100	<100	<100	<100	<50,000	--	--	
MW-2	8/1/2013		168.14	21.10	--	147.04	43,000	--	9,100	630	2,800	9,700	220	<2,000	<100	<100	<100	<100	<100	<50,000	--	--	
MW-2	2/27/2014		168.14	18.65	--	149.49	31,000	--	9,600	180	2,700	6,100	310	<2,000	<100	<100	<100	<100	<100	<50,000	--	--	
MW-2	8/27/2014		168.14	20.78	--	147.36	35,000	--	9,900	230	3,100	5,500	240	<4,000	<100	<100	<100	<100	<100	<100,000	3.24	450	(HC odor)
MW-2	3/27/2015		168.14	18.32	--	149.82	29,000	--	13,000	210	1,400	1,300	140	<4,000	<100	<100	<100	<100	<100	<100,000	2.29	--	(HC odor)
MW-2	8/27/2015		168.14	20.40	--	147.74	22,400	--	8,550	80.3	1,110	444	41.1(J)	416(J)	<1.00	<1.00	<1.00	--	<1.00	<100	6.20	--	(1 liter purged and moderate hydrocarbon odor.)
MW-2	3/28/2016		168.14	13.55	--	154.59	36,500	--	7,360	609	1,350	3,140	118	463	<50.0	<50.0(J3)	<50.0	<50.0	<50.0	<5,000	1.64	--	
MW-3	7/9/1990		--	--	--	--	140	--	5.3	4.6	2	3.8	--	--	--	--	--	--	--	--	--	--	
MW-3	12/21/1990		--	--	--	--	0.19	--	100	6	0.9	27	--	--	--	--	--	--	--	--	--	--	
MW-3	3/7/1991		167.17	17.40	--	149.77	0.4	--	69	22	6.1	57	--	--	--	--	--	--	--	--	--	--	
MW-3	4/1/1991		167.17	13.69	--	153.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	6/27/1991		--	--	--	--	380	--	28	26	13	46	--	--	--	--	--	--	--	--	--	--	
MW-3	9/27/1991		--	--	--	--	0.07	--	7.9	--	0.4	1.1	--	--	--	--	--	--	--	--	--	--	
MW-3	12/18/1991		--	--	--	--	0.26	--	34	24	0.8	28	--	--	--	--	--	--	--	--	--	--	
MW-3	7/3/1992		167.17	19.59	--	147.58	71	--	9.4	0.9	5	13	--	--	--	--	--	--	--	--	--	--	
MW-3	10/5/1992	Dup	167.17	21.22	--	145.95	<50	--	2.2	<0.5	1.5	2.8	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	10/5/1992		167.17	21.22	--	145.95	67	--	5.1	1.1	6.1	8.1	--	--	--	--	--	--	--	--	--	--	
MW-3	1/13/1993		167.17	13.63	--	153.54	830	--	50	34	42	89	--	--	--	--	--	--	--	--	--	--	
MW-3	4/23/1993	Dup	167.17	15.02	--	152.15	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	4/23/1993		167.17	15.02	--	152.15	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-3	7/12/1993		167.17	19.16	--	148.01	250	--	12	4.2	12	16	<5.0	--	--	--	--	--	--	--	--	--	
MW-3	10/21/1993	Dup	167.17	21.81	--	145.36	65	--	7.4	1	6.9	4.2	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	10/21/1993		167.17	21.81	--	145.36	52	--	4.4	1.4	4.7	3.3	<5.0	--	--	--	--	--	--	--	--	--	
MW-3	1/21/1994		167.17	19.94	--	147.23	57	--	3	3.4	3.6	9	<5.0	--	--	--	--	--	--	--	--	--	
MW-3	4/20/1994		167.17	20.24	--	146.93	600	--	26	23	33	88	28.7	--	--	--	--	--	--	--	1.8	--	
MW-3	8/1/1994	Dup	167.17	20.74	--	146.43	120	--	7.7	1.6	5.9	6.7	5.43	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	8/1/1994		167.17	20.74	--	146.43	99	--	6.2	1.1	4.5	5.2	<5.0	--	--	--	--	--	--	--	1.4	--	
MW-3	12/23/1994	Dup	167.17	14.70	--	152.47	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-3	12/23/1994		167.17	14.70	--	152.47	<50	--	<0.5	0.78	<0.5	<0.5	9.8	--	--	--	--	--	--	--	1.7	--	
MW-3	1/26/1995		167.17	12.89	--	154.28	190	--	16	0.5	35	24	--	--	--	--	--	--	--	--	6.6	--	
MW-3	6/8/1995		167.17	19.95	--	147.22	330	--	21	4	34	32	--	--	--	--	--	--	--	--	7	--	
MW-3	8/22/1995		167.17	21.41	--	145.76	150	--	14	<0.50	<0.50	1.6	<5.0	--	--	--	--	--	--	--	6.6	--	
MW-3	10/27/1995		167.17	22.43	--	144.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	10/30/1995		--	--	--	--	51	--	2.4	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	6.9	--	
MW-3	1/25/1996		167.17	14.03	--	153.14	<50	--	<0.50	<0.50	<0.50	<1.0	5.1	--	--	--	--	--	--	--	--	--	
MW-3	4/19/1996		167.17	15.26	--	151.91	460	--	55	4	33	63	<10	--	--	--	--	--	--	--	9.4	--	
MW-3	7/23/1996		167.17	19.19	--	147.98	<50	--	<0.5	<0.5	<0.5	<0.5	<10	--	--	--	--	--	--	--	9.2	--	
MW-3	11/11/1996		167.17	20.24	--	146.93	<250	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	--	--	--	--	--	8.4	--	
MW-3	1/21/1997		167.17	13.09	--	154.08	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	5.4	--	
MW-3	4/29/1997		167.17	18.14	--	149.03	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.3	--	
MW-3	8/21/1997		167.17	19.64	--	147.53	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.9	--	
MW-3	11/5/1997		167.17	19.95	--	147.22	<250	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	--	--	--	--	--	4.5	--	
MW-3	2/3/1998		167.17	10.57	--	156.60	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.7	--	
MW-3	5/28/1998		167.17	14.65	--	152.52	330	--	<2.5	<5.0	<5.0	<5.0	<50	--	--	--	--	--	--	--	4.2	--	
MW-3	12/30/1998		167.17	16.63	--	150.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/2/1999		167.17	13.12	--	154.05	<250	--	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	
MW-3	5/10/1999		167.17	14.21	--	152.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/24/1999		167.17	14.36	--	152.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/3/1999		167.17	19.21	--	147.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	3/1/2000		167.17	15.17	--	152.00	<50	--	<0.5	0.57	<0.5	0.62	<0.5	--	--	--	--	--	--	--	--	--	
MW-3	4/21/2000		167.17	14.88	--	152.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	7/31/2000		167.17	15.29	--	151.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/20/2000		167.17	17.31	--	149.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/18/2001		167.17	12.85	--	154.32	160	--	1.95	1.31	10.2	9.09	1	--	--	--	--	--	--	--	--	--	
MW-3	6/7/2001		167.17	18.00	--	149.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	9/5/2001		167.17	20.32	--	146.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/30/2001		167.17	16.94	--	150.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/20/2002		167.17	14.84	--	152.33	86	--	<0.5	0.845	6.58	5.75	<0.5	--	--	--	--	--	--	--	--	--	
MW-3	6/20/2002		167.17	18.40	--	148.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	9/11/2002		167.17	20.06	--	147.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/12/2002		167.17	19.84	--	147.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	1/27/2003		167.17	14.83	--	152.34	850	--	20	9.7	24	45	0.76	--	--	--	--	--	--	--	--	--	
MW-3	1/29/2003		--	--	--	--	--	--	--	--	--	--	0.76	<20	<50	<50	<50	<50	<50	<40	--	--	
MW-3	5/22/2003		167.17	15.60	--	151.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	7/28/2003		167.17	20.12	--	147.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/18/2003		167.17	19.15	--	148.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/23/2004		167.17	13.53	--	153.64	160	--	<0.50	1.1	9.6	12	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-3	5/4/2004		167.17	18.61	--	148.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/4/2004		167.17	19.21	--	147.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/10/2004		167.17	17.48	--	149.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/15/2005		167.17	14.31	--	152.86	500	--	7.8	1.8	9.2	9.6	1.7	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-3	5/16/2005		167.17	13.11	--	154.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/17/2005		167.17	18.53	--	148.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/18/2005		167.17	19.34	--	147.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/7/2006		167.17	11.64	--	155.53	65	--	<0.50	<0.50	1.4	2.3	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	--	--	
MW-3	5/19/2006		167.17	14.88	--	152.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/23/2006		167.17	19.43	--	147.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/15/2006		167.17	19.22	--	147.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/14/2007		167.17	13.80	--	153.37	200	--	1.1	<0.50	5.9	3.2	3.8	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	0.68	--	
MW-3	5/22/2007		167.17	16.80	--	150.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/15/2007		167.17	19.87	--	147.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/8/2007		167.17	19.27	--	147.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/20/2008		167.17	13.58	--	153.59	240	--	1.1	<0.50	0.99	0.79	2.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<100	2.58	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-3	5/7/2008		167.17	18.32	--	148.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/20/2008		167.17	20.29	--	146.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/17/2008		167.17	19.35	--	147.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/25/2009		167.17	11.77	--	155.40	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<300	3.45	--	
MW-3	5/28/2009		167.17	17.02	--	150.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/6/2009		167.17	19.87	--	147.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	3/4/2010		167.17	10.79	--	156.38	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<100	3.16	--	(P)
MW-3	9/2/2010		167.17	19.32	--	147.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	3/15/2011		167.17	11.77	--	155.40	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-3	8/17/2011		167.17	17.98	--	149.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/6/2012		167.17	15.92	--	151.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/21/2012		167.17	19.42	--	147.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(slight odor)
MW-3	2/4/2013		167.17	15.75	--	151.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/1/2013		167.17	19.78	--	147.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/27/2014		167.17	16.95	--	150.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/27/2014		167.17	19.64	--	147.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	3/27/2015		167.17	17.16	--	150.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/27/2015		167.17	19.40	--	147.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Gauge only)
MW-3	3/28/2016		167.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Not Sampled)
MW-4	12/21/1990		--	--	--	--	--	--	--	--	--	0.8	--	--	--	--	--	--	--	--	--	--	
MW-4	3/7/1991		170.36	20.72	--	149.64	--	--	2.2	3.8	1.5	2.8	--	--	--	--	--	--	--	--	--	--	
MW-4	4/1/1991		170.36	17.49	--	152.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	6/27/1991		--	--	--	--	--	--	6.3	1.8	0.4	1	--	--	--	--	--	--	--	--	--	--	
MW-4	7/3/1992		170.36	22.16	--	148.20	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-4	10/5/1992		170.36	23.38	--	146.98	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-4	1/13/1993		170.36	17.58	--	152.78	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-4	4/23/1993		170.36	15.72	--	154.64	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-4	7/12/1993		170.36	21.74	--	148.62	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
MW-4	10/21/1993		170.36	23.84	--	146.52	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
MW-4	1/21/1994		170.36	22.42	--	147.94	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
MW-4	4/20/1994		170.36	22.66	--	147.70	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	2.2	--	
MW-4	8/1/1994		170.36	23.01	--	147.35	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	1.9	--	
MW-4	12/23/1994		170.36	17.03	--	153.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	1/26/1995		170.36	17.42	--	152.94	<50	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	7.5	--	
MW-4	6/8/1995		170.36	21.55	--	148.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/22/1995		170.36	23.47	--	146.89	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	6.4	--	
MW-4	10/27/1995		170.36	24.50	--	145.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	1/25/1996		170.36	18.74	--	151.62	<50	--	<0.50	<0.50	<0.50	<1.0	58	--	--	--	--	--	--	--	--	--	
MW-4	4/19/1996		170.36	18.63	--	151.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/23/1996		170.36	22.56	--	147.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/11/1996		170.36	23.63	--	146.73	<50	--	<1.0	<1.0	<1.0	<1.0	34	--	--	--	--	--	--	--	8.2	--	
MW-4	1/21/1997		170.36	16.59	--	153.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	4/29/1997		170.36	21.43	--	148.93	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.7	--	
MW-4	8/21/1997		170.36	22.91	--	147.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/5/1997		170.36	22.34	--	148.02	60	--	<0.5	<1.0	<1.0	<1.0	76	--	--	--	--	--	--	--	4.9	--	
MW-4	2/3/1998		170.36	12.26	--	158.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	5/28/1998		170.36	18.50	--	151.86	70	--	<0.5	<1.0	<1.0	<1.0	160	--	--	--	--	--	--	--	4.2	--	
MW-4	12/30/1998		170.36	19.69	--	150.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/2/1999		170.36	18.26	--	152.10	70	--	<1.0	<1.0	<1.0	<1.0	130	--	--	--	--	--	--	--	--	--	
MW-4	5/10/1999		170.36	17.86	--	152.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/24/1999		170.36	17.93	--	152.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/3/1999		170.36	22.78	--	147.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/1/2000		170.36	18.04	--	152.32	<50	--	<0.5	0.67	<0.5	0.7	110	--	--	--	--	--	--	--	--	--	
MW-4	4/21/2000		170.36	17.36	--	153.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/31/2000		170.36	17.83	--	152.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/20/2000		170.36	18.91	--	151.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/18/2001		170.36	17.72	--	152.64	88	--	<0.5	<0.5	<0.5	<0.5	97.3	--	--	--	--	--	--	--	--	--	
MW-4	6/7/2001		170.36	20.23	--	150.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/5/2001		170.36	22.76	--	147.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/30/2001		170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/20/2002		170.36	19.32	--	151.04	76	--	<0.5	<0.5	<0.5	<1.0	81	--	--	--	--	--	--	--	--	--	
MW-4	6/20/2002		170.36	20.71	--	149.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	9/11/2002		170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/12/2002		170.36	22.22	--	148.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	1/29/2003		170.36	19.80	--	150.56	100	--	<0.5	<0.5	<0.5	<0.5	66	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<40	--	--	
MW-4	5/22/2003		170.36	19.35	--	151.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	7/28/2003		170.36	22.18	--	148.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/18/2003		170.36	21.65	--	148.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/23/2004		170.36	17.53	--	152.83	75	--	<0.50	<0.50	<0.50	<0.50	65	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-4	5/4/2004		170.36	20.62	--	149.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/4/2004		170.36	21.30	--	149.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/10/2004		170.36	20.65	--	149.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/15/2005		170.36	18.91	--	151.45	<50	--	<0.50	<0.50	<0.50	<0.50	62	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-4	5/16/2005		170.36	17.34	--	153.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/17/2005		170.36	21.31	--	149.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/18/2005		170.36	21.67	--	148.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/7/2006		170.36	16.74	--	153.62	100	--	<0.50	<0.50	1.0	3.0	29	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	--	--	
MW-4	5/19/2006		170.36	18.22	--	152.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/23/2006		170.36	20.95	--	149.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/15/2006		170.36	22.21	--	148.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/14/2007		170.36	18.25	--	152.11	<50	--	<0.50	<0.50	<0.50	<0.50	61	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	0.95	--	
MW-4	5/22/2007		170.36	20.16	--	150.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/15/2007		170.36	22.34	--	148.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/8/2007		170.36	21.86	--	148.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/20/2008		170.36	17.74	--	152.62	<50	--	<0.50	<0.50	<0.50	<0.50	36	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<100	2.13	--	
MW-4	5/7/2008		170.36	21.38	--	148.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/20/2008		170.36	22.44	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/17/2008		170.36	22.20	--	148.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/25/2009		170.36	16.81	--	153.55	<50	--	<0.50	<0.50	<0.50	<0.50	26	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<300	2.80	--	
MW-4	5/28/2009		170.36	20.37	--	149.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/6/2009		170.36	22.46	--	147.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-4	3/4/2010		170.36	17.11	--	153.25	<50	--	<0.50	<0.50	<0.50	<1.0	34	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<100	0.63	--	(P)
MW-4	9/2/2010		170.36	20.63	--	149.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/15/2011		170.36	16.47	--	153.89	<50	--	<0.50	<0.50	<0.50	<1.0	26	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-4	8/17/2011		170.36	20.94	--	149.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/6/2012		170.36	19.65	--	150.71	<50	--	<0.50	<0.50	<0.50	<1.0	32	<4.0	<0.50	<0.50	<0.50	<0.50(*)	<0.50	<250	--	--	(P)
MW-4	8/21/2012		170.36	22.00	--	148.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/4/2013		170.36	19.43	--	150.93	<50	--	<0.50	<0.50	<0.50	<1.0	34	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-4	8/1/2013		170.36	22.43	--	147.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/27/2014		170.36	20.64	--	149.72	<50	--	<0.50	<0.50	<0.50	<1.0	24	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-4	8/27/2014		170.36	22.24	--	148.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	3/27/2015		170.36	20.23	--	150.13	<50	--	<0.50	<0.50	<0.50	<1.0	22	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<500	3.50	--	
MW-4	8/27/2015		170.36	21.87	--	148.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Gauge only)
MW-4	3/28/2016		170.36	16.29	--	154.07	<100	--	<1.00	<5.00	<1.00	<3.00	15.0	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	2.27	--	
MW-5	7/9/1990		--	--	--	--	280	--	200	210	46	290	--	--	--	--	--	--	--	--	--	--	
MW-5	12/21/1990		--	--	--	--	0.69	--	300	34	8.4	39	--	--	--	--	--	--	--	--	--	--	
MW-5	3/7/1991		165.14	16.60	--	148.54	--	--	17	0.9	0.7	1.6	--	--	--	--	--	--	--	--	--	--	
MW-5	4/1/1991		165.14	11.99	--	153.15	800	--	250	54	11	60	--	--	--	--	--	--	--	--	--	--	
MW-5	6/27/1991		--	--	--	--	330	--	120	10	12	8	--	--	--	--	--	--	--	--	--	--	
MW-5	9/27/1991		--	--	--	--	0.73	--	230	16	20	22	--	--	--	--	--	--	--	--	--	--	
MW-5	7/3/1992		165.14	18.65	--	146.49	150	--	36	<0.5	<0.5	1.1	--	--	--	--	--	--	--	--	--	--	
MW-5	10/5/1992		165.14	20.32	--	144.82	270	--	79	4	1.7	2.9	--	--	--	--	--	--	--	--	--	--	
MW-5	1/13/1993		165.14	13.03	--	152.11	180	--	59	6	1.8	7.6	--	--	--	--	--	--	--	--	--	--	
MW-5	4/23/1993		165.14	13.51	--	151.63	8,700	--	440	96	35	136	--	--	--	--	--	--	--	--	--	--	
MW-5	7/12/1993		165.14	18.06	--	147.08	250	--	57	2.9	2.1	6	<5.0	--	--	--	--	--	--	--	--	--	
MW-5	10/21/1993		165.14	20.41	--	144.73	210	--	82	1.5	<0.5	1.4	--	--	--	--	--	--	--	--	--	--	
MW-5	1/21/1994		165.14	18.86	--	146.28	110	--	36	1.2	<0.5	0.7	<5.0	--	--	--	--	--	--	--	--	--	
MW-5	4/20/1994		165.14	17.30	--	147.84	690	--	230	4.5	1.6	11	21.2	--	--	--	--	--	--	--	1.3	--	
MW-5	8/1/1994		165.14	17.53	--	147.61	170	--	44	1.6	0.9	2.7	<5.0	--	--	--	--	--	--	--	0.9	--	
MW-5	12/23/1994		165.14	11.63	--	153.51	630	--	180	1.9	0.66	1.9	7.81	--	--	--	--	--	--	--	1.4	--	
MW-5	1/26/1995		165.14	11.25	--	153.89	160	--	68	<0.5	<0.5	22	--	--	--	--	--	--	--	--	5.9	--	
MW-5	6/8/1995	Dup	165.14	16.80	--	148.34	1,700	--	560	51	55	170	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-5	6/8/1995		165.14	16.80	--	148.34	2,000	--	630	58	61	180	--	--	--	--	--	--	--	--	6.5	--	
MW-5	8/22/1995		165.14	19.02	--	146.12	3,700	--	1,100	18	27	59	<130	--	--	--	--	--	--	--	7.3	--	
MW-5	10/27/1995		165.14	20.94	--	144.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	10/30/1995		--	--	--	--	6,500	--	2,200	55	180	270	<250	--	--	--	--	--	--	--	7.5	--	
MW-5	1/25/1996	Dup	165.14	13.30	--	151.84	540	--	37	0.66	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	--	--	(Dup)
MW-5	1/25/1996		165.14	13.30	--	151.84	590	--	37	0.7	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	--	--	
MW-5	4/19/1996		165.14	13.63	--	151.51	1,500	--	470	38	49	210	<50	--	--	--	--	--	--	--	8.1	--	
MW-5	7/23/1996		165.14	17.61	--	147.53	140	--	4.6	<0.5	<0.5	<0.5	<10	--	--	--	--	--	--	--	8	--	
MW-5	11/11/1996		165.14	18.70	--	146.44	140	--	40	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	7.9	--	
MW-5	1/21/1997		165.14	11.63	--	153.51	730	--	300	<5.0	7.8	26	<50	--	--	--	--	--	--	--	5	--	
MW-5	4/29/1997		165.14	16.74	--	148.40	340	--	530	<5.0	<5.0	<5.0	<50	--	--	--	--	--	--	--	4.8	--	
MW-5	8/21/1997		165.14	18.26	--	146.88	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.9	--	
MW-5	11/5/1997		165.14	18.84	--	146.30	120	--	13	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.4	--	
MW-5	2/3/1998		165.14	9.49	--	155.65	<50	--	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.3	--	
MW-5	5/28/1998		165.14	13.57	--	151.57	4,900	--	1,500	34	180	311	<10	--	--	--	--	--	--	--	4.1	--	
MW-5	12/30/1998		165.14	14.65	--	150.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	2/2/1999		165.14	12.56	--	152.58	100	--	<1.0	<1.0	<1.0	<1.0	9.1	--	--	--	--	--	--	--	--	--	
MW-5	5/10/1999		165.14	13.36	--	151.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	8/24/1999		165.14	13.50	--	151.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	11/3/1999		165.14	18.48	--	146.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	3/1/2000		165.14	9.59	--	155.55	<50	--	<0.5	0.58	<0.5	0.54	2.9	--	--	--	--	--	--	--	--	--	
MW-5	4/21/2000		165.14	13.52	--	151.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	7/31/2000		165.14	14.04	--	151.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	11/20/2000		165.14	15.89	--	149.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	2/18/2001		165.14	11.88	--	153.26	560	--	161	2.38	6.11	13	5.67	--	--	--	--	--	--	--	--	--	
MW-5	6/7/2001		165.14	15.30	--	149.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	9/5/2001		165.14	19.32	--	145.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	11/30/2001		165.14	17.44	--	147.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	2/20/2002		165.14	13.88	--	151.26	4,200	--	940	18.7	98.2	176	55.6	--	--	--	--	--	--	--	--	--	
MW-5	6/20/2002		165.14	16.20	--	148.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	9/11/2002		165.14	19.15	--	145.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	11/12/2002		165.14	19.01	--	146.13	390	--	55	0.89	3.4	3.5	210	--	--	--	--	--	--	--	--	--	
MW-5	1/29/2003		165.14	16.33	--	148.81	7,900	--	1,400	34	220	350	82	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<400	--	--	
MW-5	5/22/2003		165.14	14.35	--	150.79	9,900	--	2,300	91	400	690	<50	<2,000	--	<50	<50	--	<50	<10,000	--	--	
MW-5	7/28/2003		165.14	18.90	--	146.24	3,200	--	690	14	81	100	120	<400	<10	<10	<10	<10	<10	<2,000	--	--	
MW-5	2/23/2004		165.14	12.21	--	152.93	7,500	--	1,500	100	190	350	100	<1,000	38	<25	<25	<25	<25	<5,000	--	--	
MW-5	5/4/2004		165.14	17.12	--	148.02	5,900	--	1,500	57	200	280	42	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-5	8/4/2004		165.14	19.05	--	146.09	<2,500	--	<25	<25	<25	<25	390	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-5	11/10/2004		165.14	16.95	--	148.19	870	--	80	<5.0	<5.0	<5.0	530	<200	<5.0	<5.0	<5.0	<5.0	5.5	<1,000	--	--	
MW-5	2/15/2005		165.14	12.75	--	152.39	1,600	--	330	8.0	37	67	260	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	
MW-5	5/16/2005		165.14	15.46	--	149.68	<500	--	<5.0	<5.0	<5.0	<5.0	370	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	
MW-5	8/17/2005		165.14	17.00	--	148.14	7,000	--	1,000	17	110	130	51	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	
MW-5	11/18/2005		165.14	18.33	--	146.81	1,900	--	91	<5.0	33	29	340	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	
MW-5	2/7/2006		165.14	10.27	--	154.87	2,100	--	590	9.6	86	110	200	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--	--	
MW-5	5/19/2006		165.14	13.08	--	152.06	3,200	--	720	9.7	150	170	44	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--	--	
MW-5	8/23/2006		165.14	17.02	--	148.12	1,400	--	69	<5.0	20	24	230	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--	--	
MW-5	11/15/2006		165.14	18.30	--	146.84	1,100	--	24	<2.5	10	8.6	490	<100	<2.5	<2.5	<2.5	<2.5	4.2	<1,500	0.85	--	
MW-5	2/14/2007		165.14	13.16	--	151.98	680	--	110	<2.5	16	11	420	<100	<2.5	<2.5	<2.5	<2.5	3.6	<1,500	2.54	--	
MW-5	5/22/2007		165.14	15.42	--	149.72	2,800	--	660	8.8	74	100	26	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	1.41	--	
MW-5	8/15/2007		165.14	18.80	--	146.34	2,800	--	50	<10	26	29	280	<400	<10	<10	<10	<10	<10	<6,000	3.81	--	
MW-5	11/8/2007		165.14	18.55	(Sheen)	146.59	3,800	--	77	<2.5	46	35	270	310	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	1.08	--	
MW-5	2/20/2008		165.14	12.21	--	152.93	2,500	--	530	<5.0	75	62	43	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	2.01	--	
MW-5	5/7/2008		165.14	16.91	--	148.23	6,700	--	1,800	29	270	360	30	<200	<10	<10	<10	<10	<10	<6,000	2.45	--	
MW-5	8/20/2008		165.14	19.45	--	145.69	300	--	22	<2.0	8.5	5.3	260	270	<2.0	<2.0	<2.0	<2.0	3.0	<1,200	5.57	--	
MW-5	2/25/2009		165.14	11.12	--	154.02	140	--	6.4	<0.50	2.4	3.1	68	110	<0.50	<0.50	<0.50	<0.50	0.62	<300	4.38	--	
MW-5	5/28/2009		165.14	15.70	--	149.44	3,800	--	790	9.5	140	110	11	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<600	0.04	--	
MW-5	8/6/2009		165.14	18.84	(Sheen)	146.30	78	--	<5.0	<5.0	<5.0	<5.0	190	340	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	0.06	--	
MW-5	3/4/2010		165.14	10.02	--	155.12	1,200	--	420	5.5	69	58	15	38	<0.50	<0.50	<0.50	<0.50	<0.50	<100	0.66	--	(P)
MW-5	9/2/2010		165.14	16.24	--	148.90	200	--	69	1.3	3.2	7.3	13	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	(NP,y)
MW-5	3/15/2011		165.14	11.36	--	153.78	1,700	--	410	7.9	88	80	5.9	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-5	8/17/2011		165.14	16.62	--	148.52	1,900	--	460	7.6	44	51	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	(P)
MW-5	2/6/2012		165.14	14.36	--	150.78	580	--	140	<5.0	9.2	<10	9.6	<40	<5.0	<5.0	<5.0	<5.0(*)	<5.0	<2,500	--	--	(P)
MW-5	8/21/2012		165.14	18.22	--	146.92	290	--	23	0.75	4.8	4.3	17	200	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-5	2/4/2013		165.14	13.99	--	151.15	1,400	--	230	2.7	55	34	3.1	13	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-5	8/1/2013		165.14	18.64	--	146.50	<50	--	<0.50	<0.50	<0.50	<1.0	27	250	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-5	2/27/2014		165.14	16.03	--	149.11	83	--	3.5	<0.50	<0.50	<1.0	12	77	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-5	8/27/2014		165.14	18.28	--	146.86	430	--	43	0.59	2.8	1.2	9.1	210	<0.50	<0.50	<0.50	<0.50	<0.50	<500	3.08	<1.0	(HC odor)
MW-5	3/27/2015		165.14	15.56	--	149.58	2,200	--	370	5.1	74	37	4.2	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<500	3.08	--	(HC odor)
MW-5	8/27/2015		165.14	17.96	--	147.18	7,370	--	803	8.60(J)	62.2	75.8	8.63(J)	126	<10.0	<10.0	<10.0	--	<10.0	<1,000	3.37	--	(1 liter purged)
MW-5	3/28/2016		165.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Not Sampled, covered by vehicle)
MW-6	12/21/1990		--	--	--	--	0.17	--	2.6	7	4.9	26	--	--	--	--	--	--	--	--	--	--	
MW-6	4/1/1991		165.40	11.79	--	153.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	12/18/1991		--	--	--	--	--	--	1.3	22	--	2.7	--	--	--	--	--	--	--	--	--	--	
MW-6	7/3/1992		165.40	17.77	--	147.63	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-6	10/5/1992		165.40	19.46	--	145.94	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-6	1/13/1993		165.40	11.34	--	154.06	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-6	4/23/1993		165.40	12.92	--	152.48	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-6	7/12/1993		165.40	17.36	--	148.04	<50	--	<0.5	<0.5	<0.5	0.7	<5.0	--	--	--	--	--	--	--	--	--	
MW-6	10/21/1993		165.40	19.98	--	145.42	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-6	1/21/1994		165.40	18.10	--	147.30	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
MW-6	4/20/1994		165.40	18.68	--	146.72	<50	--	<0.5	<0.5	<0.5	<0.5	17.4	--	--	--	--	--	--	--	2	--	
MW-6	8/1/1994		165.40	18.90	--	146.50	<50	--	<0.5	<0.5	<0.5	<0.5	8.66	--	--	--	--	--	--	--	1.5	--	
MW-6	12/23/1994		165.40	12.94	--	152.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	1/26/1995		165.40	10.46	--	154.94	<50	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	7.3	--	
MW-6	6/8/1995		165.40	16.84	--	148.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/22/1995		165.40	19.48	--	145.92	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	6.7	--	
MW-6	10/27/1995		165.40	20.39	--	145.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	1/25/1996		165.40	12.24	--	153.16	<50	--	<0.50	<0.50	<0.50	<1.0	9.9	--	--	--	--	--	--	--	--	--	
MW-6	4/19/1996		165.40	13.90	--	151.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	7/23/1996		165.40	17.83	--	147.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/11/1996		165.40	18.90	--	146.50	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	7.7	--	
MW-6	1/21/1997		165.40	11.97	--	153.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	4/29/1997		165.40	17.04	--	148.36	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.5	--	
MW-6	8/21/1997		165.40	18.58	--	146.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/5/1997		165.40	19.17	--	146.23	70	--	<0.5	<1.0	<1.0	<1.0	85	--	--	--	--	--	--	--	4.3	--	
MW-6	2/3/1998		165.40	9.87	--	155.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/28/1998		165.40	13.38	--	152.02	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	3.7	--	
MW-6	12/30/1998		165.40	14.45	--	150.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/2/1999		165.40	18.29	--	147.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/10/1999		165.40	17.49	--	147.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/24/1999		165.40	17.61	--	147.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/3/1999		165.40	16.26	--	149.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/1/2000		165.40	17.43	--	147.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	4/21/2000		165.40	13.32	--	152.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	7/31/2000		165.40	13.46	--	151.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/20/2000		165.40	14.78	--	150.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/18/2001		165.40	11.33	--	154.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	6/7/2001		165.40	16.36	--	149.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/5/2001		165.40	18.61	--	146.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/30/2001		165.40	15.20	--	150.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/20/2002		165.40	12.74	--	152.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	6/20/2002		165.40	16.68	--	148.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	9/11/2002		165.40	18.38	--	147.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/12/2002		165.40	18.78	--	146.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	1/29/2003		165.40	14.45	--	150.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/22/2003		165.40	14.36	--	151.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	7/28/2003		165.40	18.43	--	146.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/18/2003		165.40	17.48	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/23/2004		165.40	11.54	--	153.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/4/2004		165.40	16.58	--	148.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/4/2004		165.40	18.12	--	147.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/10/2004		165.40	15.75	--	149.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/15/2005		165.40	12.50	--	152.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	5/16/2005		165.40	11.51	--	153.89	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	--	
MW-6	8/17/2005		165.40	16.85	--	148.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/7/2006		165.40	9.93	--	155.47	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	--	--	
MW-6	8/23/2006		165.40	16.35	--	149.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/15/2006		165.40	17.42	--	147.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/14/2007		165.40	12.03	--	153.37	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<300	1.07	--	
MW-6	5/22/2007		165.40	15.11	--	150.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/15/2007		165.40	18.08	--	147.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	11/8/2007		165.40	17.79	--	147.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/20/2008		165.40	11.81	--	153.59	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<100	1.29	--	
MW-6	5/7/2008		165.40	16.75	--	148.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/25/2009		165.40	9.99	--	155.41	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<300	2.39	--	
MW-6	8/6/2009		165.40	18.33	--	147.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/4/2010		165.40	9.11	--	156.29	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<100	0.88	--	(P)
MW-6	9/2/2010		165.40	17.80	--	147.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/15/2011		165.40	10.08	--	155.32	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-6	8/17/2011		165.40	16.50	--	148.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/6/2012		165.40	14.44	--	150.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/21/2012		165.40	17.91	--	147.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/4/2013		165.40	14.13	--	151.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/1/2013		165.40	18.27	--	147.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/27/2014		165.40	15.33	--	150.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/27/2014		165.40	19.12	--	146.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	3/27/2015		165.40	15.58	--	149.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/27/2015		165.40	17.92	--	147.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Gauge only)
MW-6	3/28/2016		165.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Not Sampled)

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-7	3/7/1991		167.61	19.04	--	148.57	--	--	--	0.4	0.3	2.4	--	--	--	--	--	--	--	--	--	--	
MW-7	4/1/1991		167.61	15.18	--	152.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	6/27/1991		--	--	--	--	70	--	17	4	0.8	2.2	--	--	--	--	--	--	--	--	--	--	
MW-7	9/27/1991		--	--	--	--	--	--	0.4	--	--	0.4	--	--	--	--	--	--	--	--	--	--	
MW-7	12/18/1991		--	--	--	--	--	--	0.7	2.9	0.8	3.3	--	--	--	--	--	--	--	--	--	--	
MW-7	7/3/1992		167.61	20.28	--	147.33	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-7	10/5/1992		167.61	21.56	--	146.05	<50	--	<0.5	<0.5	<0.5	1.5	--	--	--	--	--	--	--	--	--	--	
MW-7	1/13/1993		167.61	15.41	--	152.20	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-7	4/23/1993		167.61	15.84	--	151.77	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-7	7/12/1993		167.61	19.84	--	147.77	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
MW-7	10/21/1993		167.61	21.61	--	146.00	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	
MW-7	1/21/1994	Dup	167.61	20.49	--	147.12	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-7	1/21/1994		167.61	20.49	--	147.12	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	--	--	
MW-7	4/20/1994		167.61	20.54	--	147.07	<50	--	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	1.5	--	
MW-7	8/1/1994		167.61	20.99	--	146.62	<50	--	0.7	<0.5	<0.5	<0.5	<5.0	--	--	--	--	--	--	--	1.9	--	
MW-7	12/23/1994		167.61	15.00	--	152.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	1/26/1995		167.61	14.69	--	152.92	<50	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	7	--	
MW-7	6/8/1995		167.61	19.87	--	147.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/22/1995		167.61	21.49	--	146.12	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	6.4	--	
MW-7	10/27/1995		167.61	22.53	--	145.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	1/25/1996		167.61	17.21	--	150.40	<50	--	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	--	--	--	--	--	--	--	
MW-7	4/19/1996		167.61	17.09	--	150.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	7/23/1996		167.61	21.02	--	146.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/11/1996		167.61	22.03	--	145.58	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	7.8	--	
MW-7	1/21/1997		167.61	15.06	--	152.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	4/29/1997		167.61	20.11	--	147.50	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.4	--	
MW-7	8/21/1997		167.61	21.59	--	146.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/5/1997		167.61	20.05	--	147.56	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.4	--	
MW-7	2/3/1998		167.61	9.97	--	157.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	5/28/1998		167.61	13.52	--	154.09	<50	--	<0.5	<1.0	<1.0	<1.0	<10	--	--	--	--	--	--	--	4.3	--	
MW-7	12/30/1998		167.61	18.33	--	149.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/2/1999		167.61	12.33	--	155.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	5/10/1999		167.61	13.52	--	154.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/24/1999		167.61	14.01	--	153.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/3/1999		167.61	19.91	--	147.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	3/1/2000		167.61	19.89	--	147.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	4/21/2000		167.61	17.94	--	149.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	7/31/2000		167.61	17.33	--	150.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/20/2000		167.61	18.41	--	149.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/18/2001		167.61	15.13	--	152.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	6/7/2001		167.61	18.75	--	148.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	9/5/2001		167.61	20.48	--	147.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/30/2001		167.61	20.11	--	147.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/20/2002		167.61	18.40	--	149.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	6/20/2002		167.61	18.62	--	148.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	9/11/2002		167.61	20.05	--	147.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/12/2002		167.61	21.13	--	146.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	1/29/2003		167.61	19.10	--	148.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	5/22/2003		167.61	18.83	--	148.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	7/28/2003		167.61	19.88	--	147.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/18/2003		167.61	20.50	--	147.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/23/2004		168.08	15.92	--	152.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	5/4/2004		168.08	18.86	--	149.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/4/2004		168.08	19.10	--	148.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/10/2004		168.08	20.25	--	147.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/15/2005		168.08	16.37	--	151.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/17/2005		168.08	19.74	--	148.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/18/2005		168.08	20.82	--	147.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/7/2006		168.08	14.26	--	153.82	<500	--	<5.0	<5.0	<5.0	<5.0	270	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--	--	
MW-7	5/19/2006		168.08	16.51	--	151.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/23/2006		168.08	20.30	--	147.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/15/2006		168.08	20.85	--	147.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/14/2007		168.08	16.57	--	151.51	520	--	<5.0	<5.0	<5.0	<5.0	740	<200	<5.0	<5.0	<5.0	<5.0	9.6	<3,000	3.08	--	
MW-7	5/22/2007		168.08	18.40	--	149.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/15/2007		168.08	20.85	--	147.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/8/2007		168.08	20.41	--	147.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/20/2008		168.08	15.90	--	152.18	<50	--	<0.50	<0.50	<0.50	<0.50	700	13	0.60	<0.50	<0.50	<0.50	12	<100	4.34	--	
MW-7	5/7/2008		168.08	19.41	--	148.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/20/2008		168.08	21.34	--	146.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	11/17/2008		168.08	20.54	--	147.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/25/2009		168.08	14.89	--	153.19	130	--	<20	<20	<20	<20	540	<400	<20	<20	<20	<20	<20	<12,000	4.28	--	
MW-7	5/28/2009		168.08	18.57	--	149.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/6/2009		168.08	20.83	--	147.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	3/4/2010		168.08	14.02	--	154.06	430	--	<0.50	<0.50	<0.50	<1.0	920	4.0	0.74	<0.50	<0.50	<0.50	17	<100	3.30	--	(P)
MW-7	9/2/2010		168.08	20.43	--	147.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	3/15/2011		168.08	14.86	--	153.22	<1,000	--	<0.50	<0.50	<0.50	<1.0	990	130	0.81	<0.50	<0.50	<0.50	17	<250	--	--	(P)
MW-7	8/17/2011		168.08	19.01	--	149.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/6/2012		168.08	18.20	--	149.88	<50	--	<0.50	<0.50	<0.50	<1.0	22	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	(P)
MW-7	8/21/2012		168.08	20.29	--	147.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/4/2013		168.08	17.60	--	150.48	<500	--	<0.50	<0.50	<0.50	<1.0	290	<4.0	<0.50	<0.50	<0.50	<0.50	6.4	<250	--	--	
MW-7	8/1/2013		168.08	20.68	--	147.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/27/2014		168.08	18.86	--	149.22	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	
MW-7	8/27/2014		168.08	19.68	--	148.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	3/27/2015		168.08	18.09	--	149.99	<50	--	<0.50	<0.50	<0.50	<1.0	240	<20	<0.50	<0.50	<0.50	<0.50	3.3	<500	3.42	--	
MW-7	8/27/2015		168.08	19.59	--	148.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(Gauge only)
MW-7	3/28/2016		168.08	13.92	--	154.16	222	--	<1.00	<5.00	<1.00	<3.00	458	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	7.00	<100	2.51	--	
MW-8	3/7/1991		165.74	16.72	--	149.02	2.7	--	780	450	64	310	--	--	--	--	--	--	--	--	--	--	
MW-8	4/1/1991		165.74	12.54	--	153.20	15,000	--	3,600	2,600	410	1,900	--	--	--	--	--	--	--	--	--	--	
MW-8	6/27/1991		--	--	--	--	12,000	--	3,400	1,100	240	750	--	--	--	--	--	--	--	--	--	--	
MW-8	9/27/1991		--	--	--	--	41	--	5,700	5,200	1,100	4,300	--	--	--	--	--	--	--	--	--	--	
MW-8	12/18/1991		--	--	--	--	3.2	--	990	150	120	250	--	--	--	--	--	--	--	--	--	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-8	7/3/1992		165.74	18.78	--	146.96	72,000	--	19,000	32,000	3,000	15,000	--	--	--	--	--	--	--	--	--	--	
MW-8	10/5/1992		165.74	20.48	--	145.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	1/13/1993		165.74	12.87	--	152.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	4/23/1993		165.74	13.90	--	151.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	7/12/1993		165.74	18.30	--	147.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	10/21/1993		165.74	21.91	--	142.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	1/21/1994		165.74	19.12	--	146.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	4/20/1994		165.74	19.28	--	146.46	26,000	--	1,700	4,100	960	4,000	632	--	--	--	--	--	--	--	1.1	--	
MW-8	12/23/1994		165.74	13.81	--	151.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	6/8/1995		165.74	17.82	--	147.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	8/22/1995		165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	10/27/1995		165.74	20.47	--	145.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	1/25/1996		165.74	13.35	--	152.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	4/19/1996		165.74	14.40	--	151.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	7/23/1996		165.74	18.35	--	147.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/11/1996		165.74	19.41	--	146.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	1/21/1997		165.74	12.29	--	153.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	8/21/1997		165.74	19.61	--	146.13	240,000	--	1,100	9,300	4,100	31,100	<1,000	--	--	--	--	--	--	--	5.2	--	
MW-8	11/5/1997		165.74	19.45	--	146.29	57,000	--	790	2,700	2,300	15,200	<1,000	--	--	--	--	--	--	--	5	--	
MW-8	2/3/1998		165.74	9.33	--	156.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	2/4/1998		--	--	--	--	94,000	--	570	1,500	2,100	15,200	<2,500	--	--	--	--	--	--	--	5.5	--	
MW-8	12/30/1998		165.74	15.48	--	150.26	120,000	--	460	2,300	2,200	15,000	150	--	--	--	--	--	--	--	--	--	
MW-8	2/2/1999		165.74	18.29	--	147.45	82,000	--	450	2,200	3,700	26,000	<500	--	--	--	--	--	--	--	--	--	
MW-8	5/10/1999		165.74	15.62	--	150.12	28,000	--	740	1,800	1,100	5,800	<25	--	--	--	--	--	--	--	--	--	
MW-8	8/24/1999		165.74	18.41	--	147.33	75,000	--	530	1,400	3,300	21,000	150	--	--	--	--	--	--	--	--	--	
MW-8	11/3/1999		165.74	18.71	--	147.03	70,000	--	600	1,300	3,600	20,500	750	--	--	--	--	--	--	--	--	--	
MW-8	3/1/2000		165.74	19.37	--	146.37	27,000	--	1,600	1,200	2,600	6,600	120	--	--	--	--	--	--	--	--	--	
MW-8	11/20/2000		165.74	17.42	--	148.32	1,300,000	--	1,400	1,700	20,000	16,000	5,700	--	--	--	--	--	--	--	--	--	
MW-8	9/5/2001		165.74	21.45	0.04	144.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/30/2001		165.74	18.31	--	147.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	2/20/2002		165.74	14.02	--	151.72	20,000	--	163	114	403	3,810	80.4	--	--	--	--	--	--	--	--	--	
MW-8	6/20/2002		165.74	17.56	--	148.18	28,000	--	466	141	962	5,850	2,520	--	--	--	--	--	--	--	--	--	
MW-8	9/11/2002		165.74	19.45	--	146.29	190,000	--	1,500	670	4,500	23,000	1,200	--	--	--	--	--	--	--	--	--	
MW-8	11/12/2002		165.74	19.15	--	146.59	420	--	6.4	2.9	16	110	31	--	--	--	--	--	--	--	--	--	
MW-8	1/29/2003		165.74	15.02	--	150.72	200,000	--	810	<500	2,000	11,000	<500	<2,000	<50	<50	<50	<50	<50	<4,000	--	--	
MW-8	5/22/2003		165.74	15.07	--	150.67	--	--	--	--	--	--	--	<1,000	--	<25	<25	--	<25	<5,000	--	--	
MW-8	6/24/2003		165.74	17.95	--	147.79	43,000	--	860	300	2,100	9,600	46	--	--	--	--	--	--	--	--	--	
MW-8	7/28/2003		165.74	19.45	--	146.29	62,000	--	690	230	1,800	15,000	2,100	<4,000	<100	<100	<100	<100	<100	<20,000	--	--	
MW-8	8/12/2003		165.74	19.40	0.01	146.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	9/12/2003		165.74	19.34	--	146.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/18/2003		165.74	18.80	0.01	146.94	8,800	--	500	37	530	930	1,700	<400	--	<10	<10	--	20	<2,000	--	--	
MW-8	2/23/2004		165.74	12.82	0.01	152.92	32,000	--	840	360	1,000	7,100	110	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	5/4/2004		165.74	18.87	0.01	146.87	42,000	--	570	230	1,700	8,400	2,000	<1,000	<25	<25	<25	<25	33	<5,000	--	--	
MW-8	8/4/2004		165.74	19.37	0.05	146.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	9/22/2004		165.74	19.60	--	146.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	11/10/2004		165.74	16.58	--	149.16	11,000	--	790	61	1,000	830	74	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-8	2/15/2005		165.74	12.85	--	152.89	38,000	--	1,300	390	2,300	7,900	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	5/16/2005		165.74	12.22	--	153.52	31,000	--	1,000	360	2,500	7,500	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	8/17/2005		165.74	17.80	--	147.94	60,000	--	540	240	2,500	8,600	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	11/18/2005		165.74	21.02	--	144.72	33,000	--	340	120	1,400	4,900	140	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-8	2/7/2006		165.74	10.73	--	155.01	5,700	--	94	27	260	820	7.5	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	--	--	
MW-8	5/19/2006		165.74	13.89	--	151.85	40,000	--	1,100	320	2,900	6,000	<25	<1,000	<25	<25	<25	<25	<25	<15,000	--	--	
MW-8	8/23/2006		165.74	18.85	--	146.89	21,000	--	520	150	1,800	6,300	82	<1,000	<25	<25	<25	<25	<25	<15,000	--	--	
MW-8	11/15/2006		165.74	18.75	--	146.99	3,300	--	81	<25	130	430	110	<1,000	<25	<25	<25	<25	<25	<15,000	0.81	--	
MW-8	2/14/2007		165.74	13.45	(Sheen)	152.29	9,300	--	320	<25	360	710	82	<1,000	<25	<25	<25	<25	<25	<15,000	1.89	--	
MW-8	5/22/2007		165.74	15.92	(Sheen)	149.82	17,000	--	370	51	760	1,600	11	<400	<10	<10	<10	<10	<10	<6,000	1.05	--	
MW-8	8/15/2007		165.74	19.11	(Sheen)	146.63	17,000	--	170	44	1,000	2,700	28	<400	<10	<10	<10	<10	<10	<6,000	3.93	--	
MW-8	11/8/2007		165.74	18.46	(Sheen)	147.28	24,000	--	150	43	1,100	3,200	27	<1,000	<25	<25	<25	<25	<25	<15,000	1.29	--	
MW-8	8/20/2008		165.74	19.66	0.01	146.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	2/25/2009		165.74	11.50	(Sheen)	154.24	3,400	--	160	11	88	65	35	<200	<10	<10	<10	<10	<10	<6,000	2.18	--	
MW-8	4/8/2009		165.74	14.55	--	151.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	5/28/2009		165.74	16.12	(Sheen)	149.62	8,300	--	410	54	660	800	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	0.06	--	
MW-8	6/16/2009		165.74	17.63	--	148.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	3/4/2010		165.74	10.33	--	155.41	11,000	--	520	110	830	1,600	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	0.82	--	(P)
MW-8	9/2/2010		165.74	18.52	--	147.22	6,900	--	180	24	280	480	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	(P)
MW-8	3/15/2011		165.74	11.03	--	154.71	14,000	--	470	150	1,400	3,000	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,200	--	--	(P)
MW-8	8/17/2011		165.74	17.14	--	148.60	4,100	--	180	24	280	340	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	(P)
MW-8	2/6/2012		165.74	15.07	--	150.67	5,100	--	140	18	210	220	<5.0	<40	<5.0	<5.0	<5.0	<5.0(*)	<5.0	2,900	--	--	(P)
MW-8	8/21/2012		165.74	18.88	--	146.86	3,600	--	220	25	170	170	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	
MW-8	2/4/2013		165.74	14.88	--	150.86	2,300	--	71	13	150	230	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	
MW-8	8/1/2013		165.74	18.96	--	146.78	5,300	--	140	20	220	190	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	
MW-8	2/27/2014		165.74	16.30	--	149.44	4,900	--	200	26	200	110	<5.0	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	
MW-8	8/27/2014		165.74	18.66	--	147.08	6,400	--	170	29	290	240	<5.0	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5,000	2.49	80	
MW-8	3/27/2015		165.74	16.10	--	149.64	6,300	--	140	25	380	310	<5.0	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5,000	1.48	--	(HC odor)
MW-8	8/27/2015		165.74	18.39	--	147.35	5,800	--	94.2	14.7	112	62.9	<1.00	<5.00	<1.00	<1.00	<1.00	--	<1.00	<100	8.61	--	(1 liter purged.)
MW-8	3/28/2016		165.74	10.72	--	155.02	14,100	--	167	53.8	835	1,330	<50.0	3.70(J)	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	1.50	--	
MW-9	3/7/1991		166.20	16.79	--	149.41	7.1	--	220	4	2.4	2,400	--	--	--	--	--	--	--	--	--	--	
MW-9	4/1/1991		166.20	12.89	--	153.31	14,000	--	2,000	2,600	360	1,600	<10	<80	<10	<10	<10	<10	<10	<2,000	--	--	
MW-9	6/27/1991		--	--	--	--	3,600	--	520	400	85	310	--	--	--	--	--	--	--	--	--	--	
MW-9	9/27/1991		--	--	--	--	3.2	--	720	150	50	180	--	--	--	--	--	--	--	--	--	--	
MW-9	12/18/1991		--	--	--	--	--	--	2.5	1.1	0.3	5.8	--	--	--	--	--	--	--	--	--	--	
MW-9	7/3/1992		166.20	18.89	--	147.31	5,700	--	17,000	840	230	800	--	--	--	--	--	--	--	--	--	--	
MW-9	10/5/1992		166.20	20.52	--	145.68	1,400	--	440	17	14	100	--	--	--	--	--	--	--	--	--	--	
MW-9	1/13/1993	Dup	166.20	12.92	--	153.28	11,000	--	1,200	1,600	330	1,300	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-9	1/13/1993		166.20	12.92	--	153.28	11,000	--	1,200	1,700	340	1,400	--	--	--	--	--	--	--	--	--	--	
MW-9	4/23/1993		166.20	14.08	--	152.12	24,000	--	2,800	4,500	730	3,400	350	2,600	<5.0	<5.0	<5.0	<5.0	12	<1,000	--	--	
MW-9	7/12/1993	Dup	166.20	18.44	--	147.76	10,000	--	1,200	900	310	1,200	--	--	--	--	--	--	--	--	--	--	(Dup)
MW-9	7/12/1993		166.20	18.44	--	147.76	13,000	--	1,400	1,100	360	1,400	20.8	--	--	--	--	--	--	--	--	--	
MW-9	10/21/1993		166.20	21.81	--	143.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	1/21/1994		166.20	19.28	--	146.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-9	4/20/1994	Dup	166.20	19.72	--	146.48	45,000	--	2,700	6,800	1,200	8,200	740	160	<2.5	<2.5	<2.5	<2.5	<2.5	<500	--	--	(Dup)
MW-9	4/20/1994		166.20	19.72	--	146.48	43,000	--	2,800	6,800	1,300	7,900	768	--	--	--	--	--	--	--	1.7	--	
MW-9	8/1/1994		166.20	20.18	--	146.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	12/23/1994		166.20	14.22	--	151.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	1/26/1995		166.20	11.85	--	154.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	6/8/1995		166.20	18.33	--	147.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	8/22/1995		166.20	19.95	--	146.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	10/27/1995		166.20	20.88	--	145.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	1/25/1996		166.20	13.84	--	152.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	7/23/1996		166.20	18.84	--	147.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	11/11/1996		166.20	19.91	--	146.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	1/21/1997		166.20	12.93	--	153.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	4/29/1997		166.20	18.03	0.10	148.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	4/30/1997		--	--	--	--	78,000	--	1,900	3,600	3,100	20,600	<5,000	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<100	5.5	--	
MW-9	8/21/1997		166.20	19.56	--	146.64	110,000	--	2,100	3,400	2,300	18,800	<500	--	--	--	--	--	--	--	5.1	--	
MW-9	11/5/1997		166.20	20.59	0.01	145.60	59,000	--	1,400	1,700	2,200	17,000	<500	--	--	--	--	--	--	--	4.5	--	
MW-9	2/3/1998		166.20	10.56	--	155.64	55,000	--	490	1,200	1,400	10,200	<1,000	--	--	--	--	--	--	--	4.9	--	
MW-9	5/28/1998	Dup	166.20	14.21	--	151.99	53,000	--	290	830	1,400	10,500	<500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	(Dup)
MW-9	5/28/1998		166.20	14.21	--	151.99	430	--	250	1,200	1,500	11,400	<250	4.0	0.74	<0.50	<0.50	<0.50	17	<100	3.8	--	
MW-9	12/30/1998		166.20	15.61	--	150.59	83,000	--	860	1,300	2,400	21,000	180	--	--	--	--	--	--	--	--	--	
MW-9	2/2/1999		166.20	12.33	--	153.87	75,000	--	530	960	1,900	17,000	<50	--	--	--	--	--	--	--	--	--	
MW-9	5/10/1999		166.20	15.67	--	150.53	22,000	--	600	1,500	1,100	4,400	72	--	--	--	--	--	--	--	--	--	
MW-9	8/24/1999		166.20	19.10	--	147.10	85,000	--	850	1,300	1,700	20,000	<250	--	--	--	--	--	--	--	--	--	
MW-9	11/3/1999		166.20	19.58	--	146.62	72,000	--	700	780	1,900	19,000	<5.0	--	--	--	--	--	--	--	--	--	
MW-9	3/1/2000		166.20	13.19	--	153.01	34,000	--	78	490	1,100	8,200	63	--	--	--	--	--	--	--	--	--	
MW-9	4/21/2000		166.20	14.29	--	151.91	55,000	--	260	920	1,500	16,000	<5.0	--	--	--	--	--	--	--	--	--	
MW-9	7/31/2000		166.20	15.01	--	151.19	1,200,000	--	1,500	6,300	15,000	120,000	1,600	--	--	--	--	--	--	--	--	--	
MW-9	11/20/2000		166.20	18.23	--	147.97	320,000	--	3,500	19,000	5,000	40,000	3,900	--	--	--	--	--	--	--	--	--	
MW-9	2/18/2001		166.20	13.14	--	153.06	32,000	--	290	417	1,180	10,400	121	--	--	--	--	--	--	--	--	--	
MW-9	6/7/2001		166.20	17.41	--	148.79	96,000	--	421	704	2,330	17,300	223	--	--	--	--	--	--	--	--	--	
MW-9	9/5/2001		166.20	20.56	--	145.64	39,000	--	445	323	1,240	8,940	310	--	--	--	--	--	--	--	--	--	
MW-9	11/30/2001		166.20	17.42	--	148.78	60,000	--	310	586	1,890	14,200	285	--	--	--	--	--	--	--	--	--	
MW-9	2/20/2002		166.20	13.87	--	152.33	14,000	--	64	122	897	2,650	293	--	--	--	--	--	--	--	--	--	
MW-9	6/20/2002		166.20	18.22	--	147.98	29,000	--	307	168	1,100	5,670	208	--	--	--	--	--	--	--	--	--	
MW-9	9/11/2002		166.20	20.27	--	145.93	230,000	--	1,400	680	3,600	23,000	<2,500	--	--	--	--	--	--	--	--	--	
MW-9	11/12/2002		166.20	19.40	--	146.80	840	--	5.8	3.6	28	160	21	--	--	--	--	--	--	--	--	--	
MW-9	1/29/2003		166.20	14.30	0.10	151.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	5/22/2003		166.20	15.16	--	151.04	23,000	--	420	<50	1,000	2,900	<50	38	<0.50	<50	<50	<0.50	<50	<100	--	--	
MW-9	7/28/2003		166.20	19.55	0.01	146.65	1,500,000	--	<500	<500	9,800	79,000	<500	<20,000	<500	<500	<500	<500	<500	<100,000	--	--	
MW-9	8/12/2003		166.20	19.60	0.01	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	9/12/2003		166.20	19.60	0.01	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	11/18/2003		166.20	18.98	0.01	147.22	19,000	--	250	18	690	2,400	45	<400	--	<10	<10	--	<10	<2,000	--	--	
MW-9	2/23/2004		166.20	13.91	0.01	152.29	91,000	--	<250	440	2,200	13,000	<250	<10,000	<250	<250	<250	<250	<250	<50,000	--	--	
MW-9	5/4/2004		166.20	18.11	0.01	148.09	39,000	--	230	44	1,100	4,200	<25	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-9	8/4/2004		166.20	18.90	0.03	147.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	9/22/2004		166.20	19.69	--	146.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	11/10/2004		166.20	16.95	--	149.25	31,000	--	300	<50	1,100	3,800	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-9	2/15/2005		166.20	12.95	--	153.25	19,000	--	200	<50	720	2,000	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-9	5/16/2005		166.20	12.53	--	153.67	17,000	--	99	15	770	2,500	<10	4.4	<10	<10	<10	<10	<10	<2,000	--	--	
MW-9	8/17/2005		166.20	18.03	--	148.17	28,000	--	160	26	1,000	2,700	<12	<500	<12	<12	<12	<12	<12	<2,500	--	--	
MW-9	11/18/2005		166.20	19.04	--	147.16	12,000	--	98	<5.0	410	510	19	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<1,000	--	--	
MW-9	2/7/2006		166.20	10.95	(Sheen)	155.25	18,000	--	110	8.7	770	1,500	<5.0	<4.0	<5.0	<5.0	<5.0	<5.0	5.4	<3,000	--	--	
MW-9	8/23/2006		166.20	18.91	--	147.29	28,000	--	84	<50	1,600	6,200	<50	<2,000	<50	<50	<50	<50	<50	<30,000	--	--	
MW-9	11/15/2006		166.20	18.60	--	147.60	8,200	--	44	<25	190	370	26	<1,000	<25	<25	<25	<25	<25	<15,000	0.92	--	
MW-9	2/14/2007		166.20	13.30	--	152.90	20,000	--	64	<25	720	2,000	<25	<1,000	<25	<25	<25	<25	<25	<15,000	0.87	--	
MW-9	5/22/2007		166.20	16.14	(Sheen)	150.06	16,000	--	80	<25	460	1,200	<25	<1,000	<25	<25	<25	<25	<25	<15,000	0.81	--	
MW-9	8/15/2007		166.20	19.31	(Sheen)	146.89	5,900	--	27	<2.5	59	170	27	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	2.57	--	
MW-9	11/8/2007		166.20	18.70	--	147.50	6,100	--	29	<5.0	98	250	52	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	1.24	--	
MW-9	2/20/2008		166.20	12.79	0.03	153.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	5/7/2008		166.20	17.68	0.03	148.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	8/20/2008		166.20	19.75	0.01	146.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	11/17/2008		166.20	18.73	--	147.47	10,000	--	24	<2.5	160	140	33	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	--	--	
MW-9	2/25/2009		166.20	11.23	(Sheen)	154.97	14,000	--	60	<10	550	140	<10	<200	<10	<10	<10	<10	<10	<6,000	2.27	--	
MW-9	4/8/2009		166.20	14.21	--	151.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	5/28/2009		166.20	16.33	(Sheen)	149.87	8,000	--	49	<2.5	790	140	<2.5	<200	<2.5	<2.5	<2.5	<2.5	<2.5	<6,000	0.07	--	
MW-9	6/16/2009		166.20	17.82	0.01	148.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-9	8/6/2009		166.20	19.25	(Sheen)	146.95	6,800	--	19	<2.0	120	250	18	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<1,200	0.00	--	
MW-9	3/4/2010		166.20	10.32	--	155.88	6,000	--	29	<2.5	<2.5	100	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<500	0.62	--	(P)
MW-9	9/2/2010		166.20	18.72	--	147.48	5,700	--	31	<2.5	160	120	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<500	--	--	(NP)
MW-9	3/15/2011		166.20	11.08	--	155.12	6,500	--	17	<2.5	150	73	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,200	--	--	(P)
MW-9	8/17/2011		166.20	17.35	--	148.85	5,200	--	9.5	<2.5	71	54	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	
MW-9	2/6/2012		166.20	15.52	--	150.68	4,200	--	14	<2.5	49	22	<2.5	<20	<2.5	<2.5	<2.5	<2.5(*)	<2.5	<1,300	--	--	(P)
MW-9	8/21/2012		166.20	18.79	--	147.41	4,200	--	22	<2.5	42	21	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	
MW-9	2/4/2013		166.20	14.16	--	152.04	4,100	--	4.8	<2.5	34	13	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	
MW-9	8/1/2013		166.20	19.16	--	147.04	5,500	--	4.8	<2.5	36	21	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	
MW-9	2/27/2014		166.20	16.27	--	149.93	6,300	--	9.1	<2.5	36	11	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	
MW-9	8/27/2014		166.20	18.94	--	147.26	5,400	--	8.5	<2.5	41	6.3	<2.5	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2,500	0.20	17	(HC odor)
MW-9	3/27/2015		166.20	16.42	--	149.78	6,500	--	7.8	<2.5	38	5.6	<2.5	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2,500	1.96	--	
MW-9	8/27/2015		166.20	18.69	--	147.51	10,000	--	10.7	<5.00	21.7	2.86(J)	<1.00	<5.00	<1.00	<1.00	<1.00	--	<1.00	<100	2.59	--	(1 liter purged.)
MW-9	3/28/2016		166.20	10.96	--	155.24	7,630	--	4.41	<5.00	26.8	6.32	<1.00	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	3.96		
MW-10	3/7/1991		167.01	18.09	--	148.92	1.6	--	120	190	32	230	--	--	--	--	--	--	--	--	--	--	
MW-10	4/1/1991		167.01	13.92	--	153.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	6/27/1991		--	--	--	--	12,000	--	7,300	500	150	300	--	--	--	--	--	--	--	--	--	--	
MW-10	9/27/1991		--	--	--	--	57	--	12,000	7,200	1,400	4,600	--	--	--	--	--	--	--	--	--	--	
MW-10	12/18/1991		--	--	--	--	5.3	--	2,500	120	36	79	--	--	--	--	--	--	--	--	--	--	
MW-10	7/3/1992		167.01	19.92	--	147.09	8,600	--	5,100	1,300	180	690	--	--	--	--	--	--	--	--	--	--	
MW-10	10/5/1992		167.01	21.92	--	145.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	1/13/1993		167.01	14.43	--	152.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	4/23/1993		167.01	15.26	--	151.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
MW-10	7/12/1993		167.01	19.78	--	147.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	10/21/1993		167.01	22.90	--	144.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	1/21/1994		167.01	20.25	--	146.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	4/20/1994		167.01	20.74	--	146.27	100,000	--	12,000	24,000	2,400	14,000	1,577	--	--	--	--	--	--	--	1	--	
MW-10	8/1/1994		167.01	22.00	--	145.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	12/23/1994		167.01	16.08	--	150.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	1/26/1995		167.01	13.68	--	153.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	6/8/1995		167.01	19.08	--	147.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	8/22/1995		167.01	20.73	--	146.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	10/27/1995		167.01	21.69	--	145.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	1/25/1996		167.01	15.05	--	151.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	4/19/1996		167.01	16.26	--	150.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	7/23/1996		167.01	20.18	--	146.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	11/11/1996		167.01	21.20	--	145.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	1/21/1997		167.01	13.66	--	153.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	4/29/1997		167.01	18.71	--	148.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	4/30/1997		--	--	--	--	170,000	--	9,700	38,000	4,700	30,500	<5,000	--	--	--	--	--	--	--	5.6	--	
MW-10	8/21/1997		167.01	20.19	--	146.82	170,000	--	9,500	35,000	4,300	27,100	<5,000	--	--	--	--	--	--	--	5.3	--	
MW-10	11/5/1997		167.01	20.52	--	146.49	80,000	--	3,800	12,000	2,700	15,700	<500	--	--	--	--	--	--	--	4.4	--	
MW-10	2/3/1998		167.01	10.62	--	156.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	2/4/1998		--	--	--	--	72,000	--	500	1,300	1,700	12,000	<1,000	--	--	--	--	--	--	--	5.1	--	
MW-10	5/28/1998		167.01	15.46	--	151.55	220,000	--	3,200	24,000	5,200	43,000	<1,000	--	--	--	--	--	--	--	4.8	--	
MW-10	12/30/1998		167.01	16.65	--	150.36	110,000	--	3,500	14,000	5,800	50,000	<50	--	--	--	--	--	--	--	--	--	
MW-10	2/2/1999		167.01	14.58	--	152.43	74,000	--	1,000	2,800	1,000	26,000	860	--	--	--	--	--	--	--	--	--	
MW-10	5/10/1999		167.01	15.72	--	151.29	81,000	--	2,800	2,800	3,000	17,000	220	--	--	--	--	--	--	--	--	--	
MW-10	8/24/1999		167.01	19.85	--	147.16	54,000	--	3,500	3,800	1,500	9,100	<250	--	--	--	--	--	--	--	--	--	
MW-10	11/3/1999		167.01	20.00	--	147.01	30,000	--	3,000	3,500	1,200	5,000	31	--	--	--	--	--	--	--	--	--	
MW-10	3/1/2000		167.01	14.62	--	152.39	62,000	--	320	1,200	1,100	26,000	4,400	--	--	--	--	--	--	--	--	--	
MW-10	4/21/2000		167.01	15.46	--	151.55	88,000	--	2,700	7,400	3,700	35,000	2,400	--	--	--	--	--	--	--	--	--	
MW-10	11/20/2000		167.01	18.74	--	148.27	78,000	--	3,800	5,500	2,800	13,000	450	--	--	--	--	--	--	--	--	--	
MW-10	2/18/2001		167.01	14.10	--	152.91	39,000	--	1,050	1,160	1,550	14,700	4,180	--	--	--	--	--	--	--	--	--	
MW-10	6/7/2001		167.01	18.78	--	148.23	76,000	--	2,460	2,840	3,330	20,700	635	--	--	--	--	--	--	--	--	--	
MW-10	9/5/2001		167.01	21.40	0.01	145.60	25,000	--	2,510	2,070	1,090	4,540	189	--	--	--	--	--	--	--	--	--	
MW-10	11/30/2001		167.01	18.50	--	148.51	100,000	--	2,480	5,720	3,890	22,800	325	--	--	--	--	--	--	--	--	--	
MW-10	2/20/2002		167.01	14.39	--	152.62	49,000	--	2,170	3,070	1,960	12,300	1,090	--	--	--	--	--	--	--	--	--	
MW-10	6/20/2002		167.01	18.80	--	148.21	44,000	--	2,040	3,050	1,690	8,430	224	--	--	--	--	--	--	--	--	--	
MW-10	9/11/2002		167.01	20.52	--	146.49	28,000	--	1,200	2,700	1,400	6,800	<250	--	--	--	--	--	--	--	--	--	
MW-10	11/12/2002		167.01	20.37	0.07	146.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	1/29/2003		167.01	16.33	0.03	150.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	5/22/2003		167.01	16.32	--	150.69	13,000	--	2,100	850	630	1,600	300	<2,000	--	<50	<50	--	<50	<10,000	--	--	
MW-10	6/24/2003		167.01	18.73	0.04	148.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	7/28/2003		167.01	20.39	0.04	146.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	8/12/2003		167.01	20.43	0.01	146.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	9/12/2003		167.01	20.41	--	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	11/18/2003		167.01	19.55	0.01	147.46	9,900	--	2,200	530	320	860	<50	<2,000	--	<50	<50	--	<50	<10,000	--	--	
MW-10	2/23/2004		167.01	15.45	0.01	151.56	46,000	--	1,900	2,000	1,800	9,000	180	<4,000	<100	<100	<100	<100	<100	<20,000	--	--	
MW-10	5/4/2004		167.01	18.81	0.01	148.20	35,000	--	3,100	3,600	1,400	5,600	<25	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-10	8/4/2004		167.01	18.90	--	148.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	9/22/2004		167.01	20.60	--	146.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	11/10/2004		167.01	17.95	--	149.06	9,800	--	470	91	450	1,700	230	<1,000	<25	<25	<25	<25	<25	<5,000	--	--	
MW-10	1/13/2005		167.01	12.21	--	154.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	2/15/2005		167.01	14.19	--	152.82	30,000	--	510	330	1,800	7,200	77	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-10	5/16/2005		167.01	13.85	--	153.16	37,000	--	540	730	2,100	9,200	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-10	8/17/2005		167.01	19.01	--	148.00	15,000	--	1,100	420	1,200	4,100	<50	<2,000	<50	<50	<50	<50	<50	<10,000	--	--	
MW-10	11/18/2005		167.01	19.95	--	147.06	12,000	--	1,200	240	550	1,300	16	<500	<12	<12	<12	<12	<12	<2,500	--	--	
MW-10	2/7/2006		167.01	12.28	(Sheen)	154.73	22,000	--	340	580	1,300	4,500	73	<1,000	<25	<25	<25	<25	<25	<15,000	--	--	
MW-10	5/19/2006		167.01	15.12	--	151.89	40,000	--	690	430	2,600	4,900	<25	<1,000	<25	<25	<25	<25	<25	<15,000	--	--	
MW-10	8/23/2006		167.01	20.00	--	147.01	13,000	--	1,500	540	1,200	3,000	<10	<400	<10	<10	<10	<10	<10	<6,000	--	--	
MW-10	11/15/2006		167.01	19.84	--	147.17	3,800	--	700	22	67	160	54	<400	<10	<10	<10	<10	<10	<6,000	0.65	--	
MW-10	2/14/2007		167.01	14.94	(Sheen)	152.07	37,000	--	350	120	2,400	8,100	120	<400	<10	<10	<10	<25	<10	<6,000	2.12	--	
MW-10	5/22/2007		167.01	17.17	(Sheen)	149.84	13,000	--	810	130	750	2,200	15	<400	<10	<10	<10	<10	<10	<6,000	0.06	--	
MW-10	8/15/2007		167.01	20.30	(Sheen)	146.71	4,400	--	550	38	160	310	<10	<400	<10	<10	<10	<10	<10	<6,000	3.09	--	
MW-10	11/8/2007		167.01	19.58	(Sheen)	147.43	13,000	--	970	130	480	1,600	6.0	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<3,000	1.47	--	
MW-10	2/20/2008		167.01	14.27	0.05	152.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	5/7/2008		167.01	18.61	--	148.40	16,000	--	970	150	770	2,000	<20	<400	<20	<20	<20	<20	<20	<12,000	2.18	--	
MW-10	8/20/2008		167.01	20.71	0.01	146.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	11/17/2008		167.01	19.71	--	147.30	10,000	--	960	57	270	720	23	<400	<20	<20	<20	<20	<20	<12,000	--	--	
MW-10	2/25/2009		167.01	13.10	--	153.91	2,900	--	53	14	69	160	170	280	<10	<10	<10	<10	<10	<6,000	4.06	--	
MW-10	4/8/2009		167.01	15.91	--	151.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	5/28/2009		167.01	17.37	(Sheen)	149.64	15,000	--	640	280	790	2,500	65	110	<2.5	<2.5	<2.5	<2.5	<2.5	<1,500	0.03	--	
MW-10	6/16/2009		167.01	18.79	0.01	148.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	8/6/2009		167.01	20.19	(Sheen)	146.82	23,000	--	850	490	1,200	4,100	<25	<500	<25	<25	<25	<25	<25	<15,000	0.06	--	
MW-10	3/4/2010		167.01	12.32	--	154.69	12,000	--	71	72	740	1,800	<2.5	160	<2.5	<2.5	<2.5	<2.5	<2.5	<500	0.56	--	(P)
MW-10	9/2/2010		167.01	19.63	--	147.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(b,j)
MW-10	3/15/2011		167.01	13.20	--	153.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(b,j)
MW-10	8/17/2011		167.01	18.27	--	148.74	4,000	--	780	39	250	290	<5.0	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500	--	--	(P)
MW-10	2/6/2012		167.01	16.32	--	150.69	6,300	--	1,100	39	340	470	<5.0	<40	<5.0	<5.0	<5.0	<5.0(*)	<5.0	<2,500	--	--	(P)
MW-10	8/21/2012		167.01	19.66	0.02	147.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)
MW-10	2/4/2013		167.01	15.75	(Sheen)	151.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	8/1/2013		167.01	20.03	0.01	146.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)
MW-10	2/27/2014		167.01	17.65	0.01	149.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	8/27/2014		167.01	19.69	0.01	147.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-10	3/27/2015		167.01	17.19	0.01	149.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(b,j)
MW-10	8/27/2015		167.01	19.26	0.02	147.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LNAPL present on probe)
MW-10R	3/28/2016		166.80	12.50	--	154.30	38,000	--	3,830	2,810	1,130	5,310	1.30	40.5	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	1.82	--	
MW-11	3/28/2016		165.64	11.32	--	154.32	<100	--	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	1.12	--	
RW-1	3/7/1991		168.01	17.62	--	150.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	4/1/1991		168.01	14.40	--	153.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
RW-1	7/3/1992		168.01	20.66	--	147.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	10/5/1992		168.01	23.34	--	144.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	1/13/1993		168.01	16.59	--	151.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	4/23/1993		168.01	16.17	--	151.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	7/12/1993		168.01	20.18	--	147.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	10/21/1993		168.01	25.70	--	142.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	1/21/1994		168.01	21.24	--	146.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	4/20/1994		168.01	32.20	--	135.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/1/1994		168.01	21.70	--	146.31	29,000	--	580	950	300	7,800	1,200	--	--	--	--	--	--	--	1.1	--	
RW-1	12/23/1994		168.01	16.02	--	151.99	1,300	--	25	8.6	1.4	69	616	--	--	--	--	--	--	--	1.8	--	
RW-1	1/26/1995	Dup	168.01	13.78	--	154.23	<50	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	1/26/1995		168.01	13.78	--	154.23	<50	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--	--	
RW-1	6/8/1995		168.01	20.05	--	147.96	1,300	--	130	<1.0	<1.0	36	--	--	--	--	--	--	--	--	--	--	
RW-1	8/22/1995	Dup	168.01	21.74	--	146.27	3,300	--	230	13	4.9	280	<25	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	8/22/1995		168.01	21.74	--	146.27	2,800	--	210	9.3	4.3	250	<25	--	--	--	--	--	--	--	6.6	--	
RW-1	10/27/1995		168.01	32.00	--	136.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	10/30/1995	Dup	--	--	--	--	240	--	1.6	<1.0	<1.0	<2.0	630	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	10/30/1995		--	--	--	--	230	--	1.4	<1.0	<1.0	<2.0	650	--	--	--	--	--	--	--	6.9	--	
RW-1	1/25/1996		168.01	15.41	--	152.60	15,000	--	3,400	930	330	2,500	5,300	--	--	--	--	--	--	--	--	--	
RW-1	4/19/1996	Dup	168.01	16.83	--	151.18	33,000	--	5,600	3,200	1,700	8,800	15,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	4/19/1996		168.01	16.83	--	151.18	35,000	--	5,500	3,300	1,700	9,400	14,000	--	--	--	--	--	--	--	7.6	--	
RW-1	7/23/1996	Dup	168.01	20.76	--	147.25	47,000	--	3,700	2,500	930	5,300	35,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	7/23/1996		168.01	20.76	--	147.25	46,000	--	3,600	2,300	900	5,100	36,000	--	--	--	--	--	--	--	7.4	--	
RW-1	11/11/1996	Dup	168.01	21.73	--	146.28	31,000	--	2,900	1,000	860	4,600	22,000	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	11/11/1996		168.01	21.73	--	146.28	34,000	--	3,000	1,200	880	4,600	22,000	--	--	--	--	--	--	--	8.3	--	
RW-1	1/21/1997	Dup	168.01	14.20	--	153.81	270	--	42	17	2.7	36	1,500	--	--	--	--	--	--	--	--	--	(Dup)
RW-1	1/21/1997		168.01	14.20	--	153.81	260	--	40	16	2.7	34	1,500	--	--	--	--	--	--	--	6.1	--	
RW-1	4/29/1997		168.01	19.15	--	148.86	32,000	--	3,100	590	1,300	6,000	46,000	--	--	--	--	--	--	--	5.3	--	
RW-1	8/21/1997		168.01	20.67	--	147.34	7,600	--	730	58	370	1,780	9,500	--	--	--	--	--	--	--	4.7	--	
RW-1	11/5/1997		168.01	21.01	--	147.00	39,000	--	2,300	86	1,300	3,840	56,000	--	--	--	--	--	--	--	4.5	--	
RW-1	2/3/1998		168.01	10.68	--	157.33	3,400	--	31	11	29	161	3,200	--	--	--	--	--	--	--	5.1	--	
RW-1	5/28/1998		168.01	15.55	--	152.46	2,000	--	90	15	60	305	2,700	--	--	--	--	--	--	--	4.3	--	
RW-1	12/30/1998		168.01	17.35	--	150.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	2/2/1999		168.01	14.58	--	153.43	82,000	--	2,300	120	2,000	3,200	78,000	--	--	--	--	--	--	--	--	--	
RW-1	5/10/1999		168.01	16.00	--	152.01	15,000	--	620	88	340	660	61,000	--	--	--	--	--	--	--	--	--	
RW-1	8/24/1999		168.01	20.00	--	148.01	52,000	--	1,400	170	2,200	2,900	37,000	--	--	--	--	--	--	--	--	--	
RW-1	11/3/1999		168.01	20.39	--	147.62	17,000	--	2,500	86	1,500	970	54,000	--	--	--	--	--	--	--	--	--	
RW-1	3/1/2000		168.01	12.97	--	155.04	17,000	--	580	78	790	1,100	13,000	--	--	--	--	--	--	--	--	--	
RW-1	4/21/2000		168.01	16.02	--	151.99	31,000	--	2,100	100	1,400	1,100	39,000	--	--	--	--	--	--	--	--	--	
RW-1	7/31/2000		168.01	21.89	--	146.12	47,000	--	1,300	170	2,700	2,300	30,000	--	--	--	--	--	--	--	--	--	
RW-1	11/20/2000		168.01	19.15	--	148.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	2/18/2001		168.01	15.35	--	152.66	14,000	--	589	89	600	712	13,000	--	--	--	--	--	--	--	--	--	
RW-1	6/7/2001		168.01	19.09	--	148.92	28,000	--	1,140	68.2	504	530	19,100	--	--	--	--	--	--	--	--	--	
RW-1	9/5/2001		168.01	22.06	0.02	145.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	11/30/2001		168.01	19.53	--	148.48	20,000	--	405	39.4	545	740	8,260	--	--	--	--	--	--	--	--	--	
RW-1	2/20/2002		168.01	15.99	--	152.02	13,000	--	469	29	434	655	7,240	--	--	--	--	--	--	--	--	--	
RW-1	6/20/2002		168.01	19.31	--	148.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	9/11/2002		168.01	21.07	0.03	146.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	11/12/2002		168.01	20.92	0.02	147.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	1/29/2003		168.01	16.31	0.04	151.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	5/22/2003		168.01	16.68	--	151.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	6/24/2003		168.01	19.76	0.07	148.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	7/28/2003		168.01	21.04	0.04	146.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/12/2003		168.01	21.41	0.01	146.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	9/12/2003		168.01	21.10	0.07	146.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	11/18/2003		168.01	20.10	0.01	147.91	12,000	--	770	<50	320	250	6,100	11,000	--	<50	<50	--	160	<10,000	--	--	
RW-1	2/23/2004		168.01	14.35	0.01	153.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	5/4/2004		168.01	19.58	0.02	148.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/4/2004		168.01	22.05	0.05	146.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	9/22/2004		168.01	21.28	0.06	146.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	11/10/2004		168.01	18.56	0.02	149.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	1/13/2005		168.01	12.51	0.01	155.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	2/15/2005		168.01	15.24	0.03	152.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	3/7/2005		168.01	11.90	0.02	156.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	5/16/2005		168.01	14.39	0.02	153.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/17/2005		168.01	19.91	0.03	148.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	11/18/2005		168.01	20.36	0.07	147.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	2/7/2006		168.01	12.87	0.01	155.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	5/19/2006		168.01	15.87	0.04	152.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/23/2006		168.01	20.50	0.07	147.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	11/15/2006		168.01	20.52	0.07	147.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	2/14/2007		168.01	15.44	0.04	152.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	5/22/2007		168.01	17.78	(Sheen)	150.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/15/2007		168.01	20.80	0.02	147.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	11/8/2007		168.01	20.32	0.01	147.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	2/20/2008		168.01	14.55	0.02	153.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/20/2008		168.01	21.34	0.02	146.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	11/17/2008		168.01	20.41	--	147.60	13,000	--	120	<20	590	320	120	<400	<20	<20	<20	<20	<20	<12,000	--	--	
RW-1	2/25/2009		168.01	13.40	0.02	154.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	4/8/2009		168.01	16.45	--	151.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	5/28/2009		168.01	17.88	0.01	150.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	6/16/2009		168.01	19.30	0.01	148.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/6/2009		168.01	20.72	0.01	147.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	3/4/2010		168.01	12.33	--	155.68	8,000	--	20	<2.5	230	140	110	45	<2.5	<2.5	<2.5	<2.5	5.7	<500	1.24	--	(P)
RW-1	9/2/2010		168.01	20.14	--	147.87	4,700	--	18	<2.5	78	46	<2.5	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<500	--	--	(NP)
RW-1	3/15/2011		168.01	13.03	--	154.98	7,000	--	3.7	<2.5	44	31	6.7	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,200	--	--	(P)
RW-1	8/17/2011		168.01	18.60	--	149.41	2,800	--	7.5	<2.5	12	10	8.8	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<1,300	--	--	(P)
RW-1	2/6/2012		168.01	16.81	--	151.20	1,300	--	3.1	<2.5	5.2	5.1	2.9	<20	<2.5	<2.5	<2.5	<2.5(*)	<2.5	<1,300	--	--	(P)
RW-1	8/21/2012		168.01	20.06	--	147.95	1,200	--	10	0.58	10	5.2	15	<4.0	<0.50	<0.50	<0.50	<0.50	1.0	<250	--	--	(P)
RW-1	2/4/2013		168.01	16.36	(Sheen)	151.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
RW-1	8/1/2013		168.01	20.50	0.01	147.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	(LPH)
RW-1	2/27/2014		168.01	17.66	--	150.35	800	--	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	--	--	

Well ID	Date	Type	TOC (ft msl)	DTW (ft)	Measured LNAPL Thickness (ft)	GW Elev (ft msl)	GRO (µg/L)	DRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	EDB (µg/L)	TAME (µg/L)	Ethanol (µg/L)	DO (mg/L)	NAPH (µg/L)	Notes
RW-1	8/27/2014		168.01	20.35	(SHEEN)	147.66	2,800	--	5.9	1.7	12	5.2	6.7	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<500	0.22	6.8	(HC odor, sheen)
RW-1	3/27/2015		168.01	17.57	--	150.44	970	--	0.98	<0.50	0.91	1.5	0.74	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<500	2.35	--	(HC odor)
RW-1	8/27/2015		168.01	19.90	--	148.11	2,550	--	4.57	1.14(J)	4.54	3.66	<1.00	6.22	<1.00	<1.00	<1.00	--	<1.00	<100	8.36	--	(1 liter purged. Moderate hydrocarbon odor.)
RW-1	3/28/2016		168.01	12.68	--	155.33	199	--	<1.00	<5.00	<1.00	<3.00	<1.00	<5.00	<1.00	<1.00(J3)	<1.00	<1.00	<1.00	<100	1.01	--	

Notes:

TOC = Top of casing measured
DTW = Depth to water
LNAPL = Light non-aqueous phase liquid (LPH)
GW Elev = Groundwater elevation
GRO = Gasoline range organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MTBE = Methyl tert-butyl ether
TBA = tert-butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME= tert-Amyl methyl ether
DO = Dissolved oxygen
1,2-DCA = 1,2-dichloroethane
EDB = 1,2-dibromoethane
Ft msl = Feet above mean sea level
DUP = Duplicate sample
-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
mg/L = Milligrams per liter
µg/L = Micrograms per liter
NP = Well not purged prior to sampling
P = Well purged prior to sampling
b = GWE adjusted assuming a specific gravity of 0.75 for free product
j = Well not sampled due to presence of LPH and nature of the product
t = Sheen in well
y = Sample dilution was done with headspace in the sample vial; the samples were originally analyzed from VOAs without headspace
* = LCS or LCS D exceeds the control limits
Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list; TPHg was changed to GRO; the resulting data may be
Beginning in the Second Quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12
Values for DO and pH were obtained through field measurements
GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008;
The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their

Table 2
Historical Groundwater Monitoring and Analtyical Data
CA-11132
3201 35th Ave, Oakland, CA 94619

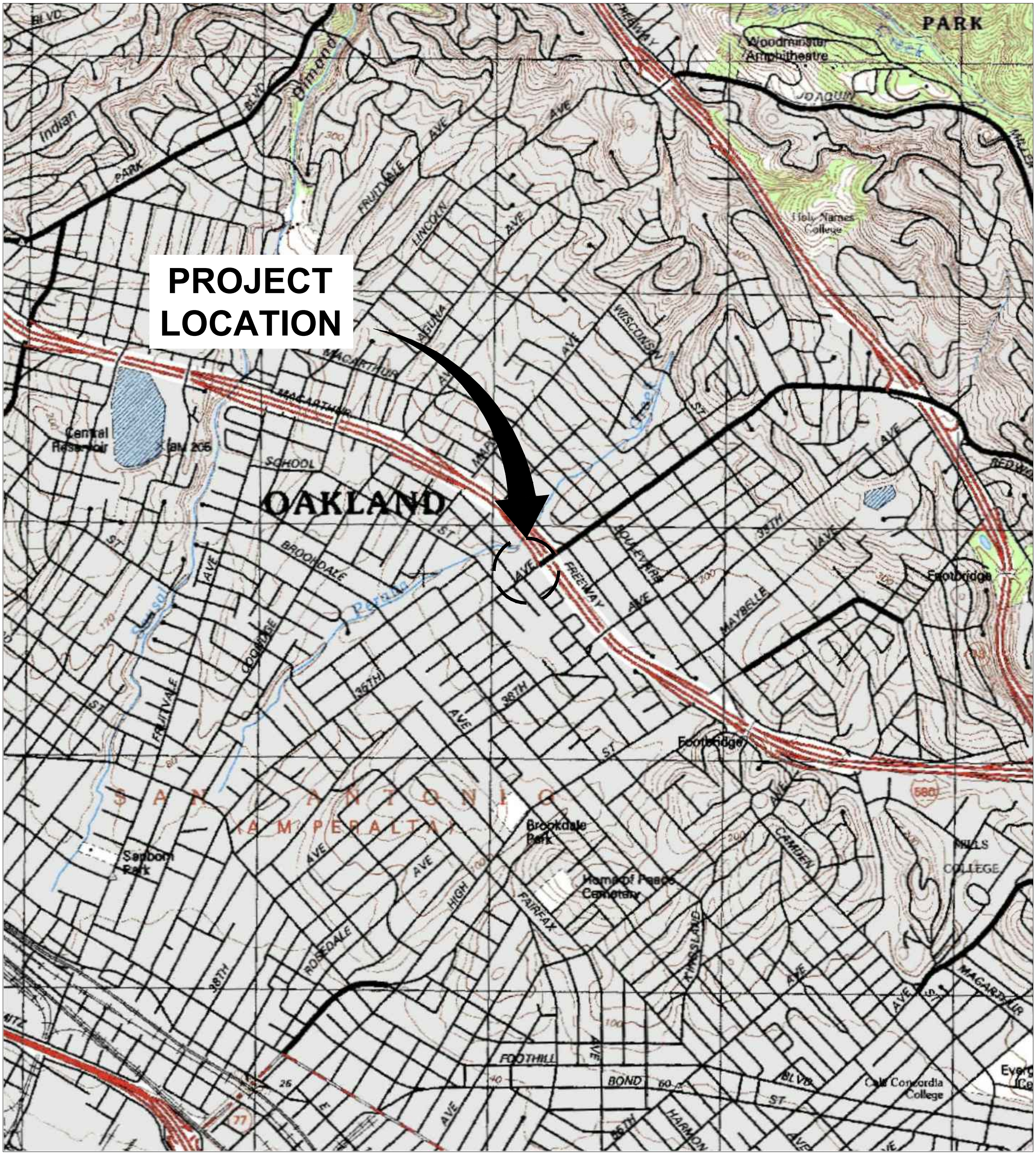
GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008;
The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their

Table 3
Historical Groundwater Flow Direction and Gradient
CA-11132
3201 35th Ave, Oakland, CA 94619

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
5/19/2006	South	0.003 to 0.005
8/23/2006	Southwest	0.01
11/15/2006	South	0.004
2/14/2007	Southeast	0.01
5/22/2007	South	0.005
8/15/2007	South-Southwest	0.008
11/8/2007	Southwest	0.006
2/20/2008	Southeast	0.008
5/7/2008	South-Southwest	0.003
8/20/2008	South-Southwest	0.007
11/17/2008	South-Southwest	0.005
2/25/2009	Southeast	0.01
5/28/2009	South	0.004
8/6/2009	South-Southwest	0.005
3/4/2010	East-Southeast	0.02
9/2/2010	Southwest	0.01
3/15/2011	Southeast	0.01
8/17/2011	Southwest	0.003
2/6/2012	Southeast	0.005
8/21/2012	Southwest	0.007
2/4/2013	Southwest	0.01
8/1/2013	Southwest	0.007
2/27/2014	South-Southwest	0.007
8/27/2014	West-Northwest	0.01
3/27/2015	West	0.004
8/27/2015	West-Northwest	0.01
3/28/2016	South	0.007

Notes:
The data within this table collected prior to April 2006 were provided to Broadbent & Associated, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

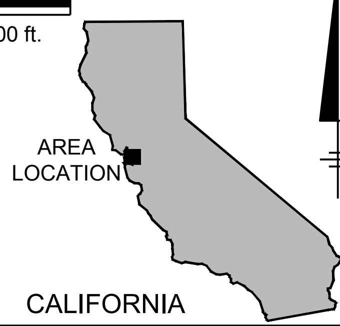
Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND EAST, CALIFORNIA, 1997.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



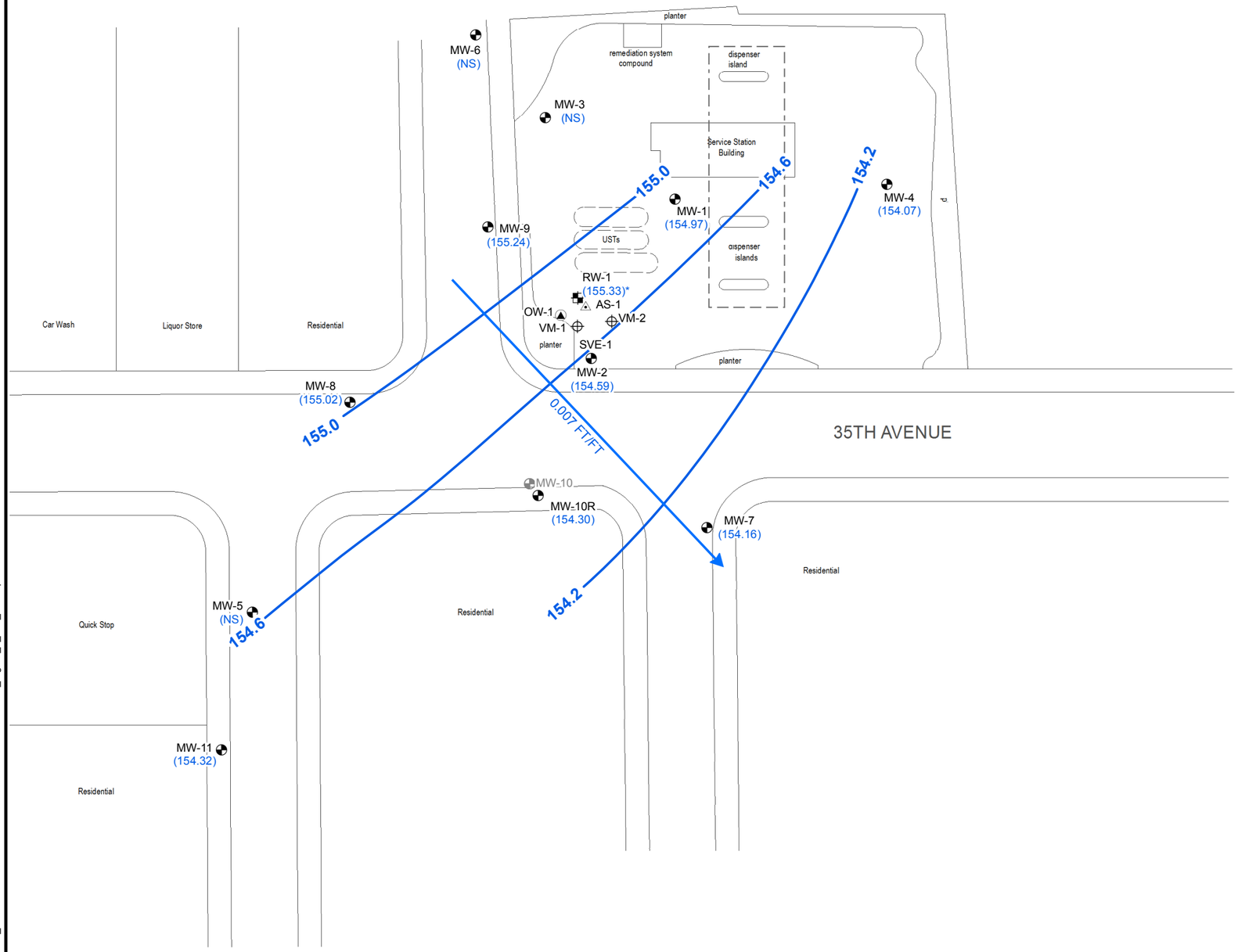
FORMER BP STATION No. 11132
3201 35TH AVENUE
OAKLAND, CALIFORNIA

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:--- PIC:--- PM: H. PHILLIPS TM: J. PETERSON LYR:(Opt)ON=*;OFF=*REF*
C:\ENVCAD\Emeryville\ACT\GP09BPNAC112\C0000\DWG\GP09BPNAC112-N01.dwg LAYOUT: 1 SAVED: 2/19/2016 1:55 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/19/2016 1:58 PM BY: REYES, ALEC
XREFS: IMAGES: USGS TOPO 11132.jpg PROJECTNAME: ----



LEGEND:

MW-1	◕	GROUNDWATER MONITORING WELL
RW-1	◕	GROUNDWATER RECOVERY WELL
OW-1	◕	OBSERVATION WELL
SVE-1	◕	SOIL VAPOR EXTRACTION WELL
VM-1	◕	SOIL VAPOR MONITORING WELL
AS-1	◕	AIR SPARGE WELL
MW-10	◕	ABANDONED MONITORING WELL
	▭	CANOPY
(154.16)		GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
*		NOT USED IN CONTOURING
154.2	—	GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
0.007 FT/FT	→	GROUNDWATER FLOW DIRECTION (FEET PER FOOT)
NS		NOT SAMPLED

NOTES:

1. SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.
2. WELL MW-7 AND SUTER STREET LOCATIONS HAVE BEEN CORRECTED FROM PREVIOUS MAPS.

0 50 100

SCALE IN FEET

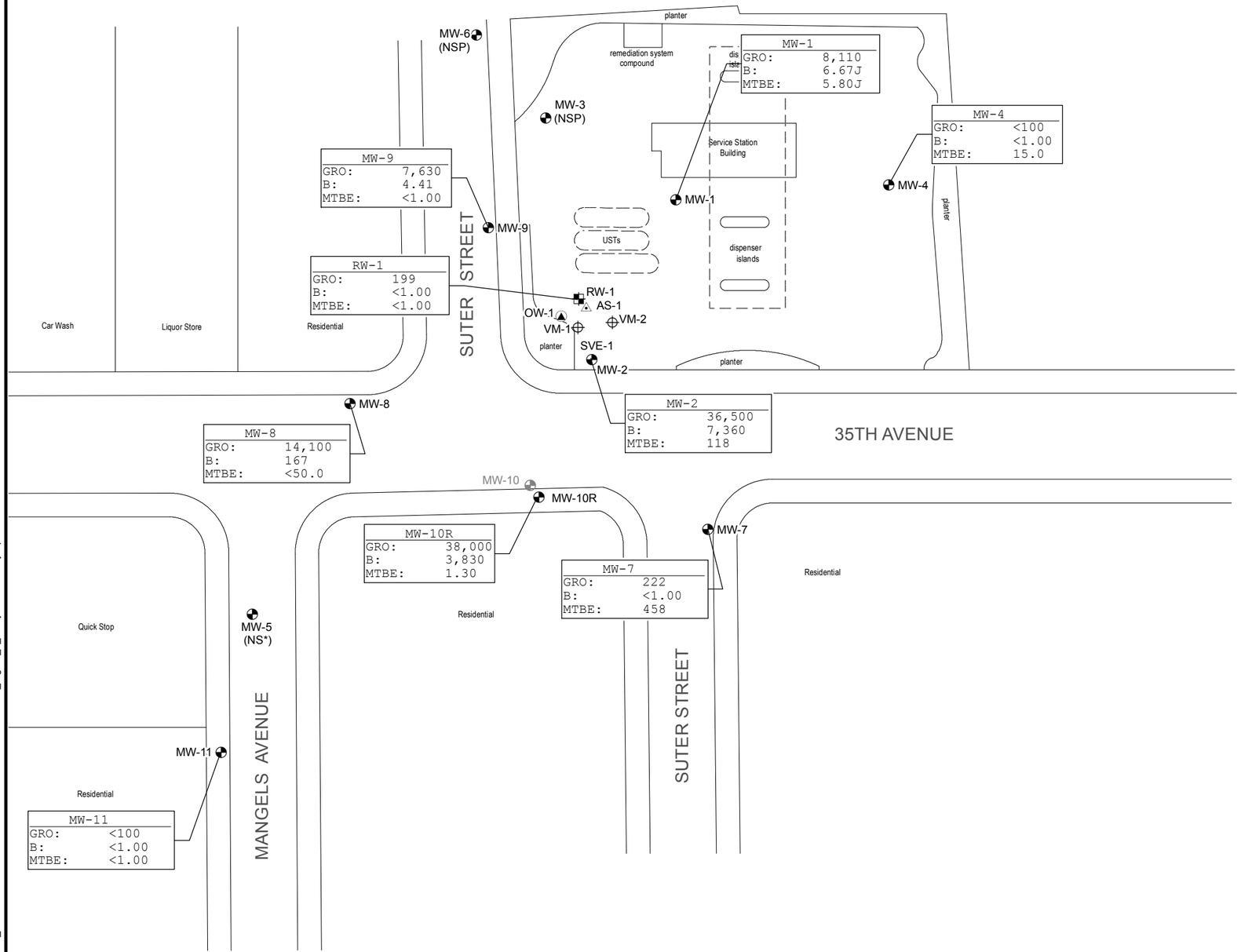
FORMER BP SERVICE STATION #11132
3201 35TH AVENUE
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP MARCH 28, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: kgpeters LD: PIC: PM: TM:
PROJECT: PATH: Z:\GISPROJECTS_ENV\BP_FOXGLOVE\CA\CA11132\GIS\MXD\1Q2016\CA11132_Figure_2_GW_Elev1q2016.mxd DATE: 4/27/2016 9:27:43 AM



LEGEND:

MW-1	◔	GROUNDWATER MONITORING WELL
RW-1	◪	GROUNDWATER RECOVERY WELL
OW-1	◭	OBSERVATION WELL
SVE-1	▲	SOIL VAPOR EXTRACTION WELL
VM-1	⊕	SOIL VAPOR MONITORING WELL
AS-1	△	AIR SPARGE WELL
MW-10	◔	ABANDONED MONITORING WELL
	[ ]	CANOPY

MW-4
GRO: <100
B: <1.00
MTBE: 15.0

- SAMPLE LOCATION ID
- CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- ANALYTE

GRO	GASOLINE RANGE ORGANICS
B	BENZENE
MTBE	METHYL TERT-BUTYL ETHER
<	NOT DETECTED AT OR ABOVE STATED LABORATORY REPORTING LIMIT
NSP	WELL NOT SAMPLED IN ACCORDANCE WITH GROUNDWATER SAMPLING SCHEDULE
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE
NS*	WELL NOT SAMPLED; CAR PARKED OVER WELL DURING MONITORING EVENT

0 50 100

SCALE IN FEET

NOTES:

1. SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.
2. WELL MW-7 AND SUTER STREET LOCATIONS HAVE BEEN CORRECTED FROM PREVIOUS MAPS.

FORMER BP SERVICE STATION #11132
3201 35TH AVENUE
OAKLAND, CALIFORNIA

GROUNDWATER ANALYTICAL SUMMARY MAP MARCH 28, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: kgreters LD: PIC: PM: TM:
PROJECT: PATH: Z:\GISPROJECTS_ENV\BP_FOXGLOVE\CA\CA11132\GIS\MXD\102016\CA11132_Figure_3_AnalyticalSummary1q2016.mxd DATE: 4/27/2016 10:00:06 AM

ARCADIS

Attachment A

Field Methods

QUALITY ASSURANCE/QUALITY CONTROL
FIELD METHODS

Field methods discussed herein were implemented to provide for accuracy and reliability of field activities, data collection, sample collection, and handling. Discussion of these methods is provided below.

1.0 Equipment Calibration

Equipment calibration was performed per equipment manufacturer specifications before use.

2.0 Depth to Groundwater and Light Non-Aqueous Phase Liquid Measurement

Depth to groundwater was measured in wells identified for gauging in the scope of work using a decontaminated water level indicator. The depth to water measurement was taken from a cut notch or permanent mark at the top of the well casing to which the well head elevation was originally surveyed.

Once depth to water was measured, an oil/water interface meter or a new disposable bailer was utilized to evaluate the presence and, if present, to measure the "apparent" thickness of light non-aqueous phase liquid (LNAPL) in the well. If LNAPL was present in the well, groundwater purging and sampling were not performed, unless sampling procedures in the scope of work specified collection of samples in the presence of LNAPL. Otherwise, time allowing, LNAPL was bailed from the well using either a new disposable bailer, or the disposal bailer previously used for initial LNAPL assessment. Bailing of LNAPL continued until the thickness of LNAPL (or volume) stabilized in each bailer pulled from the well, or LNAPL was no longer present. After LNAPL thickness either stabilized or was eliminated, periodic depth to water and depth to LNAPL measurements were collected as product came back into the well to evaluate product recovery rate and to aid in further assessment of LNAPL in the subsurface. LNAPL thickness measurements were recorded as "apparent." If a bailer was used for LNAPL thickness measurement, the field sampler noted the bailer entry diameter and chamber diameter to enable correction of thickness measurements. Recovered LNAPL was stored on-site in a labeled steel drum(s) or other appropriate container(s) prior to disposal.

3.0 Well Purging and Groundwater Sample Collection

Well purging and groundwater sampling were performed in wells specified in the scope of work after measuring depth to groundwater and evaluating the presence of LNAPL. Purging and sampling were performed using one of the methods detailed below. The method used was noted in the field records. Purge water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal or on-site treatment (in cases where treatment using an on-site system is authorized).

3.1 Purging a Predetermined Well Volume

Purging a predetermined well volume is performed per ASTM International (ASTM) D4448-01. This purging method has the objective of removing a predetermined volume of stagnant water from the well prior to sampling. The volume of stagnant water

is defined as either the volume of water contained within the well casing, or the volume within the well casing and sand/gravel in the annulus if natural flow through these is deemed insufficient to keep them flushed out.

This purging method involves removal of a minimum of three stagnant water volumes from the well using a decontaminated pump with new disposable plastic discharge or suction tubing, dedicated well tubing, or using a new disposable or decontaminated reusable bailer. If a new disposable bailer was used for assessment of LNAPL, that bailer may be used for purging. The withdrawal rate used is one that minimizes drawdown while satisfying time constraints.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity[1]. Parameters are considered stable when two (2) consecutive readings recorded three (3) minutes apart fall within ranges provided below in Table 1. In the event that the parameters have not stabilized and five (5) well casing volumes have been removed, purging activities will cease and be considered complete. Once the well is purged, a groundwater sample(s) is collected from the well using a new disposable bailer. If a new disposable bailer was used for purging, that bailer may be used to collect the sample(s). A sample is not collected if the well is inadvertently purged dry.

Table 1. Criteria for Defining Stabilization of Water-Quality Indicator Parameters

Parameter	Stabilization Criterion
Temperature	± 0.2ºC (± 0.36ºF)
pH	± 0.1 standard units
Conductivity	± 3%
Dissolved oxygen	± 10%
Oxidation reduction potential	± 10 mV
Turbidity[1]	± 10% or 1.0 NTU (whichever is greater)

3.2 Low-Flow Purging and Sampling

“Low-Flow”, “Minimal Drawdown”, or "Low-Stress” purging is performed per ASTM D6771-02. It is a method of groundwater removal from within a well’s screened interval that is intended to minimize drawdown and mixing of the water column in the well casing. This is accomplished by pumping the well using a decontaminated pump with new disposable plastic discharge or suction tubing or dedicated well tubing at a low flow rate while evaluating the groundwater elevation during pumping.

[1] As stated in ASTM D6771-02, turbidity is not a chemical parameter and not indicative of when formation-quality water is being purged; however, turbidity may be helpful in evaluating stress on the formation during purging. Turbidity measurements are taken at the same time that stabilization parameter measurements are made, or, at a minimum, once when purging is initiated and again just prior to sample collection, after stabilization parameters have stabilized. To avoid artifacts in sample analysis, turbidity should be as low as possible when samples are collected. If turbidity values are persistently high, the withdrawal rate is lowered until turbidity decreases. If high turbidity persists even after lowering the withdrawal rate, the purging is stopped for a period of time until turbidity settles, and the purging process is then restarted. If this fails to solve the problem, the purging/sampling process for the well is ceased, and well maintenance or redevelopment is considered.

The low flow pumping rate is well specific and is generally established at a volume that is less than or equal to the natural recovery rate of the well. A pump with adjustable flow rate control is positioned with the intake at or near the mid-point of the submerged well screen. The pumping rate used during low-flow purging is low enough to minimize mobilization of particulate matter and drawdown (stress) of the water column. Low-flow purging rates will vary based on the individual well characteristics; however, the purge rate should not exceed 1.0 Liter per minute (L/min) or 0.25 gallon per minute (gal/min). Low-flow purging should begin at a rate of approximately 0.1 L/min (0.03 gal/min)[2], or the lowest rate possible, and be adjusted based on an evaluation of drawdown. Water level measurements should be recorded at approximate one (1) to two (2) minute intervals until the low-flow rate has been established, and drawdown is minimized. As a general rule, drawdown should not exceed 25% of the distance between the top of the water column and the pump in-take.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity[1]. The frequency between measurements will be at an interval of one (1) to three (3) minutes; however, if a flow cell is used, the frequency will be determined based on the time required to evacuate one cell volume. Stabilization is defined as three (3) consecutive readings recorded several minutes apart falling within ranges provided in Table 1. Samples will be collected by filling appropriate containers from the pump discharge tubing at a rate not to exceed the established pumping rate.

3.3 Minimal Purge, Discrete Depth, and Passive Sampling

Per ASTM D4448-01, sampling techniques that do not rely on purging, or require only minimal purging, may be used if a particular zone within a screened interval is to be sampled or if a well is not capable of yielding sufficient groundwater for purging. To properly use these sampling techniques, a water sample is collected within the screened interval with little or no mixing of the water column within the casing. These techniques include minimal purge sampling which uses a dedicated sampling pump capable of pumping rates of less than 0.1 L/min (0.03 gal/min)[2], discrete depth sampling using a bailer that allows groundwater entry at a controlled depth (e.g. differential pressure bailer), or passive (diffusion) sampling. These techniques are based on certain studies referenced in ASTM D4448-01 that indicate that under certain conditions, natural groundwater flow is laminar and horizontal with little or no mixing within the well screen.

---

[2] According to ASTM D4448-01, studies have indicated that at flow rates of 0.1 L/min, low-density polyethylene (LDPE) and plasticized polypropylene tubing materials are prone to sorption. Therefore, TFE-fluorocarbon or other appropriate tubing material is used, particularly when tubing lengths of 50 feet or longer are used.

4.0 Decontamination

Reusable groundwater sampling equipment were cleaned using a solution of Alconox or other acceptable detergent, rinsed with tap water, and finally rinsed with distilled water prior to use in each well. Decontamination water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal.

5.0 Sample Containers, Labeling, and Storage

Samples were collected in laboratory prepared containers with appropriate preservative (if preservative was required). Samples were properly labeled (site name, sample I.D., sampler initials, date, and time of collection) and stored chilled (refrigerator or ice chest with ice) until delivery to a certified laboratory, under chain of custody procedures.

6.0 Chain of Custody Record and Procedure

The field sampler was personally responsible for care and custody of the samples collected until they were properly transferred to another party. To document custody and transfer of samples, a Chain of Custody Record was prepared. The Chain of Custody Record provided identification of the samples corresponding to sample labels and specified analyses to be performed by the laboratory. The original Chain of Custody Record accompanied the shipment, and a copy of the record was stored in the project file. When the samples were transferred, the individuals relinquishing and receiving them signed, dated, and noted the time of transfer on the record.

7.0 Field Records

Daily Report and data forms were completed by staff personnel to provide daily record of significant events, observations, and measurements. Field records were signed, dated, and stored in the project file.

ARCADIS

Attachment B

Groundwater Sampling Data Package

BROADBENT

GROUNDWATER MONITORING SITE SHEET

Project: Arcadis 11132 Project No.: 09-88-655 Date: 3/28/16

Field Representative(s): FI/JJ Elevation: _____

Formation recharge rate is historically: High Low *(circle one)*

W. L. Indicator ID #: _____ Oil/Water Interface ID #: _____ *(list #s of all equip used)*

WELL ID RECORD						WELL GAUGING RECORD					LAB ANALYSES
Well ID	Well Sampling Order	As-Built Well Diam. (in)	As- Built Well Screen Interval (ft)	Previous Depth to Water (ft)	Previous Total Depth (ft)	Time (24:00)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)*	Depth to Water (ft)	Well Total Depth (ft)	
MW-5	* parked over unable to gauge					~~1045~~			~~10.05~~	~~34.50~~	
MW-6						0935			10.05	34.50	
MW-7						1000	—	—	13.92	34.37	
MW-8						0945	—	—	10.72	30.83	
MW-9						0940	—	—	10.96	24.73	
MW-10R						0955	—	—	12.50	22.54	
MW-11R (E)						0950	—	—	11.32	25.45	
MW-1						1005	—	—	14.78	29.37	
MW-2						1010	—	—	13.55	31.56	
~~MW-3~~						~~1015~~					
RW-1						1020	—	—	12.08	38.56	
MW-4						1025	—	—	16.29	32.95	

not in sample list

* Device used to measure LNAPL thickness: Bailer Oil/Water Interface Meter *(circle one)*

If Bailer used, note bailer dimensions (in): Entry Diameter: _____ Chamber Diameter: _____

Signature: _____

Revision: 12/4/2015

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 1 of 1

Project: Arcadis 11132 Project No.: 09-88-658 Date: 3/28/16

Field Representative: FI/JJ

Well ID: MW-9 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ~~Disp. Bailer~~ ~~120V Pump~~ ___ Flow Cell

___ Disp. Tubing ___ 12V Pump ___ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY ~~(cap, lock, vault, etc.)~~ Comments:

~~Good~~ Improvement Needed *(circle one)* 1 of 2 bolts missing

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:

4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____ (ft)

Initial Depth to Water (b): _____ (ft)

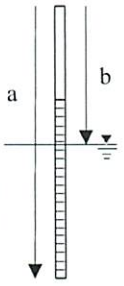
Water Column Height (WCH) = (a - b): _____ (ft)

Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)

Three Casing Volumes = WCV x 3: _____ (gal)

Five Casing Volumes = WCV x 5: _____ (gal)

Pump Depth (if pump used): _____ (ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____ (lpm)

Total Well Depth (a): _____ (ft)

Initial Depth to Water (b): _____ (ft)

Pump In-take Depth = b + (a-b)/2: _____ (ft)

Maximum Allowable Drawdown = (a-b)/8: _____ (ft)

Low-Flow Purge Rate: _____ (gpm)*

Comments: _____

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1035		18.3	7.25	-94			3.96	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes

___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 24.73 (ft)

Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing

___ Disp. Pump Tubing Other: Hydrasleeve

Sample ID: MW-9 Sample Collection Time: 1035 (24:00)

Containers (#): 6 VOA (___ preserved or ___ unpreserved) ___ Liter Amber

___ Other: ___ Other:

___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/20/2013

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 2 of 1

Project: Arcadis 11132 Project No.: 09-88-655 Date: 3/28/15

Field Representative: FI / JJ

Well ID: MW-10R Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump ___ Flow Cell
___ Disp. Tubing ___ 12V Pump ___ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
Good Improvement Needed *(circle one)*

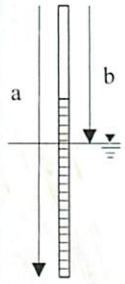
PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____(ft)
Initial Depth to Water (b): _____(ft)
Water Column Height (WCH) = (a - b): _____(ft)
Water Column Volume (WCV) = WCH x Unit Volume: _____(gal)
Three Casing Volumes = WCV x 3: _____(gal)
Five Casing Volumes = WCV x 5: _____(gal)
Pump Depth (if pump used): _____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____(lpm)
Total Well Depth (a): _____(ft)
Initial Depth to Water (b): _____(ft)
Pump In-take Depth = b + (a-b)/2: _____(ft)
Maximum Allowable Drawdown = (a-b)/8: _____(ft)
Low-Flow Purge Rate: _____(gpm)*
Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1105		19.8	6.85	-28			1.82	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 22.54 (ft)
Sample Collected Via: ___ Disp. Bailer Dedicated Pump Tubing
~~Disp. Pump Tubing~~ Other: Hydrasleeve
Sample ID: MW-10 Sample Collection Time: 1105 (24:00)
Containers (#): 6 VOA (✓ preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/20/2013

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 1 of 1

Project: Arcadis 11132 Project No.: D9-88-655 Date: 3/28/16

Field Representative: FI/JJ

Well ID: MW-11R (FI) Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump ___ Flow Cell
___ Disp. Tubing ___ 12V Pump ___ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____
Good Improvement Needed *(circle one)*

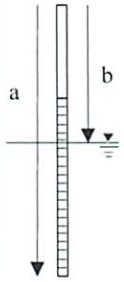
PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:
4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____ (ft)
Initial Depth to Water (b): _____ (ft)
Water Column Height (WCH) = (a - b): _____ (ft)
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)
Three Casing Volumes = WCV x 3: _____ (gal)
Five Casing Volumes = WCV x 5: _____ (gal)
Pump Depth (if pump used): _____ (ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____ (lpm)
Total Well Depth (a): _____ (ft)
Initial Depth to Water (b): _____ (ft)
Pump In-take Depth = b + (a-b)/2: _____ (ft)
Maximum Allowable Drawdown = (a-b)/8: _____ (ft)
Low-Flow Purge Rate: _____ (gpm)*
Comments: _____

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1055		20.1	7.29	123			1.12	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 25.45 (ft)
Sample Collected Via: ~~Disp. Bailer~~ ___ Dedicated Pump Tubing
~~Disp. Pump Tubing~~ Other: Hydrasleeve
Sample ID: MW-11R Sample Collection Time: 1055 (24:00)
Containers (#): 6 VOA (___ preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ Other:
___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/20/2013

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: Arcadis, 11132 Project No.: 09-88-655 Date: 3/28/16

Field Representative: FL/JJ

Well ID: MW-2 Start Time: ____ End Time: ____ Total Time (minutes): ____

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump ___ Flow Cell ___ Disp. Tubing ___ 12V Pump ___ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:

(Good) Improvement Needed *(circle one)*

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:

4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ___" | (___)

Total Well Depth (a): ____ (ft)

Initial Depth to Water (b): ____ (ft)

Water Column Height (WCH) = (a - b): ____ (ft)

Water Column Volume (WCV) = WCH x Unit Volume: ____ (gal)

Three Casing Volumes = WCV x 3: ____ (gal)

Five Casing Volumes = WCV x 5: ____ (gal)

Pump Depth (if pump used): ____ (ft)

LOW-FLOW

Previous Low-Flow Purge Rate: ____ (lpm)

Total Well Depth (a): ____ (ft)

Initial Depth to Water (b): ____ (ft)

Pump In-take Depth = b + (a-b)/2: ____ (ft)

Maximum Allowable Drawdown = (a-b)/8: ____ (ft)

Low-Flow Purge Rate: ____ (gpm)*

Comments:

Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1130		20.2	6.67	-69			1.64	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes

Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 31.56 (ft)

Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing

___ Disp. Pump Tubing Other: Hydrasleeve

Sample ID: MW-2 Sample Collection Time: 1130 (24:00)

Containers (#): 6 VOA (✓ preserved or ___ unpreserved) ___ Liter Amber

___ Other: ___ Other:

___ Other: ___ Other:

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: [signature]

Revision: 8/20/2013

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: Arcadis 11132 Project No.: 09-88-655 Date: 3/28/11

Field Representative: FI/JJ

Well ID: MW-5 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump ___ ~~Flow Cell~~ ~~Disp. Tubing~~ ___ 12V Pump ___ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:

Good Improvement Needed *(circle one)*

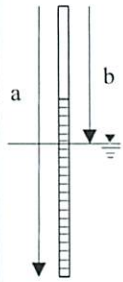
PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:

4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)



Total Well Depth (a): _____(ft)

Initial Depth to Water (b): _____(ft)

Water Column Height (WCH) = (a - b): _____(ft)

Water Column Volume (WCV) = WCH x Unit Volume: _____(gal)

Three Casing Volumes = WCV x 3: _____(gal)

Five Casing Volumes = WCV x 5: _____(gal)

Pump Depth (if pump used): _____(ft)

LOW-FLOW

Previous Low-Flow Purge Rate: _____(lpm)

Total Well Depth (a): _____(ft)

Initial Depth to Water (b): _____(ft)

Pump In-take Depth = b + (a-b)/2: _____(ft)

Maximum Allowable Drawdown = (a-b)/8: _____(ft)

Low-Flow Purge Rate: _____(gpm)*

Comments:

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
	* Unable to sample all day					Parked over		
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes ___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: _____(ft)

Sample Collected Via: ___ Disp. Bailer ___ Dedicated Pump Tubing ___ Disp. Pump Tubing Other:

Sample ID: _____ Sample Collection Time: _____(24:00)

Containers (#): ___ VOA (___ preserved or ___ unpreserved) ___ Liter Amber

___ Other: _____ ___ Other: _____

___ Other: _____ ___ Other: _____

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/20/2013

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Project: Arcadis 11132 Project No.: 09-88-655 Date: 3/28/16

Field Representative: FI/JJ

Well ID: MW-4 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ___ Disp. Bailer 120V Pump ___ Flow Cell
___ Disp. Tubing ___ 12V Pump ___ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:
Good Improvement Needed *(circle one)*

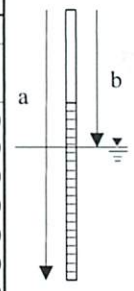
PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04)	1.25" | (0.08)	2" | (0.17)	3" | (0.38)	Other:
4" | (0.66)	6" | (1.50)	8" | (2.60)	12" | (5.81)	___" | (___)

Total Well Depth (a): _____ (ft)
Initial Depth to Water (b): _____ (ft)
Water Column Height (WCH) = (a - b): _____ (ft)
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)
Three Casing Volumes = WCV x 3: _____ (gal)
Five Casing Volumes = WCV x 5: _____ (gal)
Pump Depth (if pump used): _____ (ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____ (lpm)
Total Well Depth (a): _____ (ft)
Initial Depth to Water (b): _____ (ft)
Pump In-take Depth = b + (a-b)/2: _____ (ft)
Maximum Allowable Drawdown = (a-b)/8: _____ (ft)
Low-Flow Purge Rate: _____ (gpm)*
Comments: _____

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1150		24.5	7.25	-99			2.27	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 32.95 (ft)
Sample Collected Via: ~~Disp. Bailer~~ ___ Dedicated Pump Tubing
~~Disp. Pump Tubing~~ Other: Hydrasleeve
Sample ID: MW-4 Sample Collection Time: 1150 (24:00)
Containers (#): 6 VOA (✓ preserved or ___ unpreserved) ___ Liter Amber
___ Other: ___ ___ Other: ___
___ Other: ___ ___ Other: ___

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 1 of 1

Project: Arcadis 11132 Project No.: 09-88-655 Date: 3/28/16

Field Representative: FIJ

Well ID: MW-8 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ~~Disp. Bailer~~ ___ 120V Pump ___ Flow Cell

~~Disp. Tubing~~ ___ 12V Pump ~~Peristaltic Pump~~ Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____

Good Improvement Needed *(circle one)*

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:

4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____ (ft)

Initial Depth to Water (b): _____ (ft)

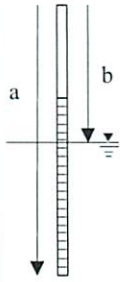
Water Column Height (WCH) = (a - b): _____ (ft)

Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)

Three Casing Volumes = WCV x 3: _____ (gal)

Five Casing Volumes = WCV x 5: _____ (gal)

Pump Depth (if pump used): _____ (ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____ (lpm)

Total Well Depth (a): _____ (ft)

Initial Depth to Water (b): _____ (ft)

Pump In-take Depth = b + (a-b)/2: _____ (ft)

Maximum Allowable Drawdown = (a-b)/8: _____ (ft)

Low-Flow Purge Rate: _____ (gpm)*

Comments: _____

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1045		18.4	6.75	-22			1.56	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes

___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 30.83 (ft)

Sample Collected Via: ~~Disp. Bailer~~ ___ Dedicated Pump Tubing

~~Disp. Pump Tubing~~ Other: hydrasleeve

Sample ID: MW-8 Sample Collection Time: 1045 (24:00)

Containers (#): 2 VOA (2 preserved or ___ unpreserved) ___ Liter Amber

___ Other: _____ ___ Other: _____

___ Other: _____ ___ Other: _____

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/20/2013

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 1 of 1

Project: Arcadis 11132 Project No.: 09-88-655 Date: 3/28/16

Field Representative: FI/JJ

Well ID: MW-1 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT — Disp. Bailer — 120V Pump — Flow Cell — Disp. Tubing — 12V Pump — Peristaltic Pump — Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____

Good — Improvement Needed *(circle one)*

PURGING/SAMPLING METHOD — Predetermined Well Volume — Low-Flow — Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:

4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____ (ft)

Initial Depth to Water (b): _____ (ft)

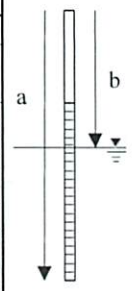
Water Column Height (WCH) = (a - b): _____ (ft)

Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)

Three Casing Volumes = WCV x 3: _____ (gal)

Five Casing Volumes = WCV x 5: _____ (gal)

Pump Depth (if pump used): _____ (ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____ (lpm)

Total Well Depth (a): _____ (ft)

Initial Depth to Water (b): _____ (ft)

Pump In-take Depth = b + (a-b)/2: _____ (ft)

Maximum Allowable Drawdown = (a-b)/8: _____ (ft)

Low-Flow Purge Rate: _____ (gpm)*

Comments: _____

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1140		20.7	7.18	-142			6.75	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes

___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 29.37 (ft)

Sample Collected Via: ~~Disp. Bailer~~ ___ Dedicated Pump Tubing

~~Disp. Pump Tubing~~ Other: Hydrasleeve

Sample ID: MW-1 Sample Collection Time: 1140 (24:00)

Containers (#): 6 VOA (___ preserved or ___ unpreserved) ___ Liter Amber

___ Other: _____ ___ Other: _____

___ Other: _____ ___ Other: _____

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/20/2013

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 1 of 1

Project: Arcadis Project No.: 09-88.655 Date: 3/28/16

Field Representative: FI/JJ

Well ID: DW-1 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ~~Disp. Bailer~~ ~~120V Pump~~ ~~Flow Cell~~ ~~Disp. Tubing~~ ~~12V Pump~~ ~~Peristaltic Pump~~ ~~Other/ID#:~~

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____

Good Improvement Needed *(circle one)*

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:

4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____(ft)

Initial Depth to Water (b): _____(ft)

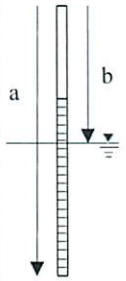
Water Column Height (WCH) = (a - b): _____(ft)

Water Column Volume (WCV) = WCH x Unit Volume: _____(gal)

Three Casing Volumes = WCV x 3: _____(gal)

Five Casing Volumes = WCV x 5: _____(gal)

Pump Depth (if pump used): _____(ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____(lpm)

Total Well Depth (a): _____(ft)

Initial Depth to Water (b): _____(ft)

Pump In-take Depth = b + (a-b)/2: _____(ft)

Maximum Allowable Drawdown = (a-b)/8: _____(ft)

Low-Flow Purge Rate: _____(gpm)*

Comments: _____

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1126		19.1	7.02	-112			1.01	
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes

___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 26.56 (ft)

Sample Collected Via: ___ Disp. Bailer ~~Dedicated Pump Tubing~~ ~~Disp. Pump Tubing~~ Other: Hydrasleeve

Sample ID: DW-1 Sample Collection Time: 1120 (24:00)

Containers (#): 6 VOA (✓ preserved or ___ unpreserved) ___ Liter Amber

___ Other: _____ ___ Other: _____

___ Other: _____ ___ Other: _____

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/20/2013

BROADBENT

GROUNDWATER SAMPLING DATA SHEET

Page 1 of 1

Project: Arcadis 11132 Project No.: 09-88-655 Date: 3/28/18

Field Representative: FHJ

Well ID: MW-7 Start Time: _____ End Time: _____ Total Time (minutes): _____

PURGE EQUIPMENT ___ Disp. Bailer ___ 120V Pump ___ ~~Flow Cell~~ ~~Disp. Tubing~~ ___ 12V Pump ___ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments:

Good Improvement Needed *(circle one)*

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: *(circle one)*

PREDETERMINED WELL VOLUME

Casing Diameter | Unit Volume (gal/ft) *(circle one)*

1" | (0.04) 1.25" | (0.08) 2" | (0.17) 3" | (0.38) Other:

4" | (0.66) 6" | (1.50) 8" | (2.60) 12" | (5.81) ____" | (____)

Total Well Depth (a): _____ (ft)

Initial Depth to Water (b): _____ (ft)

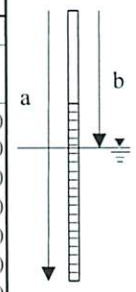
Water Column Height (WCH) = (a - b): _____ (ft)

Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)

Three Casing Volumes = WCV x 3: _____ (gal)

Five Casing Volumes = WCV x 5: _____ (gal)

Pump Depth (if pump used): _____ (ft)



LOW-FLOW

Previous Low-Flow Purge Rate: _____ (lpm)

Total Well Depth (a): _____ (ft)

Initial Depth to Water (b): _____ (ft)

Pump In-take Depth = b + (a-b)/2: _____ (ft)

Maximum Allowable Drawdown = (a-b)/8: _____ (ft)

Low-Flow Purge Rate: _____ (gpm)*

Comments: _____

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C or °F	pH	ORP mV	Conductivity µS or mS	Turbidity NTU	DO mg/L	NOTES Odor, color, sheen or other
1110	* Fished out	19.6	7.01	2 hydrasleeve,		had fallen	2.51	into well
Previous Stabilized Parameters								

PURGE COMPLETION RECORD ___ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes

___ Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 34.37 (ft)

Sample Collected Via: ~~___ Disp. Bailer~~ ___ Dedicated Pump Tubing

___ Disp. Pump Tubing Other: ~~[redacted]~~ Hydrasleeve

Sample ID: MW-7 Sample Collection Time: 1110 (24:00)

Containers (#): 6 VOA (___ preserved or ___ unpreserved) ___ Liter Amber

___ Other: _____ ___ Other: _____

___ Other: _____ ___ Other: _____

GEOCHEMICAL PARAMETERS

Parameter	Time	Measurement
DO (mg/L)		
Ferrous Iron (mg/L)		
Redox Potential (mV)		
Alkalinity (mg/L)		
Other:		
Other:		

Signature: _____

Revision: 8/20/2013

ARCADIS

Attachment C

Certified Laboratory Analytical Report
and Chain of Custody
Documentation

ANALYTICAL REPORT

April 08, 2016

ARCADIS US - San Francisco, CA

Sample Delivery Group:	L826190
Samples Received:	03/29/2016
Project Number:	GP09BPNA.C112
Description:	CA-11132 - GP09BPNA.C112
Site:	3201 35TH AVENUE
Report To:	Megan Smoley 865 Cotting Lane, Suite C Vacaville, CA 95688

Entire Report Reviewed By:

Jarred Willis
Technical Service Representative

TABLE OF CONTENTS

MW-1 L826190-01 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 11:40
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	25	04/03/16 01:40	04/03/16 01:40	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	10	04/05/16 05:13	04/05/16 05:13	GLN

MW-2 L826190-02 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 11:30
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	25	04/03/16 01:05	04/03/16 01:05	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	50	04/05/16 05:34	04/05/16 05:34	GLN

MW-4 L826190-03 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 11:50
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	1	04/03/16 01:30	04/03/16 01:30	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	1	04/05/16 05:55	04/05/16 05:55	GLN

MW-7 L826190-04 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 11:10
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	1	04/03/16 01:54	04/03/16 01:54	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	1	04/05/16 06:15	04/05/16 06:15	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG862251	20	04/06/16 16:28	04/06/16 16:28	GLN

MW-8 L826190-05 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 10:45
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	10	04/03/16 03:19	04/03/16 03:19	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	1	04/05/16 06:36	04/05/16 06:36	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG862251	50	04/06/16 16:49	04/06/16 16:49	GLN

MW-9 L826190-06 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 10:35
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	10	04/03/16 03:44	04/03/16 03:44	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	1	04/05/16 06:57	04/05/16 06:57	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG862251	1	04/06/16 17:10	04/06/16 17:10	GLN

RW-1 L826190-07 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 11:20
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	1	04/03/16 04:09	04/03/16 04:09	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	1	04/05/16 07:18	04/05/16 07:18	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG862251	1	04/06/16 17:31	04/06/16 17:31	GLN

MW-10R L826190-08 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 11:05
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	25	04/03/16 04:33	04/03/16 04:33	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	1	04/05/16 07:38	04/05/16 07:38	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG862251	200	04/06/16 17:52	04/06/16 17:52	GLN

MW-11 L826190-09 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 10:55
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861552	1	04/03/16 04:58	04/03/16 04:58	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	1	04/05/16 07:59	04/05/16 07:59	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG862251	1	04/06/16 18:14	04/06/16 18:14	GLN

TB-11132-16328 L826190-10 GW

Collected by: Fernando Idiarte
Collected date/time: 03/28/16 00:00
Received date/time: 03/29/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015B	WG861569	1	04/03/16 21:53	04/03/16 21:53	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861137	1	04/05/16 02:06	04/05/16 02:06	GLN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jarred Willis
Technical Service Representative

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	8110		790	2500	25	04/03/2016 01:40	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*62.0-128*		*04/03/2016 01:40*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	6.67	J	3.31	10.0	10	04/05/2016 05:13	WG861137
Toluene	U		7.80	50.0	10	04/05/2016 05:13	WG861137
Ethylbenzene	59.6		3.84	10.0	10	04/05/2016 05:13	WG861137
Total Xylenes	U		10.6	30.0	10	04/05/2016 05:13	WG861137
1,2-Dichloroethane	U		3.61	10.0	10	04/05/2016 05:13	WG861137
1,2-Dibromoethane	U		3.81	10.0	10	04/05/2016 05:13	WG861137
Di-isopropyl ether	U	J3	3.20	10.0	10	04/05/2016 05:13	WG861137
Ethanol	U		420	1000	10	04/05/2016 05:13	WG861137
Ethyl tert-butyl ether	U		2.70	10.0	10	04/05/2016 05:13	WG861137
Methyl tert-butyl ether	5.80	J	3.67	10.0	10	04/05/2016 05:13	WG861137
tert-Butyl alcohol	43.5	J	24.0	50.0	10	04/05/2016 05:13	WG861137
tert-Amyl Methyl Ether	U		2.60	10.0	10	04/05/2016 05:13	WG861137
(S) Toluene-d8	*99.2*			*90.0-115*		*04/05/2016 05:13*	WG861137
(S) Dibromofluoromethane	*88.4*			*79.0-121*		*04/05/2016 05:13*	WG861137
(S) a,a,a-Trifluorotoluene	*108*			*90.4-116*		*04/05/2016 05:13*	WG861137
(S) 4-Bromofluorobenzene	*103*			*80.1-120*		*04/05/2016 05:13*	WG861137

Sample Narrative:

8260B L826190-01 WG861137: Non-target compounds too high to run at a lower dilution.

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	36500		790	2500	25	04/03/2016 01:05	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*89.3*			*62.0-128*		*04/03/2016 01:05*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	7360		16.6	50.0	50	04/05/2016 05:34	WG861137
Toluene	609		39.0	250	50	04/05/2016 05:34	WG861137
Ethylbenzene	1350		19.2	50.0	50	04/05/2016 05:34	WG861137
Total Xylenes	3140		53.0	150	50	04/05/2016 05:34	WG861137
1,2-Dichloroethane	U		18.0	50.0	50	04/05/2016 05:34	WG861137
1,2-Dibromoethane	U		19.0	50.0	50	04/05/2016 05:34	WG861137
Di-isopropyl ether	U	J3	16.0	50.0	50	04/05/2016 05:34	WG861137
Ethanol	U		2100	5000	50	04/05/2016 05:34	WG861137
Ethyl tert-butyl ether	U		13.5	50.0	50	04/05/2016 05:34	WG861137
Methyl tert-butyl ether	118		18.4	50.0	50	04/05/2016 05:34	WG861137
tert-Butyl alcohol	463		120	250	50	04/05/2016 05:34	WG861137
tert-Amyl Methyl Ether	U		13.0	50.0	50	04/05/2016 05:34	WG861137
(S) Toluene-d8	*100*			*90.0-115*		*04/05/2016 05:34*	WG861137
(S) Dibromofluoromethane	*84.6*			*79.0-121*		*04/05/2016 05:34*	WG861137
(S) a,a,a-Trifluorotoluene	*107*			*90.4-116*		*04/05/2016 05:34*	WG861137
(S) 4-Bromofluorobenzene	*101*			*80.1-120*		*04/05/2016 05:34*	WG861137

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	U		31.6	100	1	04/03/2016 01:30	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*92.6*			*62.0-128*		*04/03/2016 01:30*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	04/05/2016 05:55	WG861137
Toluene	U		0.780	5.00	1	04/05/2016 05:55	WG861137
Ethylbenzene	U		0.384	1.00	1	04/05/2016 05:55	WG861137
Total Xylenes	U		1.06	3.00	1	04/05/2016 05:55	WG861137
1,2-Dichloroethane	U		0.361	1.00	1	04/05/2016 05:55	WG861137
1,2-Dibromoethane	U		0.381	1.00	1	04/05/2016 05:55	WG861137
Di-isopropyl ether	U	J3	0.320	1.00	1	04/05/2016 05:55	WG861137
Ethanol	U		42.0	100	1	04/05/2016 05:55	WG861137
Ethyl tert-butyl ether	U		0.270	1.00	1	04/05/2016 05:55	WG861137
Methyl tert-butyl ether	15.0		0.367	1.00	1	04/05/2016 05:55	WG861137
tert-Butyl alcohol	U		2.40	5.00	1	04/05/2016 05:55	WG861137
tert-Amyl Methyl Ether	U		0.260	1.00	1	04/05/2016 05:55	WG861137
(S) Toluene-d8	*101*			*90.0-115*		*04/05/2016 05:55*	WG861137
(S) Dibromofluoromethane	*89.5*			*79.0-121*		*04/05/2016 05:55*	WG861137
(S) a,a,a-Trifluorotoluene	*108*			*90.4-116*		*04/05/2016 05:55*	WG861137
(S) 4-Bromofluorobenzene	*100*			*80.1-120*		*04/05/2016 05:55*	WG861137

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	222		31.6	100	1	04/03/2016 01:54	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*90.1*			*62.0-128*		*04/03/2016 01:54*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	04/05/2016 06:15	WG861137
Toluene	U		0.780	5.00	1	04/05/2016 06:15	WG861137
Ethylbenzene	U		0.384	1.00	1	04/05/2016 06:15	WG861137
Total Xylenes	U		1.06	3.00	1	04/05/2016 06:15	WG861137
1,2-Dichloroethane	U		0.361	1.00	1	04/05/2016 06:15	WG861137
1,2-Dibromoethane	U		0.381	1.00	1	04/05/2016 06:15	WG861137
Di-isopropyl ether	U	J3	0.320	1.00	1	04/05/2016 06:15	WG861137
Ethanol	U		42.0	100	1	04/05/2016 06:15	WG861137
Ethyl tert-butyl ether	U		0.270	1.00	1	04/05/2016 06:15	WG861137
Methyl tert-butyl ether	458		7.34	20.0	20	04/06/2016 16:28	WG862251
tert-Butyl alcohol	U		2.40	5.00	1	04/05/2016 06:15	WG861137
tert-Amyl Methyl Ether	7.00		0.260	1.00	1	04/05/2016 06:15	WG861137
(S) Toluene-d8	*100*			*90.0-115*		*04/05/2016 06:15*	WG861137
(S) Dibromofluoromethane	*91.7*			*79.0-121*		*04/05/2016 06:15*	WG861137
(S) a,a,a-Trifluorotoluene	*108*			*90.4-116*		*04/05/2016 06:15*	WG861137
(S) 4-Bromofluorobenzene	*102*			*80.1-120*		*04/05/2016 06:15*	WG861137

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	14100		316	1000	10	04/03/2016 03:19	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*62.0-128*		*04/03/2016 03:19*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	167		0.331	1.00	1	04/05/2016 06:36	WG861137
Toluene	53.8		0.780	5.00	1	04/05/2016 06:36	WG861137
Ethylbenzene	835		19.2	50.0	50	04/06/2016 16:49	WG862251
Total Xylenes	1330		53.0	150	50	04/06/2016 16:49	WG862251
1,2-Dichloroethane	U		0.361	1.00	1	04/05/2016 06:36	WG861137
1,2-Dibromoethane	U		0.381	1.00	1	04/05/2016 06:36	WG861137
Di-isopropyl ether	U	J3	0.320	1.00	1	04/05/2016 06:36	WG861137
Ethanol	U		42.0	100	1	04/05/2016 06:36	WG861137
Ethyl tert-butyl ether	U		0.270	1.00	1	04/05/2016 06:36	WG861137
Methyl tert-butyl ether	U		18.4	50.0	50	04/06/2016 16:49	WG862251
tert-Butyl alcohol	3.70	J	2.40	5.00	1	04/05/2016 06:36	WG861137
tert-Amyl Methyl Ether	U		0.260	1.00	1	04/05/2016 06:36	WG861137
(S) Toluene-d8	*99.4*			*90.0-115*		*04/05/2016 06:36*	WG861137
(S) Dibromofluoromethane	*84.1*			*79.0-121*		*04/05/2016 06:36*	WG861137
(S) a,a,a-Trifluorotoluene	*107*			*90.4-116*		*04/05/2016 06:36*	WG861137
(S) 4-Bromofluorobenzene	*103*			*80.1-120*		*04/05/2016 06:36*	WG861137

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	7630		316	1000	10	04/03/2016 03:44	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*62.0-128*		*04/03/2016 03:44*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	4.41		0.331	1.00	1	04/05/2016 06:57	WG861137
Toluene	U		0.780	5.00	1	04/05/2016 06:57	WG861137
Ethylbenzene	26.8		0.384	1.00	1	04/06/2016 17:10	WG862251
Total Xylenes	6.32		1.06	3.00	1	04/06/2016 17:10	WG862251
1,2-Dichloroethane	U		0.361	1.00	1	04/05/2016 06:57	WG861137
1,2-Dibromoethane	U		0.381	1.00	1	04/05/2016 06:57	WG861137
Di-isopropyl ether	U	J3	0.320	1.00	1	04/05/2016 06:57	WG861137
Ethanol	U		42.0	100	1	04/05/2016 06:57	WG861137
Ethyl tert-butyl ether	U		0.270	1.00	1	04/05/2016 06:57	WG861137
Methyl tert-butyl ether	U		0.367	1.00	1	04/05/2016 06:57	WG861137
tert-Butyl alcohol	U		2.40	5.00	1	04/05/2016 06:57	WG861137
tert-Amyl Methyl Ether	U		0.260	1.00	1	04/05/2016 06:57	WG861137
(S) Toluene-d8	*95.6*			*90.0-115*		*04/05/2016 06:57*	WG861137
(S) Dibromofluoromethane	*87.8*			*79.0-121*		*04/05/2016 06:57*	WG861137
(S) a,a,a-Trifluorotoluene	*105*			*90.4-116*		*04/05/2016 06:57*	WG861137
(S) 4-Bromofluorobenzene	*98.3*			*80.1-120*		*04/05/2016 06:57*	WG861137

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	199		31.6	100	1	04/03/2016 04:09	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*62.0-128*		*04/03/2016 04:09*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	04/05/2016 07:18	WG861137
Toluene	U		0.780	5.00	1	04/05/2016 07:18	WG861137
Ethylbenzene	U		0.384	1.00	1	04/06/2016 17:31	WG862251
Total Xylenes	U		1.06	3.00	1	04/05/2016 07:18	WG861137
1,2-Dichloroethane	U		0.361	1.00	1	04/05/2016 07:18	WG861137
1,2-Dibromoethane	U		0.381	1.00	1	04/05/2016 07:18	WG861137
Di-isopropyl ether	U	J3	0.320	1.00	1	04/05/2016 07:18	WG861137
Ethanol	U		42.0	100	1	04/05/2016 07:18	WG861137
Ethyl tert-butyl ether	U		0.270	1.00	1	04/05/2016 07:18	WG861137
Methyl tert-butyl ether	U		0.367	1.00	1	04/05/2016 07:18	WG861137
tert-Butyl alcohol	U		2.40	5.00	1	04/05/2016 07:18	WG861137
tert-Amyl Methyl Ether	U		0.260	1.00	1	04/05/2016 07:18	WG861137
(S) Toluene-d8	*98.8*			*90.0-115*		*04/05/2016 07:18*	WG861137
(S) Dibromofluoromethane	*88.3*			*79.0-121*		*04/05/2016 07:18*	WG861137
(S) a,a,a-Trifluorotoluene	*109*			*90.4-116*		*04/05/2016 07:18*	WG861137
(S) 4-Bromofluorobenzene	*105*			*80.1-120*		*04/05/2016 07:18*	WG861137

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHG C6 - C12	38000		790	2500	25	04/03/2016 04:33	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*91.6*			*62.0-128*		*04/03/2016 04:33*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	3830		66.2	200	200	04/06/2016 17:52	WG862251
Toluene	2810		156	1000	200	04/06/2016 17:52	WG862251
Ethylbenzene	1130		76.8	200	200	04/06/2016 17:52	WG862251
Total Xylenes	5310		212	600	200	04/06/2016 17:52	WG862251
1,2-Dichloroethane	U		0.361	1.00	1	04/05/2016 07:38	WG861137
1,2-Dibromoethane	U		0.381	1.00	1	04/05/2016 07:38	WG861137
Di-isopropyl ether	U	J3	0.320	1.00	1	04/05/2016 07:38	WG861137
Ethanol	U		42.0	100	1	04/05/2016 07:38	WG861137
Ethyl tert-butyl ether	U		0.270	1.00	1	04/05/2016 07:38	WG861137
Methyl tert-butyl ether	1.30		0.367	1.00	1	04/05/2016 07:38	WG861137
tert-Butyl alcohol	40.5		2.40	5.00	1	04/05/2016 07:38	WG861137
tert-Amyl Methyl Ether	U		0.260	1.00	1	04/05/2016 07:38	WG861137
(S) Toluene-d8	*101*			*90.0-115*		*04/05/2016 07:38*	WG861137
(S) Dibromofluoromethane	*83.3*			*79.0-121*		*04/05/2016 07:38*	WG861137
(S) a,a,a-Trifluorotoluene	*107*			*90.4-116*		*04/05/2016 07:38*	WG861137
(S) 4-Bromofluorobenzene	*112*			*80.1-120*		*04/05/2016 07:38*	WG861137

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	U		31.6	100	1	04/03/2016 04:58	WG861552
(S) a,a,a-Trifluorotoluene(FID)	*91.8*			*62.0-128*		*04/03/2016 04:58*	WG861552

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	04/06/2016 18:14	WG862251
Toluene	U		0.780	5.00	1	04/06/2016 18:14	WG862251
Ethylbenzene	U		0.384	1.00	1	04/06/2016 18:14	WG862251
Total Xylenes	U		1.06	3.00	1	04/06/2016 18:14	WG862251
1,2-Dichloroethane	U		0.361	1.00	1	04/05/2016 07:59	WG861137
1,2-Dibromoethane	U		0.381	1.00	1	04/05/2016 07:59	WG861137
Di-isopropyl ether	U	J3	0.320	1.00	1	04/05/2016 07:59	WG861137
Ethanol	U		42.0	100	1	04/05/2016 07:59	WG861137
Ethyl tert-butyl ether	U		0.270	1.00	1	04/05/2016 07:59	WG861137
Methyl tert-butyl ether	U		0.367	1.00	1	04/05/2016 07:59	WG861137
tert-Butyl alcohol	U		2.40	5.00	1	04/05/2016 07:59	WG861137
tert-Amyl Methyl Ether	U		0.260	1.00	1	04/05/2016 07:59	WG861137
(S) Toluene-d8	*102*			*90.0-115*		*04/05/2016 07:59*	WG861137
(S) Dibromofluoromethane	*87.2*			*79.0-121*		*04/05/2016 07:59*	WG861137
(S) a,a,a-Trifluorotoluene	*107*			*90.4-116*		*04/05/2016 07:59*	WG861137
(S) 4-Bromofluorobenzene	*105*			*80.1-120*		*04/05/2016 07:59*	WG861137

Volatile Organic Compounds (GC) by Method 8015B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C6 - C12	U		31.6	100	1	04/03/2016 21:53	WG861569
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*62.0-128*		*04/03/2016 21:53*	WG861569

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	04/05/2016 02:06	WG861137
Toluene	U		0.780	5.00	1	04/05/2016 02:06	WG861137
Ethylbenzene	U		0.384	1.00	1	04/05/2016 02:06	WG861137
Total Xylenes	U		1.06	3.00	1	04/05/2016 02:06	WG861137
1,2-Dichloroethane	U		0.361	1.00	1	04/05/2016 02:06	WG861137
1,2-Dibromoethane	U		0.381	1.00	1	04/05/2016 02:06	WG861137
Di-isopropyl ether	U	J3	0.320	1.00	1	04/05/2016 02:06	WG861137
Ethanol	U		42.0	100	1	04/05/2016 02:06	WG861137
Ethyl tert-butyl ether	U		0.270	1.00	1	04/05/2016 02:06	WG861137
Methyl tert-butyl ether	U		0.367	1.00	1	04/05/2016 02:06	WG861137
tert-Butyl alcohol	U		2.40	5.00	1	04/05/2016 02:06	WG861137
tert-Amyl Methyl Ether	U		0.260	1.00	1	04/05/2016 02:06	WG861137
(S) Toluene-d8	*100*			*90.0-115*		*04/05/2016 02:06*	WG861137
(S) Dibromofluoromethane	*90.5*			*79.0-121*		*04/05/2016 02:06*	WG861137
(S) a,a,a-Trifluorotoluene	*109*			*90.4-116*		*04/05/2016 02:06*	WG861137
(S) 4-Bromofluorobenzene	*102*			*80.1-120*		*04/05/2016 02:06*	WG861137

Method Blank (MB)

(MB) R3125941-5 04/02/16 15:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPHG C6 - C12	U		0.0316	0.100
(S) a,a,a-Trifluorotoluene(FID)	*92.3*			*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3125941-3 04/02/16 14:07 • (LCSD) R3125941-4 04/02/16 14:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHG C6 - C12	5.50	5.80	5.69	106	103	66.0-123			1.99	20
(S) a,a,a-Trifluorotoluene(FID)				*102*	*100*	*62.0-128*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L826164-02 04/05/16 15:08 • (MS) R3126544-1 04/05/16 16:45 • (MSD) R3126544-2 04/05/16 17:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHG C6 - C12	5.50	1.52	7.14	7.37	102	106	1	47.5-136			3.23	20
(S) a,a,a-Trifluorotoluene(FID)					*102*	*105*		*62.0-128*				

Method Blank (MB)

(MB) R3126375-3 04/03/16 20:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPHG C6 - C12	U		0.0316	0.100
(S) a,a,a-Trifluorotoluene(FID)	*92.7*			*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126375-1 04/03/16 18:53 • (LCSD) R3126375-2 04/03/16 19:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPHG C6 - C12	5.50	5.52	5.25	100	95.5	66.0-123			4.97	20
(S) a,a,a-Trifluorotoluene(FID)				*100*	*99.9*	*62.0-128*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L826264-01 04/03/16 22:18 • (MS) R3126375-4 04/03/16 20:38 • (MSD) R3126375-5 04/03/16 21:03

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPHG C6 - C12	5.50	ND	1.47	1.22	26.7	22.2	1	47.5-136	J6	J6	18.1	20
(S) a,a,a-Trifluorotoluene(FID)					*94.5*	*94.2*		*62.0-128*				

Method Blank (MB)

(MB) R3126485-1 04/04/16 23:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
1,2-Dibromoethane	U		0.000381	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Ethanol	U		0.0420	0.100
Methyl tert-butyl ether	U		0.000367	0.00100
Toluene	U		0.000780	0.00500
Xylenes, Total	U		0.00106	0.00300
tert-Amyl Methyl Ether	U		0.000260	0.00100
Ethyl tert-butyl ether	U		0.000270	0.00100
tert-Butyl alcohol	U		0.00240	0.00500
(S) Toluene-d8	*101*			*90.0-115*
(S) Dibromofluoromethane	*88.3*			*79.0-121*
(S) a,a,a-Trifluorotoluene	*111*			*90.4-116*
(S) 4-Bromofluorobenzene	*102*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126485-2 04/04/16 23:52 • (LCSD) R3126485-3 04/05/16 00:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0225	0.0223	89.8	89.2	73.0-122			0.670	20
1,2-Dibromoethane	0.0250	0.0244	0.0240	97.6	96.0	79.8-122			1.66	20
1,2-Dichloroethane	0.0250	0.0192	0.0189	77.0	75.7	65.3-126			1.67	20
Di-isopropyl ether	0.0250	0.0215	0.0273	86.2	109	65.1-135		J3	23.5	20
Ethylbenzene	0.0250	0.0255	0.0259	102	104	80.9-121			1.43	20
Methyl tert-butyl ether	0.0250	0.0200	0.0227	79.9	90.9	70.1-125			13.0	20
Toluene	0.0250	0.0239	0.0236	95.4	94.4	77.9-116			1.08	20
Xylenes, Total	0.0750	0.0757	0.0764	101	102	79.2-122			0.880	20
(S) Toluene-d8				*99.6*	*99.3*	*90.0-115*				
(S) Dibromofluoromethane				*88.0*	*91.7*	*79.0-121*				
(S) a,a,a-Trifluorotoluene				*107*	*107*	*90.4-116*				
(S) 4-Bromofluorobenzene				*101*	*103*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS)

(OS) L826131-01 04/05/16 02:27 • (MS) R3126485-4 04/05/16 00:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Benzene	0.0250	ND	0.0186	74.4	1	58.6-133	
1,2-Dibromoethane	0.0250	ND	0.0226	90.2	1	73.8-131	
1,2-Dichloroethane	0.0250	ND	0.0169	67.5	1	60.7-132	
Di-isopropyl ether	0.0250	ND	0.0188	75.1	1	59.9-140	
Ethylbenzene	0.0250	ND	0.0216	86.6	1	62.7-136	
Methyl tert-butyl ether	0.0250	ND	0.0183	73.4	1	61.4-136	
Toluene	0.0250	ND	0.0202	80.9	1	67.8-124	
Xylenes, Total	0.0750	ND	0.0639	85.2	1	65.6-133	
(S) Toluene-d8				*99.7*		*90.0-115*	
(S) Dibromofluoromethane				*88.2*		*79.0-121*	
(S) a,a,a-Trifluorotoluene				*107*		*90.4-116*	
(S) 4-Bromofluorobenzene				*101*		*80.1-120*	

Method Blank (MB)

(MB) R3126782-1 04/06/16 09:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Toluene	U		0.000780	0.00500
Xylenes, Total	U		0.00106	0.00300

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126782-2 04/06/16 11:30 • (LCSD) R3126782-3 04/06/16 12:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0255	0.0232	102	92.6	73.0-122			9.58	20
Ethylbenzene	0.0250	0.0260	0.0239	104	95.6	80.9-121			8.51	20
Methyl tert-butyl ether	0.0250	0.0309	0.0268	124	107	70.1-125			14.2	20
Toluene	0.0250	0.0258	0.0234	103	93.6	77.9-116			9.79	20
Xylenes, Total	0.0750	0.0778	0.0716	104	95.5	79.2-122			8.35	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

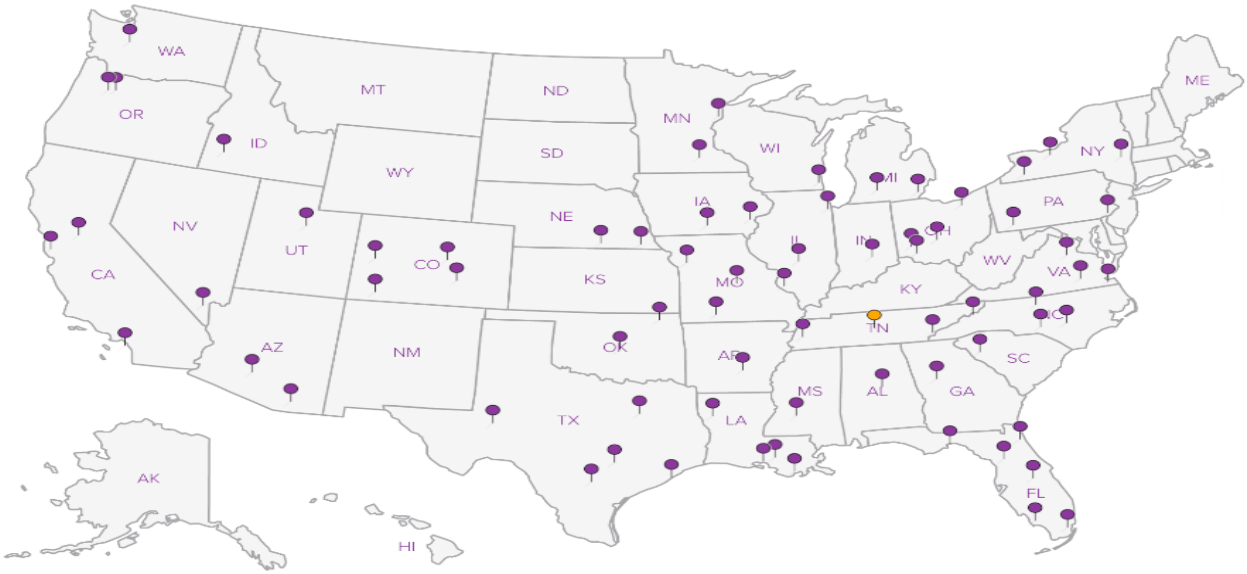
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
Broadbent & Associates
~~4820 Business Center Drive, #110~~
~~Fairfield, CA 94534~~
665 Cotting Lane St. C
Vacaville, CA 95687

Billing Information:
ARCADIS
630 Plaza Drive
Suite 100
Highlands Ranch, CO 80129

Report to:
Tom Potter (tpotter@broadbentinc.com)

Email To:
Megan.Smoley@arcadis-us.com

Project Description: **3201 35th Ave**

City/State Collected: **Oakland, CA**

Phone: **707-455-7290**
Fax: **707-863-9046**

Client Project #: **GP09BPNA.C112**

Lab Project #

Collected by (print): **Fernando Idiarte** / James Jacobsen

Site/Facility ID #: **ARCADIS 11132**

P.O. #: **GP09BPNA.C112**

Collected by (signature): Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORIES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L826190
1210

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	GRO (C6-C12) by 8015M	BTEX/5 FO + EDB, 1,2-DCA, Ethanol by 8260								Rem./Contaminant	Sample # (lab only)
MW-1	Grab	GW	29.6	3/28/16	1140	6	X	X									-01
MW-2	Grab	GW	28.3	3/28/16	1130	6	X	X									-02
MW-4	Grab	GW	33.1	3/28/16	1150	6	X	X									-03
~~MW-5~~	~~Grab~~	~~GW~~	~~27.0~~	~~3/28/16~~		~~6~~	~~X~~	~~X~~									
MW-7	Grab	GW	29.3	3/28/16	1110	6	X	X									-04
MW-8	Grab	GW	29.4	3/28/16	1045	6	X	X									-05
MW-9	Grab	GW	23.1	3/28/16	1035	6	X	X									-06
RW-1	Grab	GW	20.5	3/28/16	1120	6	X	X									-07
MW-10R	Grab	GW	23.0	3/28/16	1105	6	X	X									-08
MW-11	Grab	GW	23.0	3/28/16	1055	6	X	X									-09
TB-11132-16328				3/28/16		2										on hold	10

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___

Flow ___ Other ___

Remarks: 6503 7154 9897

Hold: 3-139

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/28/16	1545	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ho Tims

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___

Temp: 2.6 °C Bottles Received: 56

Date: 3-29-16 Time: 0900

Condition: NBIO (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

ARCADIS

Attachment D

Historical Tables Provided by Broadbent

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-1														
7/9/1990	--	169.75	--	0.22	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	0.58	--	--	--	--	--	--	--	--	--	
3/7/1991	--		20.59	0.00	149.16	--	--	--	--	--	--	--	--	
4/1/1991	--		16.51	0.15	153.09	--	--	--	--	--	--	--	--	
6/27/1991	--		--	0.18	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	0.27	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	0.28	--	--	--	--	--	--	--	--	--	
7/3/1992	--		22.30	0.27	147.18	--	--	--	--	--	--	--	--	
10/5/1992	--		23.98	0.24	145.53	--	--	--	--	--	--	--	--	
1/13/1993	--		17.03	0.24	152.48	--	--	--	--	--	--	--	--	
4/23/1993	--		18.10	0.42	151.23	--	--	--	--	--	--	--	--	
7/12/1993	--		22.02	0.49	147.24	--	--	--	--	--	--	--	--	
10/21/1993	--		25.12	1.09	143.54	--	--	--	--	--	--	--	--	
1/21/1994	--		23.02	0.76	145.97	--	--	--	--	--	--	--	--	
4/20/1994	--		24.54	1.80	143.41	--	--	--	--	--	--	--	--	
8/1/1994	--		24.11	0.35	145.29	--	--	--	--	--	--	--	--	
12/23/1994	--		18.19	0.00	151.56	--	--	--	--	--	--	--	--	
1/26/1995	--		16.25	1.10	152.40	--	--	--	--	--	--	--	--	
2/16/1995	--		--	1.40	--	--	--	--	--	--	--	--	--	
6/8/1995	--		22.92	1.25	145.63	--	--	--	--	--	--	--	--	
6/8/1995	--		22.92	1.25	145.63	--	--	--	--	--	--	--	--	
8/22/1995	--		24.45	0.85	144.45	--	--	--	--	--	--	--	--	
10/27/1995	--		25.41	0.00	143.65	--	--	--	--	--	--	--	--	
10/30/95-12/23/95	--		--	--	--	--	--	--	--	--	--	--	--	
12/23/1995	--		--	0.69	--	--	--	--	--	--	--	--	--	
1/25/1996	--		18.20	1.40	150.15	--	--	--	--	--	--	--	--	
1/25/1996	--		18.20	1.40	150.15	--	--	--	--	--	--	--	--	
4/19/1996	--		19.06	1.22	149.47	--	--	--	--	--	--	--	--	
7/23/1996	--		22.98	0.89	145.88	--	--	--	--	--	--	--	--	
11/11/1996	--		23.99	0.89	144.78	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-1 Cont.														
1/21/1997	--	169.75	16.80	0.90	152.05	--	--	--	--	--	--	--	--	
4/29/1997	--		21.90	0.85	147.00	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	92,000	3,500	8,100	4,400	23,800	6,900	--	--	c
4/30/1997	--		--	--	--	100,000	3,600	8,000	4,000	21,300	7,700	5.2	--	
8/21/1997	--		23.40	0.00	146.35	120,000	3,200	8,100	3,800	19,600	5,200	--	--	c
8/21/1997	--		23.40	0.00	146.35	140,000	3,000	8,500	3,900	22,100	5,700	5.3	--	
11/2/97-12/9/97	--		--	0.87	--	--	--	--	--	--	--	--	--	
11/5/1997	--		23.70	0.00	145.51	68,000	6,200	4,400	3,300	14,300	8,000	4.7	--	
11/5/1997	--		23.70	0.00	145.51	88,000	7,300	4,800	3,600	16,900	8,200	--	--	c
2/3/1998	--		13.63	0.32	155.80	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	190,000	2,200	10,000	5,600	32,000	<10000	5.3	--	
2/4/1998	--		--	--	--	160,000	2,300	8,400	5,000	29,400	<10000	--	--	c
5/28/1998	--		18.03	0.17	151.55	87,000	980	3,900	3,600	19,000	2,900	3.8	--	
12/30/1998	--		19.50	0.08	150.17	70,000	530	3,200	2,900	16,000	3,600	--	--	
2/2/1999	--		18.93	0.03	150.79	79,000	480	3,100	3,500	21,000	3,500	--	--	
5/10/1999	--		18.28	0.03	151.44	110,000	160	1,900	3,700	24,000	3,000	--	--	
8/24/1999	--		20.13	0.06	149.56	110,000	850	1,300	1,900	19,000	<50	--	--	
11/3/1999	--		22.27	0.36	147.12	65,000	6,300	1,100	3,300	9,500	8,900	--	--	
3/1/2000	--		14.79	0.23	154.73	--	--	--	--	--	--	--	--	h
4/21/2000	--		18.10	0.33	151.32	61,000	330	780	2,700	17,000	1,300	--	--	
7/31/2000	--		21.60	0.53	147.62	1,500,000	340	2,100	24,000	120,000	2,700	--	--	
11/20/2000	--		21.69	0.37	147.69	1,700,000	1,800	2,300	19,000	93,000	3,900	--	--	
2/18/2001	--		16.70	0.13	152.92	--	--	--	--	--	--	--	--	
2/26/2001	--		14.38	0.15	155.22	100,000	658	466	4,210	15,000	1,890	--	--	
6/7/2001	--		20.78	0.00	148.97	70,000	705	440	3,870	12,200	2,720	--	--	
9/5/2001	--		23.36	0.35	146.04	--	--	--	--	--	--	--	--	j
11/30/2001	--		20.85	0.41	148.49	--	--	--	--	--	--	--	--	k
12/6/2001	--		18.72	0.27	150.76	39,000	3,500	237	2,150	4,500	5,400	--	--	
2/20/2002	--		17.43	0.15	152.17	52,000	465	271	1,600	11,400	106	--	--	
6/20/2002	--		21.18	0.34	148.23	--	--	--	--	--	--	--	--	j

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-1 Cont.														
9/11/2002	--	169.75	22.86	0.40	146.49	--	--	--	--	--	--	--	--	j
11/12/2002	--		22.65	0.37	146.73	--	--	--	--	--	--	--	--	j
1/29/2003	--		18.15	0.30	151.30	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		18.49	0.20	151.06	--	--	--	--	--	--	--	--	j
6/24/2003	--		21.44	0.35	147.96	--	--	--	--	--	--	--	--	o
7/28/2003	--		22.72	0.35	146.68	--	--	--	--	--	--	--	--	j
8/12/2003	--		22.64	0.23	146.88	--	--	--	--	--	--	--	--	o
9/12/2003	--		20.70	0.24	148.81	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	0.23	--	--	--	--	--	--	--	--	--	
11/18/2003	NP		21.70	0.25	148.25	--	--	--	--	--	--	--	--	
12/31/2003	--		--	0.15	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	0.15	--	--	--	--	--	--	--	--	--	
02/23/2004	NP		16.34	0.09	153.48	--	--	--	--	--	--	--	--	
3/18/2004	--		--	0.09	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	0.24	--	--	--	--	--	--	--	--	--	
05/04/2004	NP		21.28	0.16	148.60	--	--	--	--	--	--	--	--	
6/2/2004	--		--	0.08	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	0.28	--	--	--	--	--	--	--	--	--	
08/04/2004	--		22.54	0.10	147.29	--	--	--	--	--	--	--	--	
09/22/2004	NP		22.76	0.20	147.15	--	--	--	--	--	--	--	--	
10/26/2004	--		--	0.12	--	--	--	--	--	--	--	--	--	
11/10/2004	--		20.19	0.14	149.67	--	--	--	--	--	--	--	--	
12/27/2004	--		--	0.08	--	--	--	--	--	--	--	--	--	
01/13/2005	--		14.58	0.03	155.19	--	--	--	--	--	--	--	--	
02/15/2005	--		16.13	0.04	153.65	--	--	--	--	--	--	--	--	
03/07/2005	--		13.31	0.01	156.45	--	--	--	--	--	--	--	--	
4/29/2005	--		--	0.01	--	--	--	--	--	--	--	--	--	
05/16/2005	--		15.74	0.02	154.03	--	--	--	--	--	--	--	--	j
6/21/2005	--		--	0.01	--	--	--	--	--	--	--	--	--	
7/7/2005	--		--	0.18	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-1 Cont.														
08/17/2005	--	169.75	21.15	0.08	148.66	--	--	--	--	--	--	--	--	j
9/6/2005	--		--	0.02	--	--	--	--	--	--	--	--	--	
10/4/2005	--		--	0.12	--	--	--	--	--	--	--	--	--	
11/18/2005	--		20.15	0.00	149.60	--	--	--	--	--	--	--	--	j
12/30/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
1/24/2006	--		--	--	--	--	--	--	--	--	--	--	--	
02/07/2006	--		15.19	0.01	154.57	--	--	--	--	--	--	--	--	j
3/30/2006	--		--	--	--	--	--	--	--	--	--	--	--	
5/19/2006	P		17.42	0.00	152.33	44,000	73	510	3,300	5,300	86	--	6.9	u, t
8/23/2006	--		22.01	0.14	147.74	--	--	--	--	--	--	--	--	b, j
11/15/2006	--		21.98	0.18	147.91	--	--	--	--	--	--	--	--	b, j
2/14/2007	--		17.12	0.17	152.76	--	--	--	--	--	--	--	--	b, j
5/22/2007	--		19.49	0.01	150.26	--	--	--	--	--	--	--	--	b, j
8/15/2007	--		22.24	0.01	147.52	--	--	--	--	--	--	--	--	b, j
11/8/2007	--		21.84	0.01	147.92	--	--	--	--	--	--	--	--	b, j
2/20/2008	--		16.52	0.02	153.25	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		20.91	0.02	148.86	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		22.77	0.02	147.00	--	--	--	--	--	--	--	--	b
11/17/2008	P		22.05	0.00	147.70	27,000	780	30	1,800	1,400	590	--	6.60	w
2/25/2009	--		15.28	0.02	154.49	--	--	--	--	--	--	--	--	b
4/8/2009	--		18.18	0.00	151.57	--	--	--	--	--	--	--	--	
5/28/2009	--		19.62	0.01	150.14	--	--	--	--	--	--	--	--	b
6/16/2009	--		20.94	0.01	148.82	--	--	--	--	--	--	--	--	
8/6/2009	--		22.31	0.01	147.45	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		14.27	Sheen	155.48	14,000	45	<10	610	390	<10	0.54	6.96	
9/2/2010	NP		22.32	0.00	147.43	8,200	10	<5.0	230	140	<5.0	0.52	7.01	
3/15/2011	P		14.99	Sheen	154.76	4,500	<5.0	<5.0	56	30	16	0.85	7.0	t
8/17/2011	P		20.41	0.00	149.34	1,200	<1.0	<1.0	24	15	8.3	0.71	7.39	
2/6/2012	**P**		**18.69**	**0.00**	**151.06**	**710**	**<1.0**	**<1.0**	**2.9**	**2.2**	**10**	**0.78**	**7.34**	
MW-2														

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-2 Cont.														
7/9/1990	--	168.14	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--		19.18	0.00	148.96	--	--	--	--	--	--	--	--	
4/1/1991	--		15.21	0.00	152.93	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		20.93	0.00	147.21	--	--	--	--	--	--	--	--	
10/5/1992	--		22.74	0.00	145.40	--	--	--	--	--	--	--	--	
1/13/1993	--		15.55	0.00	152.59	--	--	--	--	--	--	--	--	
4/23/1993	--		16.54	0.00	151.60	--	--	--	--	--	--	--	--	
7/12/1993	--		20.46	0.00	147.68	--	--	--	--	--	--	--	--	
10/21/1993	--		24.91	0.00	143.23	--	--	--	--	--	--	--	--	
1/21/1994	--		21.20	0.00	146.94	--	--	--	--	--	--	--	--	
4/20/1994	--		22.44	0.00	145.70	1,800	140	370	54	290	24	1.7	--	i
8/1/1994	--		22.24	0.00	145.90	--	--	--	--	--	--	--	--	
12/23/1994	--		16.25	0.00	151.89	--	--	--	--	--	--	--	--	
1/26/1995	--		14.55	0.00	153.59	--	--	--	--	--	--	--	--	
6/8/1995	--		21.18	0.00	146.96	--	--	--	--	--	--	--	--	
8/22/1995	--		22.76	0.00	145.38	--	--	--	--	--	--	--	--	
10/27/1995	--		23.61	0.00	144.53	--	--	--	--	--	--	--	--	
1/25/1996	--		15.95	0.00	152.19	--	--	--	--	--	--	--	--	
4/19/1996	--		17.33	0.00	150.81	--	--	--	--	--	--	--	--	
7/23/1996	--		21.25	0.00	146.89	--	--	--	--	--	--	--	--	
11/11/1996	--		22.27	0.00	145.87	--	--	--	--	--	--	--	--	
1/21/1997	--		15.19	0.00	152.95	--	--	--	--	--	--	--	--	
4/29/1997	--		20.22	0.00	147.92	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	130,000	4,600	15,000	6,000	37,000	<5000	5	--	
8/21/1997	--		21.74	0.00	146.40	110,000	6,000	16,000	4,700	28,000	<500	4.6	--	
11/5/1997	--		21.61	0.00	146.53	120,000	7,800	18,000	4,900	28,100	<2500	4.6	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-2 Cont.														
2/3/1998	--	168.14	11.51	0.00	156.63	75,000	590	1,500	1,800	12,800	<2500	4.5	--	
5/28/1998	--		16.51	0.00	151.63	79,000	3,900	3,100	3,100	18,000	900	4.3	--	
12/30/1998	--		17.70	0.00	150.44	95,000	4,700	3,500	3,700	21,000	<250	--	--	
2/2/1999	--		15.46	0.00	152.68	170,000	3,500	1,500	5,200	34,000	<500	--	--	
5/10/1999	--		16.52	0.00	151.62	84,000	3,200	3,200	3,700	20,000	75	--	--	
8/24/1999	--		20.73	0.00	147.41	130,000	9,100	9,200	4,700	27,000	<250	--	--	
11/3/1999	--		20.93	0.00	147.21	120,000	10,000	21,000	4,700	30,200	2,200	--	--	
3/1/2000	--		13.37	0.00	154.77	39,000	1,400	1,500	1,700	8,100	44	--	--	
4/21/2000	--		16.59	0.00	151.55	68,000	3,300	2,500	3,100	20,000	260	--	--	
7/31/2000	--		16.37	0.00	151.77	99,000	5,600	1,400	4,300	22,000	490	--	--	
11/20/2000	--		19.71	0.00	148.43	37,000	5,100	1,500	1,300	4,800	2,800	--	--	
2/18/2001	--		15.29	0.00	152.85	54,000	5,020	3,880	2,850	15,400	1,010	--	--	
6/7/2001	--		19.43	0.00	148.71	110,000	7,240	4,380	4,160	22,100	567	--	--	
9/5/2001	--		22.44	0.00	145.70	69,000	5,750	5,790	2,770	14,200	1,510	--	--	
11/30/2001	--		19.58	0.00	148.56	120,000	7,270	6,540	4,590	23,000	794	--	--	
2/20/2002	--		16.39	0.00	151.75	56,000	2,410	2,270	2,910	14,300	160	--	--	
6/20/2002	--		19.77	0.00	148.37	86,000	7,310	6,490	3,080	14,600	659	--	--	
9/11/2002	--		21.60	0.00	146.54	130,000	7,600	13,000	5,400	30,000	<5000	--	--	
11/12/2002	--		21.34	0.00	146.80	46,000	4,100	4,300	1,900	10,000	1,900	--	--	t
1/29/2003	--		16.80	0.00	151.34	77,000	4,700	2,600	2,800	13,000	820	--	--	n,t
5/22/2003	--		17.15	0.00	150.99	52,000	6,400	2,600	1,800	7,400	1,000	--	--	t
7/28/2003	--		21.47	0.00	146.67	31,000	6,900	5,500	2,200	12,000	1,700	--	--	p
11/18/2003	P		20.50	0.00	147.64	23,000	3,300	800	500	2,000	500	--	6.6	
02/23/2004	P		14.77	0.00	153.37	84,000	14,000	6,200	3,100	14,000	790	--	6.6	t
05/04/2004	P		20.09	0.00	148.05	120,000	15,000	17,000	4,900	24,000	780	--	6.6	t
08/04/2004	P		21.39	0.00	146.75	38,000	9,100	3,300	1,900	5,800	430	--	6.69	t
11/10/2004	P		18.98	0.00	149.16	22,000	4,400	2,000	940	3,600	310	--	7.5	
02/15/2005	P		15.62	0.00	152.52	67,000	11,000	4,200	3,000	11,000	690	--	7.1	t
05/16/2005	P		14.71	0.00	153.43	94,000	11,000	7,600	4,100	17,000	560	--	6.5	
08/17/2005	P		20.00	0.00	148.14	110,000	13,000	8,000	4,300	18,000	480	--	6.6	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-2 Cont.														
11/18/2005	P	168.14	20.89	0.00	147.25	37,000	11,000	2,400	1,500	4,600	340	--	6.6	
02/07/2006	P		13.31	0.00	154.83	74,000	8,900	5,800	3,600	14,000	440	--	6.7	
5/19/2006	P		16.30	0.00	151.84	78,000	11,000	3,700	4,500	14,000	430	--	6.6	t
8/23/2006	P		20.83	0.00	147.31	100,000	12,000	9,100	5,800	25,000	480	--	6.6	
11/15/2006	--		20.80	0.00	147.34	46,000	8,800	3,600	2,300	8,500	400	0.70	6.73	
2/14/2007	P		15.96	Sheen	152.18	100,000	13,000	3,600	6,200	26,000	810	1.43	6.97	t
5/22/2007	P		18.20	0.00	149.94	91,000	15,000	8,700	4,700	20,000	1,000	0.08	6.90	
8/15/2007	P		21.23	Sheen	146.91	14,000	7,300	130	280	600	260	4.24	6.78	
11/8/2007	P		20.32	0.00	147.82	22,000	7,400	420	640	1,700	240	1.21	7.03	
2/20/2008	--		15.20	0.06	152.99	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		19.80	0.04	148.37	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		21.70	0.01	146.45	--	--	--	--	--	--	--	--	b
11/17/2008	P		20.73	0.00	147.41	45,000	8,400	700	1,500	5,600	320	--	6.46	t, w
2/25/2009	P		14.15	0.00	153.99	18,000	5,200	<250	380	1,400	<250	2.11	6.50	
4/8/2009	--		17.00	0.00	151.14	--	--	--	--	--	--	--	--	
5/28/2009	P		18.43	Sheen	149.71	37,000	5,300	1,600	1,400	5,600	510	0.16	6.59	t, x
6/16/2009	--		19.80	0.01	148.35	--	--	--	--	--	--	--	--	
8/6/2009	--		21.17	0.01	146.98	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		13.03	Sheen	155.11	18,000	9,500	270	510	1,400	350	1.28	6.80	
9/2/2010	NP		20.62	0.00	147.52	58,000	11,000	3,600	3,900	16,000	470	0.70	6.90	y
3/15/2011	P		13.70	Sheen	154.44	63,000	12,000	2,900	4,100	15,000	500	0.69	6.8	
8/17/2011	P		19.31	0.00	148.83	23,000	4,900	620	1,500	4,400	150	0.50	7.07	
2/6/2012	**P**		**17.49**	**0.00**	**150.65**	**26,000**	**6,400**	**200**	**1,700**	**3,400**	**360**	**0.91**	**7.08**	
MW-3														
7/9/1990	--	167.17	--	--	--	140	5.3	4.6	2	3.8	--	--	--	
12/21/1990	--		--	--	--	0.19	100	6	0.9	27	--	--	--	
3/7/1991	--		17.40	0.00	149.77	0.4	69	22	6.1	57	--	--	--	
4/1/1991	--		13.69	0.00	153.48	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	380	28	26	13	46	--	--	--	
9/27/1991	--		--	--	--	0.07	7.9	--	0.4	1.1	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-3 Cont.														
12/18/1991	--	167.17	--	--	--	0.26	34	24	0.8	28	--	--	--	
7/3/1992	--		19.59	0.00	147.58	71	9.4	0.9	5	13	--	--	--	
10/5/1992	--		21.22	0.00	145.95	<50	2.2	<0.5	1.5	2.8	--	--	--	c
10/5/1992	--		21.22	0.00	145.95	67	5.1	1.1	6.1	8.1	--	--	--	
1/13/1993	--		13.63	0.00	153.54	830	50	34	42	89	--	--	--	i
4/23/1993	--		15.02	0.00	152.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c,i
4/23/1993	--		15.02	0.00	152.15	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		19.16	0.00	148.01	250	12	4.2	12	16	<5.0	--	--	i
10/21/1993	--		21.81	0.00	145.36	65	7.4	1	6.9	4.2	--	--	--	c
10/21/1993	--		21.81	0.00	145.36	52	4.4	1.4	4.7	3.3	<5.0	--	--	i
1/21/1994	--		19.94	0.00	147.23	57	3	3.4	3.6	9	<5.0	--	--	i
4/20/1994	--		20.24	0.00	146.93	600	26	23	33	88	28.7	1.8	--	i
8/1/1994	--		20.74	0.00	146.43	120	7.7	1.6	5.9	6.7	5.43	--	--	c,i
8/1/1994	--		20.74	0.00	146.43	99	6.2	1.1	4.5	5.2	<5.0	1.4	--	i
12/23/1994	--		14.70	0.00	152.47	<50	<0.5	0.78	<0.5	<0.5	9.8	1.7	--	i
12/23/1994	--		14.70	0.00	152.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c
1/26/1995	--		12.89	0.00	154.28	190	16	0.5	35	24	--	6.6	--	d
6/8/1995	--		19.95	0.00	147.22	330	21	4	34	32	--	7	--	
8/22/1995	--		21.41	0.00	145.76	150	14	<0.50	<0.50	1.6	<5.0	6.6	--	d
10/27/1995	--		22.43	0.00	144.74	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	51	2.4	<0.50	<0.50	<1.0	<5.0	6.9	--	
1/25/1996	--		14.03	0.00	153.14	<50	<0.50	<0.50	<0.50	<1.0	5.1	--	--	
4/19/1996	--		15.26	0.00	151.91	460	55	4	33	63	<10	9.4	--	
7/23/1996	--		19.19	0.00	147.98	<50	<0.5	<0.5	<0.5	<0.5	<10	9.2	--	
11/11/1996	--		20.24	0.00	146.93	<250	<2.5	<5.0	<5.0	<5.0	<50	8.4	--	
1/21/1997	--		13.09	0.00	154.08	<50	<0.5	<1.0	<1.0	<1.0	<10	5.4	--	
4/29/1997	--		18.14	0.00	149.03	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	
8/21/1997	--		19.64	0.00	147.53	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	
11/5/1997	--		19.95	0.00	147.22	<250	<2.5	<5.0	<5.0	<5.0	<50	4.5	--	
2/3/1998	--		10.57	0.00	156.60	<50	<0.50	<1.0	<1.0	<1.0	<10	4.7	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-3 Cont.														
5/28/1998	--	167.17	14.65	0.00	152.52	330	<2.5	<5.0	<5.0	<5.0	<50	4.2	--	
12/30/1998	--		16.63	0.00	150.54	--	--	--	--	--	--	--	--	
2/2/1999	--		13.12	0.00	154.05	<250	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	
5/10/1999	--		14.21	0.00	152.96	--	--	--	--	--	--	--	--	
8/24/1999	--		14.36	0.00	152.81	--	--	--	--	--	--	--	--	
11/3/1999	--		19.21	0.00	147.96	--	--	--	--	--	--	--	--	
3/1/2000	--		15.17	0.00	152.00	<50	<0.5	0.57	<0.5	0.62	<0.5	--	--	
4/21/2000	--		14.88	0.00	152.29	--	--	--	--	--	--	--	--	
7/31/2000	--		15.29	0.00	151.88	--	--	--	--	--	--	--	--	
11/20/2000	--		17.31	0.00	149.86	--	--	--	--	--	--	--	--	
2/18/2001	--		12.85	0.00	154.32	160	1.95	1.31	10.2	9.09	1	--	--	
6/7/2001	--		18.00	0.00	149.17	--	--	--	--	--	--	--	--	
9/5/2001	--		20.32	0.00	146.85	--	--	--	--	--	--	--	--	
11/30/2001	--		16.94	0.00	150.23	--	--	--	--	--	--	--	--	
2/20/2002	--		14.84	0.00	152.33	86	<0.5	0.845	6.58	5.75	<0.5	--	--	
6/20/2002	--		18.40	0.00	148.77	--	--	--	--	--	--	--	--	
9/11/2002	--		20.06	0.00	147.11	--	--	--	--	--	--	--	--	
11/12/2002	--		19.84	0.00	147.33	--	--	--	--	--	--	--	--	
1/27/2003	--		14.83	0.00	152.34	850	20	9.7	24	45	0.76	--	--	n
5/22/2003	--		15.60	0.00	151.57	--	--	--	--	--	--	--	--	
7/28/2003	--		20.12	0.00	147.05	--	--	--	--	--	--	--	--	p
11/18/2003	--		19.15	0.00	148.02	--	--	--	--	--	--	--	--	
02/23/2004	--		13.53	0.00	153.64	160	<0.50	1.1	9.6	12	<0.50	--	6.7	
05/04/2004	--		18.61	0.00	148.56	--	--	--	--	--	--	--	--	
08/04/2004	--		19.21	0.00	147.96	--	--	--	--	--	--	--	--	
11/10/2004	--		17.48	0.00	149.69	--	--	--	--	--	--	--	--	
02/15/2005	P		14.31	0.00	152.86	500	7.8	1.8	9.2	9.6	1.7	--	7.5	
05/16/2005	--		13.11	0.00	154.06	--	--	--	--	--	--	--	--	
08/17/2005	--		18.53	0.00	148.64	--	--	--	--	--	--	--	--	
11/18/2005	--		19.34	0.00	147.83	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-3 Cont.														
02/07/2006	P	167.17	11.64	0.00	155.53	65	<0.50	<0.50	1.4	2.3	<0.50	--	7.1	
5/19/2006	--		14.88	0.00	152.29	--	--	--	--	--	--	--	--	
8/23/2006	--		19.43	0.00	147.74	--	--	--	--	--	--	--	--	
11/15/2006	--		19.22	0.00	147.95	--	--	--	--	--	--	--	--	
2/14/2007	P		13.80	0.00	153.37	200	1.1	<0.50	5.9	3.2	3.8	0.68	7.52	
5/22/2007	--		16.80	0.00	150.37	--	--	--	--	--	--	--	--	
8/15/2007	--		19.87	0.00	147.30	--	--	--	--	--	--	--	--	
11/8/2007	--		19.27	0.00	147.90	--	--	--	--	--	--	--	--	
2/20/2008	P		13.58	0.00	153.59	240	1.1	<0.50	0.99	0.79	2.3	2.58	7.06	
5/7/2008	--		18.32	0.00	148.85	--	--	--	--	--	--	--	--	
8/20/2008	--		20.29	0.00	146.88	--	--	--	--	--	--	--	--	
11/17/2008	--		19.35	0.00	147.82	--	--	--	--	--	--	--	--	
2/25/2009	P		11.77	0.00	155.40	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.45	7.09	
5/28/2009	--		17.02	0.00	150.15	--	--	--	--	--	--	--	--	
8/6/2009	--		19.87	0.00	147.30	--	--	--	--	--	--	--	--	
3/4/2010	P		10.79	0.00	156.38	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.16	7.06	
9/2/2010	--		19.32	0.00	147.85	--	--	--	--	--	--	--	--	
3/15/2011	P		11.77	0.00	155.40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.14	7.2	
8/17/2011	--		17.98	0.00	149.19	--	--	--	--	--	--	--	--	
2/6/2012	**--**		**15.92**	**0.00**	**151.25**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-4														
7/9/1990	--	170.36	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	0.8	--	--	--	
3/7/1991	--		20.72	0.00	149.64	--	2.2	3.8	1.5	2.8	--	--	--	
4/1/1991	--		17.49	0.00	152.87	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	6.3	1.8	0.4	1	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		22.16	0.00	148.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		23.38	0.00	146.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-4 Cont.														
1/13/1993	--	170.36	17.58	0.00	152.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		15.72	0.00	154.64	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		21.74	0.00	148.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
10/21/1993	--		23.84	0.00	146.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
1/21/1994	--		22.42	0.00	147.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
4/20/1994	--		22.66	0.00	147.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.2	--	i
8/1/1994	--		23.01	0.00	147.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.9	--	i
12/23/1994	--		17.03	0.00	153.33	--	--	--	--	--	--	--	--	
1/26/1995	--		17.42	0.00	152.94	<50	<0.5	<0.5	<0.5	<1	--	7.5	--	
6/8/1995	--		21.55	0.00	148.81	--	--	--	--	--	--	--	--	
8/22/1995	--		23.47	0.00	146.89	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	d
10/27/1995	--		24.50	0.00	145.86	--	--	--	--	--	--	--	--	
1/25/1996	--		18.74	0.00	151.62	<50	<0.50	<0.50	<0.50	<1.0	58	--	--	
4/19/1996	--		18.63	0.00	151.73	--	--	--	--	--	--	--	--	
7/23/1996	--		22.56	0.00	147.80	--	--	--	--	--	--	--	--	
11/11/1996	--		23.63	0.00	146.73	<50	<1.0	<1.0	<1.0	<1.0	34	8.2	--	
1/21/1997	--		16.59	0.00	153.77	--	--	--	--	--	--	--	--	
4/29/1997	--		21.43	0.00	148.93	<50	<0.5	<1.0	<1.0	<1.0	<10	4.7	--	
8/21/1997	--		22.91	0.00	147.45	--	--	--	--	--	--	--	--	
11/5/1997	--		22.34	0.00	148.02	60	<0.5	<1.0	<1.0	<1.0	76	4.9	--	
2/3/1998	--		12.26	0.00	158.10	--	--	--	--	--	--	--	--	
5/28/1998	--		18.50	0.00	151.86	70	<0.5	<1.0	<1.0	<1.0	160	4.2	--	
12/30/1998	--		19.69	0.00	150.67	--	--	--	--	--	--	--	--	
2/2/1999	--		18.26	0.00	152.10	70	<1.0	<1.0	<1.0	<1.0	130	--	--	
5/10/1999	--		17.86	0.00	152.50	--	--	--	--	--	--	--	--	
8/24/1999	--		17.93	0.00	152.43	--	--	--	--	--	--	--	--	
11/3/1999	--		22.78	0.00	147.58	--	--	--	--	--	--	--	--	
3/1/2000	--		18.04	0.00	152.32	<50	<0.5	0.67	<0.5	0.7	110	--	--	
4/21/2000	--		17.36	0.00	153.00	--	--	--	--	--	--	--	--	
7/31/2000	--		17.83	0.00	152.53	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-4 Cont.														
11/20/2000	--	170.36	18.91	0.00	151.45	--	--	--	--	--	--	--	--	
2/18/2001	--		17.72	0.00	152.64	88	<0.5	<0.5	<0.5	<0.5	97.3	--	--	
6/7/2001	--		20.23	0.00	150.13	--	--	--	--	--	--	--	--	
9/5/2001	--		22.76	0.00	147.60	--	--	--	--	--	--	--	--	
11/30/2001	--		21.30	0.00	149.06	--	--	--	--	--	--	--	--	
2/20/2002	--		19.32	0.00	151.04	76	<0.5	<0.5	<0.5	<1.0	81	--	--	
6/20/2002	--		20.71	0.00	149.65	--	--	--	--	--	--	--	--	
9/11/2002	--		22.22	0.00	148.14	--	--	--	--	--	--	--	--	
11/12/2002	--		22.22	0.00	148.14	--	--	--	--	--	--	--	--	
1/29/2003	--		19.80	0.00	150.56	100	<0.5	<0.5	<0.5	<0.5	66	--	--	n
5/22/2003	--		19.35	0.00	151.01	--	--	--	--	--	--	--	--	
7/28/2003	--		22.18	0.00	148.18	--	--	--	--	--	--	--	--	p
11/18/2003	--		21.65	0.00	148.71	--	--	--	--	--	--	--	--	
02/23/2004	P		17.53	0.00	152.83	75	<0.50	<0.50	<0.50	<0.50	65	--	6.8	
05/04/2004	--		20.62	0.00	149.74	--	--	--	--	--	--	--	--	
08/04/2004	--		21.30	0.00	149.06	--	--	--	--	--	--	--	--	
11/10/2004	--		20.65	0.00	149.71	--	--	--	--	--	--	--	--	
02/15/2005	P		18.91	0.00	151.45	<50	<0.50	<0.50	<0.50	<0.50	62	--	7.6	
05/16/2005	--		17.34	0.00	153.02	--	--	--	--	--	--	--	--	
08/17/2005	--		21.31	0.00	149.05	--	--	--	--	--	--	--	--	
11/18/2005	--		21.67	0.00	148.69	--	--	--	--	--	--	--	--	
02/07/2006	P		16.74	0.00	153.62	100	<0.50	<0.50	1.0	3.0	29	--	6.8	
5/19/2006	--		18.22	0.00	152.14	--	--	--	--	--	--	--	--	
8/23/2006	--		20.95	0.00	149.41	--	--	--	--	--	--	--	--	
11/15/2006	--		22.21	0.00	148.15	--	--	--	--	--	--	--	--	
2/14/2007	P		18.25	0.00	152.11	<50	<0.50	<0.50	<0.50	<0.50	61	0.95	7.34	
5/22/2007	--		20.16	0.00	150.20	--	--	--	--	--	--	--	--	
8/15/2007	--		22.34	0.00	148.02	--	--	--	--	--	--	--	--	
11/8/2007	--		21.86	0.00	148.50	--	--	--	--	--	--	--	--	
2/20/2008	P		17.74	0.00	152.62	<50	<0.50	<0.50	<0.50	<0.50	36	2.13	6.93	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-4 Cont.														
5/7/2008	--	170.36	21.38	0.00	148.98	--	--	--	--	--	--	--	--	
8/20/2008	--		22.44	0.00	147.92	--	--	--	--	--	--	--	--	
11/17/2008	--		22.20	0.00	148.16	--	--	--	--	--	--	--	--	
2/25/2009	P		16.81	0.00	153.55	<50	<0.50	<0.50	<0.50	<0.50	26	2.80	6.83	
5/28/2009	--		20.37	0.00	149.99	--	--	--	--	--	--	--	--	
8/6/2009	--		22.46	0.00	147.90	--	--	--	--	--	--	--	--	
3/4/2010	P		17.11	Sheen	153.25	<50	<0.50	<0.50	<0.50	<1.0	34	0.63	6.80	
9/2/2010	--		20.63	0.00	149.73	--	--	--	--	--	--	--	--	
3/15/2011	P		16.47	0.00	153.89	<50	<0.50	<0.50	<0.50	<1.0	26	1.05	6.9	
8/17/2011	--		20.94	0.00	149.42	--	--	--	--	--	--	--	--	
2/6/2012	**P**		**19.65**	**0.00**	**150.71**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**32**	**1.06**	**7.28**	
MW-5														
7/9/1990	--	165.14	--	--	--	280	200	210	46	290	--	--	--	
12/21/1990	--		--	--	--	0.69	300	34	8.4	39	--	--	--	
3/7/1991	--		16.60	0.00	148.54	--	17	0.9	0.7	1.6	--	--	--	
4/1/1991	--		11.99	0.00	153.15	800	250	54	11	60	--	--	--	
6/27/1991	--		--	--	--	330	120	10	12	8	--	--	--	
9/27/1991	--		--	--	--	0.73	230	16	20	22	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	
7/3/1992	--		18.65	0.00	146.49	150	36	<0.5	<0.5	1.1	--	--	--	
10/5/1992	--		20.32	0.00	144.82	270	79	4	1.7	2.9	--	--	--	
1/13/1993	--		13.03	0.00	152.11	180	59	6	1.8	7.6	--	--	--	i
4/23/1993	--		13.51	0.00	151.63	8,700	440	96	35	136	--	--	--	i
7/12/1993	--		18.06	0.00	147.08	250	57	2.9	2.1	6	<5.0	--	--	i
10/21/1993	--		20.41	0.00	144.73	210	82	1.5	<0.5	1.4	--	--	--	i
1/21/1994	--		18.86	0.00	146.28	110	36	1.2	<0.5	0.7	<5.0	--	--	i
4/20/1994	--		17.30	0.00	147.84	690	230	4.5	1.6	11	21.2	1.3	--	i
8/1/1994	--		17.53	0.00	147.61	170	44	1.6	0.9	2.7	<5.0	0.9	--	i
12/23/1994	--		11.63	0.00	153.51	630	180	1.9	0.66	1.9	7.81	1.4	--	i
1/26/1995	--		11.25	0.00	153.89	160	68	<0.5	<0.5	22	--	5.9	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE			
MW-5 Cont.														
6/8/1995	--	165.14	16.80	0.00	148.34	1,700	560	51	55	170	--	--	--	c
6/8/1995	--		16.80	0.00	148.34	2,000	630	58	61	180	--	6.5	--	
8/22/1995	--		19.02	0.00	146.12	3,700	1,100	18	27	59	<130	7.3	--	d
10/27/1995	--		20.94	0.00	144.20	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	6,500	2,200	55	180	270	<250	7.5	--	
1/25/1996	--		13.30	0.00	151.84	540	37	0.66	<0.50	<1.0	<5.0	--	--	c
1/25/1996	--		13.30	0.00	151.84	590	37	0.7	<0.50	<1.0	<5.0	--	--	
4/19/1996	--		13.63	0.00	151.51	1,500	470	38	49	210	<50	8.1	--	
7/23/1996	--		17.61	0.00	147.53	140	4.6	<0.5	<0.5	<0.5	<10	8	--	
11/11/1996	--		18.70	0.00	146.44	140	40	<1.0	<1.0	<1.0	<10	7.9	--	
1/21/1997	--		11.63	0.00	153.51	730	300	<5.0	7.8	26	<50	5	--	
4/29/1997	--		16.74	0.00	148.40	340	530	<5.0	<5.0	<5.0	<50	4.8	--	
8/21/1997	--		18.26	0.00	146.88	<50	<0.5	<1.0	<1.0	<1.0	<10	4.9	--	
11/5/1997	--		18.84	0.00	146.30	120	13	<1.0	<1.0	<1.0	<10	4.4	--	
2/3/1998	--		9.49	0.00	155.65	<50	<0.50	<1.0	<1.0	<1.0	<10	4.3	--	
5/28/1998	--		13.57	0.00	151.57	4,900	1,500	34	180	311	<10	4.1	--	
12/30/1998	--		14.65	0.00	150.49	--	--	--	--	--	--	--	--	
2/2/1999	--		12.56	0.00	152.58	100	<1.0	<1.0	<1.0	<1.0	9.1	--	--	
5/10/1999	--		13.36	0.00	151.78	--	--	--	--	--	--	--	--	
8/24/1999	--		13.50	0.00	151.64	--	--	--	--	--	--	--	--	
11/3/1999	--		18.48	0.00	146.66	--	--	--	--	--	--	--	--	
3/1/2000	--		9.59	0.00	155.55	<50	<0.5	0.58	<0.5	0.54	2.9	--	--	
4/21/2000	--		13.52	0.00	151.62	--	--	--	--	--	--	--	--	
7/31/2000	--		14.04	0.00	151.10	--	--	--	--	--	--	--	--	
11/20/2000	--		15.89	0.00	149.25	--	--	--	--	--	--	--	--	
2/18/2001	--		11.88	0.00	153.26	560	161	2.38	6.11	13	5.67	--	--	
6/7/2001	--		15.30	0.00	149.84	--	--	--	--	--	--	--	--	
9/5/2001	--		19.32	0.00	145.82	--	--	--	--	--	--	--	--	
11/30/2001	--		17.44	0.00	147.70	--	--	--	--	--	--	--	--	
2/20/2002	--		13.88	0.00	151.26	4,200	940	18.7	98.2	176	55.6	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE			
MW-5 Cont.														
6/20/2002	--	165.14	16.20	0.00	148.94	--	--	--	--	--	--	--	--	
9/11/2002	--		19.15	0.00	145.99	--	--	--	--	--	--	--	--	
11/12/2002	--		19.01	0.00	146.13	390	55	0.89	3.4	3.5	210	--	--	
1/29/2003	--		16.33	0.00	148.81	7,900	1,400	34	220	350	82	--	--	n
5/22/2003	--		14.35	0.00	150.79	9,900	2,300	91	400	690	<50	--	--	
7/28/2003	--		18.90	0.00	146.24	3,200	690	14	81	100	120	--	--	p
11/18/2003	--		--	--	--	--	--	--	--	--	--	--	--	Well inaccessible e, q
02/23/2004	P		12.21	0.00	152.93	7,500	1,500	100	190	350	100	--	6.7	
05/04/2004	P		17.12	0.00	148.02	5,900	1,500	57	200	280	42	--	6.6	
08/04/2004	P		19.05	0.00	146.09	<2,500	<25	<25	<25	<25	390	--	6.69	
11/10/2004	P		16.95	0.00	148.19	870	80	<5.0	<5.0	<5.0	530	--	7.5	
02/15/2005	P		12.75	0.00	152.39	1,600	330	8.0	37	67	260	--	7.2	
05/16/2005	P		15.46	0.00	149.68	<500	<5.0	<5.0	<5.0	<5.0	370	--	6.7	
08/17/2005	P		17.00	0.00	148.14	7,000	1,000	17	110	130	51	--	6.6	
11/18/2005	P		18.33	0.00	146.81	1,900	91	<5.0	33	29	340	--	7.3	
02/07/2006	P		10.27	0.00	154.87	2,100	590	9.6	86	110	200	--	6.7	
5/19/2006	P		13.08	0.00	152.06	3,200	720	9.7	150	170	44	--	6.8	
8/23/2006	P		17.02	0.00	148.12	1,400	69	<5.0	20	24	230	--	7.11	
11/15/2006	P		18.30	0.00	146.84	1,100	24	<2.5	10	8.6	490	0.85	6.82	
2/14/2007	P		13.16	0.00	151.98	680	110	<2.5	16	11	420	2.54	7.24	
5/22/2007	P		15.42	0.00	149.72	2,800	660	8.8	74	100	26	1.41	7.03	
8/15/2007	P		18.80	0.00	146.34	2,800	50	<10	26	29	280	3.81	7.14	
11/8/2007	P		18.55	Sheen	146.59	3,800	77	<2.5	46	35	270	1.08	7.23	t
2/20/2008	P		12.21	0.00	152.93	2,500	530	<5.0	75	62	43	2.01	6.84	
5/7/2008	P		16.91	0.00	148.23	6,700	1,800	29	270	360	30	2.45	6.87	t
8/20/2008	P		19.45	0.00	145.69	300	22	<2.0	8.5	5.3	260	5.57	6.86	
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		11.12	0.00	154.02	140	6.4	<0.50	2.4	3.1	68	4.38	6.65	
5/28/2009	P		15.70	0.00	149.44	3,800	790	9.5	140	110	11	0.04	6.82	x
8/6/2009	P		18.84	Sheen	146.30	78	<5.0	<5.0	<5.0	<5.0	190	0.06	7.27	x

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-5 Cont.														
3/4/2010	P	165.14	10.02	0.00	155.12	1,200	420	5.5	69	58	15	0.66	6.87	
9/2/2010	NP		16.24	0.00	148.90	200	69	1.3	3.2	7.3	13	0.75	6.75	y
3/15/2011	P		11.36	0.00	153.78	1,700	410	7.9	88	80	5.9	0.85	6.8	
8/17/2011	P		16.62	0.00	148.52	1,900	460	7.6	44	51	<5.0	0.61	7.11	
2/6/2012	**P**		**14.36**	**0.00**	**150.78**	**580**	**140**	**<5.0**	**9.2**	**<10**	**9.8**	**1.31**	**7.21**	
MW-6														
7/9/1990	--	165.40	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	0.17	2.6	7	4.9	26	--	--	--	
3/7/1991	--		--	--	--	--	--	--	--	--	--	--	--	e
4/1/1991	--		11.79	0.00	153.61	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	e
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	e
12/18/1991	--		--	--	--	--	1.3	22	--	2.7	--	--	--	
7/3/1992	--		17.77	0.00	147.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		19.46	0.00	145.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
1/13/1993	--		11.34	0.00	154.06	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		12.92	0.00	152.48	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		17.36	0.00	148.04	<50	<0.5	<0.5	<0.5	0.7	<5.0	--	--	i
10/21/1993	--		19.98	0.00	145.42	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
1/21/1994	--		18.10	0.00	147.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
4/20/1994	--		18.68	0.00	146.72	<50	<0.5	<0.5	<0.5	<0.5	17.4	2	--	i
8/1/1994	--		18.90	0.00	146.50	<50	<0.5	<0.5	<0.5	<0.5	8.66	1.5	--	i
12/23/1994	--		12.94	0.00	152.46	--	--	--	--	--	--	--	--	
1/26/1995	--		10.46	0.00	154.94	<50	<0.5	<0.5	<0.5	<1	--	7.3	--	
6/8/1995	--		16.84	0.00	148.56	--	--	--	--	--	--	--	--	
8/22/1995	--		19.48	0.00	145.92	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.7	--	d
10/27/1995	--		20.39	0.00	145.01	--	--	--	--	--	--	--	--	
1/25/1996	--		12.24	0.00	153.16	<50	<0.50	<0.50	<0.50	<1.0	9.9	--	--	
4/19/1996	--		13.90	0.00	151.50	--	--	--	--	--	--	--	--	
7/23/1996	--		17.83	0.00	147.57	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-6 Cont.														
11/11/1996	--	165.40	18.90	0.00	146.50	<50	<0.5	<1.0	<1.0	<1.0	<10	7.7	--	
1/21/1997	--		11.97	0.00	153.43	--	--	--	--	--	--	--	--	
4/29/1997	--		17.04	0.00	148.36	<50	<0.5	<1.0	<1.0	<1.0	<10	4.5	--	
8/21/1997	--		18.58	0.00	146.82	--	--	--	--	--	--	--	--	
11/5/1997	--		19.17	0.00	146.23	70	<0.5	<1.0	<1.0	<1.0	85	4.3	--	
2/3/1998	--		9.87	0.00	155.53	--	--	--	--	--	--	--	--	
5/28/1998	--		13.38	0.00	152.02	<50	<0.5	<1.0	<1.0	<1.0	<10	3.7	--	
12/30/1998	--		14.45	0.00	150.95	--	--	--	--	--	--	--	--	
2/2/1999	--		18.29	0.00	147.11	--	--	--	--	--	--	--	--	
5/10/1999	--		17.49	0.00	147.91	--	--	--	--	--	--	--	--	
8/24/1999	--		17.61	0.00	147.79	--	--	--	--	--	--	--	--	
11/3/1999	--		16.26	0.00	149.14	--	--	--	--	--	--	--	--	
3/1/2000	--		17.43	0.00	147.97	--	--	--	--	--	--	--	--	
4/21/2000	--		13.32	0.00	152.08	--	--	--	--	--	--	--	--	
7/31/2000	--		13.46	0.00	151.94	--	--	--	--	--	--	--	--	
11/20/2000	--		14.78	0.00	150.62	--	--	--	--	--	--	--	--	
2/18/2001	--		11.33	0.00	154.07	--	--	--	--	--	--	--	--	
6/7/2001	--		16.36	0.00	149.04	--	--	--	--	--	--	--	--	
9/5/2001	--		18.61	0.00	146.79	--	--	--	--	--	--	--	--	
11/30/2001	--		15.20	0.00	150.20	--	--	--	--	--	--	--	--	
2/20/2002	--		12.74	0.00	152.66	--	--	--	--	--	--	--	--	
6/20/2002	--		16.68	0.00	148.72	--	--	--	--	--	--	--	--	
9/11/2002	--		18.38	0.00	147.02	--	--	--	--	--	--	--	--	
11/12/2002	--		18.78	0.00	146.62	--	--	--	--	--	--	--	--	
1/29/2003	--		14.45	0.00	150.95	--	--	--	--	--	--	--	--	n
5/22/2003	--		14.36	0.00	151.04	--	--	--	--	--	--	--	--	
7/28/2003	--		18.43	0.00	146.97	--	--	--	--	--	--	--	--	p
11/18/2003	--		17.48	0.00	147.92	--	--	--	--	--	--	--	--	
02/23/2004	--		11.54	0.00	153.86	--	--	--	--	--	--	--	--	
05/04/2004	--		16.58	0.00	148.82	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-6 Cont.														
08/04/2004	--	165.40	18.12	0.00	147.28	--	--	--	--	--	--	--	--	
11/10/2004	--		15.75	0.00	149.65	--	--	--	--	--	--	--	--	
02/15/2005	--		12.50	0.00	152.90	--	--	--	--	--	--	--	--	
05/16/2005	P		11.51	0.00	153.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.0	
08/17/2005	--		16.85	0.00	148.55	--	--	--	--	--	--	--	--	
11/18/2005	--		--	--	--	--	--	--	--	--	--	--	--	e
02/07/2006	P		9.93	0.00	155.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.1	
5/19/2006	--		--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	--		16.35	0.00	149.05	--	--	--	--	--	--	--	--	
11/15/2006	--		17.42	0.00	147.98	--	--	--	--	--	--	--	--	
2/14/2007	P		12.03	0.00	153.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.07	7.73	
5/22/2007	--		15.11	0.00	150.29	--	--	--	--	--	--	--	--	
8/15/2007	--		18.08	0.00	147.32	--	--	--	--	--	--	--	--	
11/8/2007	--		17.79	0.00	147.61	--	--	--	--	--	--	--	--	
2/20/2008	P		11.81	0.00	153.59	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.29	7.10	
5/7/2008	--		16.75	0.00	148.65	--	--	--	--	--	--	--	--	
8/20/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		9.99	0.00	155.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.39	7.09	
5/28/2009	--		--	--	--	--	--	--	--	--	--	--	--	e
8/6/2009	--		18.33	0.00	147.07	--	--	--	--	--	--	--	--	
3/4/2010	P		9.11	0.00	156.29	<50	<0.50	<0.50	<0.50	<1.0	<0.50	0.88	7.01	
9/2/2010	--		17.80	0.00	147.60	--	--	--	--	--	--	--	--	
3/15/2011	P		10.08	0.00	155.32	<50	<0.50	<0.50	<0.50	<1.0	<0.50	1.43	7.1	
8/17/2011	--		16.50	0.00	148.90	--	--	--	--	--	--	--	--	
2/6/2012	**--**		**14.44**	**0.00**	**150.96**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7														
7/9/1990	--	167.61	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--		19.04	0.00	148.57	--	--	0.4	0.3	2.4	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-7 Cont.														
4/1/1991	--	167.61	15.18	0.00	152.43	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	70	17	4	0.8	2.2	--	--	--	
9/27/1991	--		--	--	--	--	0.4	--	--	0.4	--	--	--	
12/18/1991	--		--	--	--	--	0.7	2.9	0.8	3.3	--	--	--	
7/3/1992	--		20.28	0.00	147.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	
10/5/1992	--		21.56	0.00	146.05	<50	<0.5	<0.5	<0.5	1.5	--	--	--	
1/13/1993	--		15.41	0.00	152.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
4/23/1993	--		15.84	0.00	151.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
7/12/1993	--		19.84	0.00	147.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
10/21/1993	--		21.61	0.00	146.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	i
1/21/1994	--		20.49	0.00	147.12	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	c
1/21/1994	--		20.49	0.00	147.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	i
4/20/1994	--		20.54	0.00	147.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.5	--	i
8/1/1994	--		20.99	0.00	146.62	<50	0.7	<0.5	<0.5	<0.5	<5.0	1.9	--	i
12/23/1994	--		15.00	0.00	152.61	--	--	--	--	--	--	--	--	
1/26/1995	--		14.69	0.00	152.92	<50	<0.5	<0.5	<0.5	<1	--	7	--	
6/8/1995	--		19.87	0.00	147.74	--	--	--	--	--	--	--	--	
8/22/1995	--		21.49	0.00	146.12	<50	<0.50	<0.50	<0.50	<1.0	<5.0	6.4	--	d
10/27/1995	--		22.53	0.00	145.08	--	--	--	--	--	--	--	--	
1/25/1996	--		17.21	0.00	150.40	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	
4/19/1996	--		17.09	0.00	150.52	--	--	--	--	--	--	--	--	
7/23/1996	--		21.02	0.00	146.59	--	--	--	--	--	--	--	--	
11/11/1996	--		22.03	0.00	145.58	<50	<0.5	<1.0	<1.0	<1.0	<10	7.8	--	
1/21/1997	--		15.06	0.00	152.55	--	--	--	--	--	--	--	--	
4/29/1997	--		20.11	0.00	147.50	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	
8/21/1997	--		21.59	0.00	146.02	--	--	--	--	--	--	--	--	
11/5/1997	--		20.05	0.00	147.56	<50	<0.5	<1.0	<1.0	<1.0	<10	4.4	--	
2/3/1998	--		9.97	0.00	157.64	--	--	--	--	--	--	--	--	
5/28/1998	--		13.52	0.00	154.09	<50	<0.5	<1.0	<1.0	<1.0	<10	4.3	--	
12/30/1998	--		18.33	0.00	149.28	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-7 Cont.														
2/2/1999	--	167.61	12.33	0.00	155.28	--	--	--	--	--	--	--	--	
5/10/1999	--		13.52	0.00	154.09	--	--	--	--	--	--	--	--	
8/24/1999	--		14.01	0.00	153.60	--	--	--	--	--	--	--	--	
11/3/1999	--		19.91	0.00	147.70	--	--	--	--	--	--	--	--	
3/1/2000	--		19.89	0.00	147.72	--	--	--	--	--	--	--	--	
4/21/2000	--		17.94	0.00	149.67	--	--	--	--	--	--	--	--	
7/31/2000	--		17.33	0.00	150.28	--	--	--	--	--	--	--	--	
11/20/2000	--		18.41	0.00	149.20	--	--	--	--	--	--	--	--	
2/18/2001	--		15.13	0.00	152.48	--	--	--	--	--	--	--	--	
6/7/2001	--		18.75	0.00	148.86	--	--	--	--	--	--	--	--	
9/5/2001	--		20.48	0.00	147.13	--	--	--	--	--	--	--	--	
11/30/2001	--		20.11	0.00	147.50	--	--	--	--	--	--	--	--	
2/20/2002	--		18.40	0.00	149.21	--	--	--	--	--	--	--	--	
6/20/2002	--		18.62	0.00	148.99	--	--	--	--	--	--	--	--	
9/11/2002	--		20.05	0.00	147.56	--	--	--	--	--	--	--	--	
11/12/2002	--		21.13	0.00	146.48	--	--	--	--	--	--	--	--	n
1/29/2003	--		19.10	0.00	148.51	--	--	--	--	--	--	--	--	
5/22/2003	--		18.83	0.00	148.78	--	--	--	--	--	--	--	--	
7/28/2003	--		19.88	0.00	147.73	--	--	--	--	--	--	--	--	p
11/18/2003	--	168.08	20.50	0.00	147.58	--	--	--	--	--	--	--	--	s
11/18/2003	--		20.50	0.00	147.58	--	--	--	--	--	--	--	--	
02/23/2004	--		15.92	0.00	152.16	--	--	--	--	--	--	--	--	
05/04/2004	--		18.86	0.00	149.22	--	--	--	--	--	--	--	--	
08/04/2004	--		19.10	0.00	148.98	--	--	--	--	--	--	--	--	
11/10/2004	--		20.25	0.00	147.83	--	--	--	--	--	--	--	--	
02/15/2005	--		16.37	0.00	151.71	--	--	--	--	--	--	--	--	
05/16/2005	--		--	--	--	--	--	--	--	--	--	--	--	e
08/17/2005	--		19.74	0.00	148.34	--	--	--	--	--	--	--	--	
11/18/2005	--		20.82	0.00	147.26	--	--	--	--	--	--	--	--	
02/07/2006	P		14.26	0.00	153.82	<500	<5.0	<5.0	<5.0	<5.0	270	--	7.3	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-7 Cont.														
5/19/2006	--	168.08	16.51	0.00	151.57	--	--	--	--	--	--	--	--	
8/23/2006	--		20.30	0.00	147.78	--	--	--	--	--	--	--	--	
11/15/2006	--		20.85	0.00	147.23	--	--	--	--	--	--	--	--	
2/14/2007	P		16.57	0.00	151.51	520	<5.0	<5.0	<5.0	<5.0	740	3.08	7.30	v
5/22/2007	--		18.40	0.00	149.68	--	--	--	--	--	--	--	--	
8/15/2007	--		20.85	0.00	147.23	--	--	--	--	--	--	--	--	
11/8/2007	--		20.41	0.00	147.67	--	--	--	--	--	--	--	--	
2/20/2008	P		15.90	0.00	152.18	<50	<0.50	<0.50	<0.50	<0.50	700	4.34	7.09	
5/7/2008	--		19.41	0.00	148.67	--	--	--	--	--	--	--	--	
8/20/2008	--		21.34	0.00	146.74	--	--	--	--	--	--	--	--	
11/17/2008	--		20.54	0.00	147.54	--	--	--	--	--	--	--	--	
2/25/2009	P		14.89	0.00	153.19	130	<20	<20	<20	<20	540	4.28	6.87	
5/28/2009	--		18.57	0.00	149.51	--	--	--	--	--	--	--	--	
8/6/2009	--		20.83	0.00	147.25	--	--	--	--	--	--	--	--	
3/4/2010	P		14.02	0.00	154.06	430	<0.50	<0.50	<0.50	<1.0	920	3.30	7.02	
9/2/2010	--		20.43	0.00	147.65	--	--	--	--	--	--	--	--	
3/15/2011	P		14.86	0.00	153.22	<1,000	<0.50	<0.50	<0.50	<1.0	990	4.05	7.0	
8/17/2011	--		19.01	0.00	149.07	--	--	--	--	--	--	--	--	
2/6/2012	**P**		**18.20**	**0.00**	**149.88**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**22**	**1.58**	**7.44**	
MW-8														
3/7/1991	--	165.74	16.72	0.00	149.02	2.7	780	450	64	310	--	--	--	
4/1/1991	--		12.54	0.00	153.20	15,000	3,600	2,600	410	1,900	--	--	--	
6/27/1991	--		--	--	--	12,000	3,400	1,100	240	750	--	--	--	
9/27/1991	--		--	--	--	41	5,700	5,200	1,100	4,300	--	--	--	
12/18/1991	--		--	--	--	3.2	990	150	120	250	--	--	--	
7/3/1992	--		18.78	0.00	146.96	72,000	19,000	32,000	3,000	15,000	--	--	--	
10/5/1992	--		20.48	0.00	145.26	--	--	--	--	--	--	--	--	
1/13/1993	--		12.87	0.00	152.87	--	--	--	--	--	--	--	--	
4/23/1993	--		13.90	0.00	151.84	--	--	--	--	--	--	--	--	t
7/12/1993	--		18.30	0.00	147.44	--	--	--	--	--	--	--	--	t

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-8 Cont.														
10/21/1993	--	165.74	21.91	0.00	142.88	--	--	--	--	--	--	--	--	
10/2/93-12/9/98	--		--	0.12	--	--	--	--	--	--	--	--	--	
1/21/1994	--		19.12	0.00	146.62	--	--	--	--	--	--	--	--	
4/20/1994	--		19.28	0.00	146.46	26,000	1,700	4,100	960	4,000	632	1.1	--	i
8/1/1994	--		--	--	--	--	--	--	--	--	--	--	--	
12/23/1994	--		13.81	0.00	151.93	--	--	--	--	--	--	--	--	
1/26/1995	--		--	--	--	--	--	--	--	--	--	--	--	
6/8/1995	--		17.82	0.00	147.92	--	--	--	--	--	--	--	--	
8/22/1995	--		19.41	0.00	146.33	--	--	--	--	--	--	--	--	
10/27/1995	--		20.47	0.00	145.27	--	--	--	--	--	--	--	--	
1/25/1996	--		13.35	0.00	152.39	--	--	--	--	--	--	--	--	
4/19/1996	--		14.40	0.00	151.34	--	--	--	--	--	--	--	--	
7/23/1996	--		18.35	0.00	147.39	--	--	--	--	--	--	--	--	
11/11/1996	--		19.41	0.00	146.33	--	--	--	--	--	--	--	--	
1/21/1997	--		12.29	0.00	153.45	--	--	--	--	--	--	--	--	
4/29/1997	--		--	--	--	--	--	--	--	--	--	--	--	e
8/21/1997	--		19.61	0.00	146.13	240,000	1,100	9,300	4,100	31,100	<1000	5.2	--	
11/5/1997	--		19.45	0.00	146.29	57,000	790	2,700	2,300	15,200	<1000	5	--	
2/3/1998	--		9.33	0.00	156.41	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	94,000	570	1,500	2,100	15,200	<2500	5.5	--	
5/28/1998	--		--	--	--	--	--	--	--	--	--	--	--	e
12/30/1998	--		15.48	0.00	150.26	120,000	460	2,300	2,200	15,000	150	--	--	
2/2/1999	--		18.29	0.00	147.45	82,000	450	2,200	3,700	26,000	<500	--	--	
5/10/1999	--		15.62	0.00	150.12	28,000	740	1,800	1,100	5,800	<25	--	--	
8/24/1999	--		18.41	0.00	147.33	75,000	530	1,400	3,300	21,000	150	--	--	
11/3/1999	--		18.71	0.00	147.03	70,000	600	1,300	3,600	20,500	750	--	--	
3/1/2000	--		19.37	0.00	146.37	27,000	1,600	1,200	2,600	6,600	120	--	--	
4/21/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
7/31/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--		17.42	0.00	148.32	1,300,000	1,400	1,700	20,000	16,000	5,700	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-8 Cont.														
2/18/2001	--	165.74	--	--	--	--	--	--	--	--	--	--	--	e
6/7/2001	--		--	--	--	--	--	--	--	--	--	--	--	e
9/5/2001	--		21.45	0.04	144.25	--	--	--	--	--	--	--	--	j
11/30/2001	--		18.31	0.00	147.43	--	--	--	--	--	--	--	--	h
12/6/2001	--		--	--	--	--	--	--	--	--	--	--	--	e
2/20/2002	--		14.02	0.00	151.72	20,000	163	114	403	3,810	80.4	--	--	
6/20/2002	--		17.56	0.00	148.18	28,000	466	141	962	5,850	2,520	--	--	
9/11/2002	--		19.45	0.00	146.29	190,000	1,500	670	4,500	23,000	1,200	--	--	
11/12/2002	--		19.15	0.00	146.59	420	6.4	2.9	16	110	31	--	--	t
1/29/2003	--		15.02	0.00	150.72	200,000	810	<500	2,000	11,000	<500	--	--	n
5/22/2003	--		15.07	0.00	150.67	--	--	--	--	--	--	--	--	t
6/24/2003	--		17.95	0.00	147.79	43,000	860	300	2,100	9,600	46	--	--	
7/28/2003	--		19.45	0.00	146.29	62,000	690	230	1,800	15,000	2,100	--	--	
8/12/2003	--		19.40	<0.01	146.34	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		19.34	0.00	146.40	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
11/18/2003	P		18.80	<0.01	146.94	8,800	500	37	530	930	1,700	--	--	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	P		12.82	<0.01	152.92	32,000	840	360	1,000	7,100	110	--	6.6	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.87	<0.01	146.87	42,000	570	230	1,700	8,400	2,000	--	7.0	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
08/04/2004	--		19.37	0.05	146.41	--	--	--	--	--	--	--	--	
09/22/2004	NP		19.60	0.00	146.14	--	--	--	--	--	--	--	--	
11/10/2004	P		16.58	0.00	149.16	11,000	790	61	1,000	830	74	--	7.3	t
02/15/2005	P		12.85	0.00	152.89	38,000	1,300	390	2,300	7,900	<50	--	7.2	
05/16/2005	P		12.22	0.00	153.52	31,000	1,000	360	2,500	7,500	<50	--	6.5	
08/17/2005	P		17.80	0.00	147.94	60,000	540	240	2,500	8,600	<50	--	6.7	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-8 Cont.														
11/18/2005	P	165.74	21.02	0.00	144.72	33,000	340	120	1,400	4,900	140	--	6.9	
02/07/2006	P		10.73	0.00	155.01	5,700	94	27	260	820	7.5	--	6.6	
5/19/2006	P		13.89	0.00	151.85	40,000	1,100	320	2,900	6,000	<25	--	6.6	t
8/23/2006	P		18.85	0.00	146.89	21,000	520	150	1,800	6,300	82	--	7.35	
11/15/2006	P		18.75	0.00	146.99	3,300	81	<25	130	430	110	0.81	6.91	
2/14/2007	P		13.45	Sheen	152.29	9,300	320	<25	360	710	82	1.89	7.13	t
5/22/2007	P		15.92	Sheen	149.82	17,000	370	51	760	1,600	11	1.05	6.99	t
8/15/2007	P		19.11	Sheen	146.63	17,000	170	44	1,000	2,700	28	3.93	7.08	
11/8/2007	P		18.46	Sheen	147.28	24,000	150	43	1,100	3,200	27	1.29	7.14	t
2/20/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
5/7/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
8/20/2008	--		19.66	0.01	146.09	--	--	--	--	--	--	--	--	b
11/17/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
2/25/2009	P		11.50	Sheen	154.24	3,400	160	11	88	65	35	2.18	6.98	t
4/8/2009	--		14.55	0.00	151.19	--	--	--	--	--	--	--	--	
5/28/2009	P		16.12	Sheen	149.62	8,300	410	54	660	800	<2.5	0.06	6.78	t, x
6/16/2009	--		17.63	0.00	148.11	--	--	--	--	--	--	--	--	
8/6/2009	--		--	--	--	--	--	--	--	--	--	--	--	e
3/4/2010	P		10.33	0.00	155.41	11,000	520	110	830	1,600	<5.0	0.82	6.72	
9/2/2010	P		18.52	0.00	147.22	6,900	180	24	280	480	<5.0	0.56	6.75	
3/15/2011	P		11.03	Sheen	154.71	14,000	470	150	1,400	3,000	<2.5	0.90	6.6	
8/17/2011	P		17.14	0.00	148.60	4,100	180	24	280	340	<5.0	0.61	7.08	
2/6/2012	**P**		**15.07**	**0.00**	**150.67**	**5,100**	**140**	**18**	**210**	**220**	**<5.0**	**0.91**	**7.17**	
MW-9														
3/7/1991	--	166.20	16.79	0.00	149.41	7.1	220	4	2.4	2,400	--	--	--	
4/1/1991	--		12.89	0.00	153.31	12,000	2,000	2,600	360	1,600	--	--	--	
6/27/1991	--		--	--	--	3,600	520	400	85	310	--	--	--	
9/27/1991	--		--	--	--	3.2	720	150	50	180	--	--	--	
12/18/1991	--		--	--	--	--	2.5	1.1	0.3	5.8	--	--	--	
7/3/1992	--		18.89	0.00	147.31	5,700	17,000	840	230	800	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-9 Cont.														
10/5/1992	--	166.20	20.52	0.00	145.68	1,400	440	17	14	100	--	--	--	
1/13/1993	--		12.92	0.00	153.28	11,000	1,200	1,600	330	1,300	--	--	--	c,i
1/13/1993	--		12.92	0.00	153.28	11,000	1,200	1,700	340	1,400	--	--	--	i
4/23/1993	--		14.08	0.00	152.12	24,000	2,800	4,500	730	3,400	--	--	--	i
7/12/1993	--		18.44	0.00	147.76	10,000	1,200	900	310	1,200	--	--	--	c
7/12/1993	--		18.44	0.00	147.76	13,000	1,400	1,100	360	1,400	20.8	--	--	i
10/21/1993	--		21.81	0.00	143.50	--	--	--	--	--	--	--	--	
11/2/93-4/29/97	--		--	0.10	--	--	--	--	--	--	--	--	--	
1/21/1994	--		19.28	0.00	146.92	--	--	--	--	--	--	--	--	
4/20/1994	--		19.72	0.00	146.48	45,000	2,700	6,800	1,200	8,200	740	--	--	c,d
4/20/1994	--		19.72	0.00	146.48	43,000	2,800	6,800	1,300	7,900	768	1.7	--	i
8/1/1994	--		20.18	0.00	146.02	--	--	--	--	--	--	--	--	
12/23/1994	--		14.22	0.00	151.98	--	--	--	--	--	--	--	--	
1/26/1995	--		11.85	0.00	154.35	--	--	--	--	--	--	--	--	
6/8/1995	--		18.33	0.00	147.87	--	--	--	--	--	--	--	--	
8/22/1995	--		19.95	0.00	146.25	--	--	--	--	--	--	--	--	
10/27/1995	--		20.88	0.00	145.32	--	--	--	--	--	--	--	--	
1/25/1996	--		13.84	0.00	152.36	--	--	--	--	--	--	--	--	
4/19/1996	--		--	--	--	--	--	--	--	--	--	--	--	e
7/23/1996	--		18.84	0.00	147.36	--	--	--	--	--	--	--	--	
11/11/1996	--		19.91	0.00	146.29	--	--	--	--	--	--	--	--	
1/21/1997	--		12.93	0.00	153.27	--	--	--	--	--	--	--	--	
4/29/1997	--		18.03	0.10	148.17	--	--	--	--	--	--	--	--	t
4/30/1997	--		--	--	--	78,000	1,900	3,600	3,100	20,600	<5000	5.5	--	
8/21/1997	--		19.56	0.00	146.64	110,000	2,100	3,400	2,300	18,800	<500	5.1	--	
11/5/1997	--		20.59	0.01	145.60	59,000	1,400	1,700	2,200	17,000	<500	4.5	--	
2/3/1998	--		10.56	0.00	155.64	55,000	490	1,200	1,400	10,200	<1000	4.9	--	
5/28/1998	--		14.21	0.00	151.99	53,000	290	830	1,400	10,500	<500	--	--	c
5/28/1998	--		14.21	0.00	151.99	41,000	250	1,200	1,500	11,400	<250	3.8	--	
12/30/1998	--		15.61	0.00	150.59	83,000	860	1,300	2,400	21,000	180	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-9 Cont.														
2/2/1999	--	166.20	12.33	0.00	153.87	75,000	530	960	1,900	17,000	<50	--	--	
5/10/1999	--		15.67	0.00	150.53	22,000	600	1,500	1,100	4,400	72	--	--	
8/24/1999	--		19.10	0.00	147.10	85,000	850	1,300	1,700	20,000	<250	--	--	
11/3/1999	--		19.58	0.00	146.62	72,000	700	780	1,900	19,000	<5.0	--	--	
3/1/2000	--		13.19	0.00	153.01	34,000	78	490	1,100	8,200	63	--	--	
4/21/2000	--		14.29	0.00	151.91	55,000	260	920	1,500	16,000	<5.0	--	--	
7/31/2000	--		15.01	0.00	151.19	1,200,000	1,500	6,300	15,000	120,000	1,600	--	--	
11/20/2000	--		18.23	0.00	147.97	320,000	3,500	19,000	5,000	40,000	3,900	--	--	
2/18/2001	--		13.14	0.00	153.06	32,000	290	417	1,180	10,400	121	--	--	
6/7/2001	--		17.41	0.00	148.79	96,000	421	704	2,330	17,300	223	--	--	
9/5/2001	--		20.56	0.00	145.64	39,000	445	323	1,240	8,940	310	--	--	
11/30/2001	--		17.42	0.00	148.78	60,000	310	586	1,890	14,200	285	--	--	
2/20/2002	--		13.87	0.00	152.33	14,000	64	122	897	2,650	293	--	--	
6/20/2002	--		18.22	0.00	147.98	29,000	307	168	1,100	5,670	208	--	--	
9/11/2002	--		20.27	0.00	145.93	230,000	1,400	680	3,600	23,000	<2500	--	--	
11/12/2002	--		19.40	0.00	146.80	840	5.8	3.6	28	160	21	--	--	t
1/29/2003	--		14.30	0.10	151.80	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		15.16	0.00	151.04	23,000	260	<50	1,000	2,900	<50	--	--	t
6/24/2003	--		--	--	--	--	--	--	--	--	--	--	--	e
7/28/2003	--		19.55	<0.01	146.65	1,500,000	<500	<500	9,800	79,000	<500	--	--	
8/12/2003	--		19.60	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		19.60	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
11/18/2003	P		18.98	<0.01	147.22	19,000	250	18	690	2,400	45	--	6.8	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	P		13.91	<0.01	152.29	91,000	<250	440	2,200	13,000	<250	--	6.8	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.11	<0.01	148.09	39,000	230	44	1,100	4,200	<25	--	6.9	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-9 Cont.														
08/04/2004	--	166.20	18.90	0.03	147.32	--	--	--	--	--	--	--	--	
09/22/2004	NP		19.69	0.00	146.51	--	--	--	--	--	--	--	--	
11/10/2004	NP		16.95	0.00	149.25	31,000	300	<50	1,100	3,800	<50	--	7.3	t
02/15/2005	P		12.95	0.00	153.25	19,000	200	<50	720	2,000	<50	--	7.3	t
05/16/2005	P		12.53	0.00	153.67	17,000	99	15	770	2,500	<10	--	6.7	
08/17/2005	P		18.03	0.00	148.17	28,000	160	26	1,000	2,700	<12	--	6.8	
11/18/2005	P		19.04	0.00	147.16	12,000	98	<5.0	410	510	19	--	7.1	
02/07/2006	P		10.95	Sheen	155.25	18,000	110	8.7	770	1,500	<5.0	--	6.9	t
5/19/2006	--		--	--	--	--	--	--	--	--	--	--	--	e
8/23/2006	P		18.91	0.00	147.29	28,000	84	<50	1,600	6,200	<50	--	7.3	
11/15/2006	P		18.60	0.00	147.60	8,200	44	<25	190	370	26	0.92	6.88	
2/14/2007	P		13.30	0.00	152.90	20,000	64	<25	720	2,000	<25	0.87	7.17	t
5/22/2007	P		16.14	Sheen	150.06	16,000	80	<25	460	1,200	<25	0.81	7.08	t
8/15/2007	P		19.31	Sheen	146.89	5,900	27	<2.5	59	170	27	2.57	6.98	
11/8/2007	P		18.70	0.00	147.50	6,100	29	<5.0	98	250	52	1.24	7.47	
2/20/2008	--		12.79	0.03	153.43	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		17.68	0.03	148.54	--	--	--	--	--	--	--	--	b, j
8/20/2008	--		19.75	0.01	146.46	--	--	--	--	--	--	--	--	b
11/17/2008	P		18.73	0.00	147.47	10,000	24	<2.5	160	140	33	--	6.64	w
2/25/2009	P		11.23	Sheen	154.97	14,000	60	<10	550	140	<10	2.27	6.69	t
4/8/2009	--		14.21	0.00	151.99	--	--	--	--	--	--	--	--	
5/28/2009	P		16.33	Sheen	149.87	15,000	49	<10	790	1,500	<10	0.07	6.83	t, x
6/16/2009	--		17.82	0.01	148.39	--	--	--	--	--	--	--	--	
8/6/2009	P		19.25	Sheen	146.95	6,800	19	<2.0	120	250	18	0.00	7.26	x
3/4/2010	P		10.32	0.00	155.88	6,000	29	<2.5	<2.5	100	<2.5	0.62	6.84	
9/2/2010	NP		18.72	0.00	147.48	5,700	31	<2.5	160	120	<2.5	0.46	6.85	
3/15/2011	P		11.08	0.00	155.12	6,500	17	<2.5	150	73	<2.5	1.07	6.8	
8/17/2011	--		17.35	0.00	148.85	5,200	9.5	<2.5	71	54	<2.5	0.64	7.18	
2/6/2012	**P**		**15.52**	**0.00**	**150.68**	**4,200**	**14**	**<2.5**	**49**	**22**	**<2.5**	**1.43**	**7.21**	
MW-10														

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-10 Cont.														
3/7/1991	--	167.01	18.09	0.00	148.92	1.6	120	190	32	230	--	--	--	
4/1/1991	--		13.92	0.00	153.09	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	12,000	7,300	500	150	300	--	--	--	
9/27/1991	--		--	--	--	57	12,000	7,200	1,400	4,600	--	--	--	
12/18/1991	--		--	--	--	5.3	2,500	120	36	79	--	--	--	
7/3/1992	--		19.92	0.00	147.09	8,600	5,100	1,300	180	690	--	--	--	
10/5/1992	--		21.92	0.00	145.09	--	--	--	--	--	--	--	--	
1/13/1993	--		14.43	0.00	152.58	--	--	--	--	--	--	--	--	
4/23/1993	--		15.26	0.00	151.75	--	--	--	--	--	--	--	--	
7/12/1993	--		19.78	0.00	147.23	--	--	--	--	--	--	--	--	
10/21/1993	--		22.90	0.00	144.11	--	--	--	--	--	--	--	--	
1/21/1994	--		20.25	0.00	146.76	--	--	--	--	--	--	--	--	
4/20/1994	--		20.74	0.00	146.27	100,000	12,000	24,000	2,400	14,000	1,577	1	--	d,i
8/1/1994	--		22.00	0.00	145.01	--	--	--	--	--	--	--	--	
12/23/1994	--		16.08	0.00	150.93	--	--	--	--	--	--	--	--	
1/26/1995	--		13.68	0.00	153.33	--	--	--	--	--	--	--	--	
6/8/1995	--		19.08	0.00	147.93	--	--	--	--	--	--	--	--	
8/22/1995	--		20.73	0.00	146.28	--	--	--	--	--	--	--	--	
10/27/1995	--		21.69	0.00	145.32	--	--	--	--	--	--	--	--	
1/25/1996	--		15.05	0.00	151.96	--	--	--	--	--	--	--	--	
4/19/1996	--		16.26	0.00	150.75	--	--	--	--	--	--	--	--	
7/23/1996	--		20.18	0.00	146.83	--	--	--	--	--	--	--	--	
9/4/1996	--		--	0.76	--	--	--	--	--	--	--	--	--	
11/11/1996	--		21.20	0.00	145.81	--	--	--	--	--	--	--	--	
1/21/1997	--		13.66	0.00	153.35	--	--	--	--	--	--	--	--	
4/29/1997	--		18.71	0.00	148.30	--	--	--	--	--	--	--	--	
4/30/1997	--		--	--	--	170,000	9,700	38,000	4,700	30,500	<5000	5.6	--	
8/21/1997	--		20.19	0.00	146.82	170,000	9,500	35,000	4,300	27,100	<5000	5.3	--	
11/5/1997	--		20.52	0.00	146.49	80,000	3,800	12,000	2,700	15,700	<500	4.4	--	
12/2/1997	--		--	0.03	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-10 Cont.														
2/3/1998	--	167.01	10.62	0.00	156.39	--	--	--	--	--	--	--	--	
2/4/1998	--		--	--	--	72,000	500	1,300	1,700	12,000	<1000	5.1	--	
5/28/1998	--		15.46	0.00	151.55	220,000	3,200	24,000	5,200	43,000	<1000	4.8	--	
12/30/1998	--		16.65	0.00	150.36	110,000	3,500	14,000	5,800	50,000	<50	--	--	
2/2/1999	--		14.58	0.00	152.43	74,000	1,000	2,800	1,000	26,000	860	--	--	
5/10/1999	--		15.72	0.00	151.29	81,000	2,800	2,800	3,000	17,000	220	--	--	
8/24/1999	--		19.85	0.00	147.16	54,000	3,500	3,800	1,500	9,100	<250	--	--	
11/3/1999	--		20.00	0.00	147.01	30,000	3,000	3,500	1,200	5,000	31	--	--	
3/1/2000	--		14.62	0.00	152.39	62,000	320	1,200	1,100	26,000	4,400	--	--	
4/21/2000	--		15.46	0.00	151.55	88,000	2,700	7,400	3,700	35,000	2,400	--	--	
7/31/2000	--		--	--	--	--	--	--	--	--	--	--	--	e
11/20/2000	--		18.74	0.00	148.27	78,000	3,800	5,500	2,800	13,000	450	--	--	
2/18/2001	--		14.10	0.00	152.91	39,000	1,050	1,160	1,550	14,700	4,180	--	--	
6/7/2001	--		18.78	0.00	148.23	76,000	2,460	2,840	3,330	20,700	635	--	--	
9/5/2001	--		21.40	0.01	145.60	25,000	2,510	2,070	1,090	4,540	189	--	--	
11/30/2001	--		18.50	0.00	148.51	100,000	2,480	5,720	3,890	22,800	325	--	--	
2/20/2002	--		14.39	0.00	152.62	49,000	2,170	3,070	1,960	12,300	1,090	--	--	
6/20/2002	--		18.80	0.00	148.21	44,000	2,040	3,050	1,690	8,430	224	--	--	
9/11/2002	--		20.52	0.00	146.49	28,000	1,200	2,700	1,400	6,800	<250	--	--	
11/12/2002	--		20.37	0.07	146.57	--	--	--	--	--	--	--	--	j
1/29/2003	--		16.33	0.03	150.65	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		16.32	0.00	150.69	13,000	2,100	850	630	1,600	300	--	--	t
6/24/2003	--		18.73	0.04	148.24	--	--	--	--	--	--	--	--	o
7/28/2003	--		20.39	0.04	146.58	--	--	--	--	--	--	--	--	j
8/12/2003	--		20.43	<0.01	146.58	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		20.41	0.00	146.60	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
11/18/2003	P		19.55	<0.01	147.46	9,900	2,200	530	320	860	<50	--	6.8	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
2/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-10 Cont.														
02/23/2004	P	167.01	15.45	<0.01	151.56	46,000	1,900	2,000	1,800	9,000	180	--	6.7	t
3/18/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
4/13/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
05/04/2004	P		18.81	<0.01	148.20	35,000	3,100	3,600	1,400	5,600	<25	--	7.1	t
6/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	<0.01	--	--	--	--	--	--	--	--	--	
08/04/2004	--		18.90	0.00	148.11	--	--	--	--	--	--	--	--	
09/22/2004	NP		20.60	0.00	146.41	--	--	--	--	--	--	--	--	
11/10/2004	P		17.95	0.00	149.06	9,800	470	91	450	1,700	230	--	7.3	t
01/13/2005	--		12.21	0.00	154.80	--	--	--	--	--	--	--	--	
02/15/2005	P		14.19	0.00	152.82	30,000	510	330	1,800	7,200	77	--	7.2	
05/16/2005	P		13.85	0.00	153.16	37,000	540	730	2,100	9,200	<50	--	6.7	
08/17/2005	P		19.01	0.00	148.00	15,000	1,100	420	1,200	4,100	<50	--	6.7	
11/18/2005	P		19.95	0.00	147.06	12,000	1,200	240	550	1,300	16	--	6.8	
02/07/2006	P		12.28	Sheen	154.73	22,000	340	580	1,300	4,500	73	--	6.8	t
5/19/2006	P		15.12	0.00	151.89	40,000	690	430	2,600	4,900	<25	--	6.9	t
8/23/2006	P		20.00	0.00	147.01	13,000	1,500	540	1,200	3,000	<10	--	6.97	
11/15/2006	P		19.84	0.00	147.17	3,800	700	22	67	160	54	0.65	6.78	
2/14/2007	P		14.94	Sheen	152.07	37,000	350	120	2,400	8,100	120	2.12	7.05	t
5/22/2007	P		17.17	Sheen	149.84	13,000	810	130	750	2,200	15	0.06	7.10	t
8/15/2007	P		20.30	Sheen	146.71	4,400	550	38	160	310	<10	3.09	7.09	
11/8/2007	P		19.58	Sheen	147.43	13,000	970	130	480	1,600	6.0	1.47	7.95	t
2/20/2008	--		14.27	0.05	152.78	--	--	--	--	--	--	--	--	b, j
5/7/2008	P		18.61	0.00	148.40	16,000	970	150	770	2,000	<20	2.18	6.98	t
8/20/2008	--		20.71	0.01	146.31	--	--	--	--	--	--	--	--	b
11/17/2008	P		19.71	0.00	147.30	10,000	960	57	270	720	23	--	6.54	t, w
2/25/2009	P		13.10	0.00	153.91	2,900	53	14	69	160	170	4.06	6.68	
4/8/2009	--		15.91	0.00	151.10	--	--	--	--	--	--	--	--	
5/28/2009	P		17.37	Sheen	149.64	15,000	640	280	790	2,500	65	0.03	6.69	t, x
6/16/2009	--		18.79	0.01	148.23	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE			
MW-10 Cont.														
8/6/2009	P	167.01	20.19	Sheen	146.82	23,000	850	490	1,200	4,100	<25	0.06	7.23	x
3/4/2010	P		12.32	Sheen	154.69	12,000	71	72	740	1,800	<2.5	0.56	6.81	
9/2/2010	--		19.63	0.02	147.40	--	--	--	--	--	--	--	--	b, j
3/15/2011	--		13.20	0.01	153.82	--	--	--	--	--	--	--	--	b, j
8/17/2011	P		18.27	0.00	148.74	4,000	780	39	250	290	<5.0	0.44	7.18	
2/6/2012	**P**		**16.32**	**0.00**	**150.69**	**6,300**	**1,100**	**39**	**340**	**470**	**<5.0**	**0.71**	**7.21**	
QC-2														
10/5/1992	--	168.01	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/13/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f,i
4/23/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f,i
7/12/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
10/21/1993	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/21/1994	--		--	--	--	<50	<0.5	2.1	<0.5	2.1	--	--	--	f
4/20/1994	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
12/23/1994	--		--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	f
1/26/1995	--		--	--	--	<50	<0.5	<0.5	<0.5	<1	--	--	--	f
6/8/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	--	f
8/22/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	d,f
10/30/1995	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	f
1/25/1996	--		--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	--	--	f
4/19/1996	--		--	--	--	<50	<0.5	<1	<1	<1	<10	--	--	f
RW-1														
7/9/1990	--	168.01	--	--	--	--	--	--	--	--	--	--	--	
12/21/1990	--		--	--	--	--	--	--	--	--	--	--	--	
3/7/1991	--		17.62	0.00	150.39	--	--	--	--	--	--	--	--	t
4/1/1991	--		14.40	0.00	153.61	--	--	--	--	--	--	--	--	
6/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
9/27/1991	--		--	--	--	--	--	--	--	--	--	--	--	
12/18/1991	--		--	--	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
RW-1 Cont.														
7/3/1992	--	168.01	20.66	0.00	147.35	--	--	--	--	--	--	--	--	t
10/5/1992	--		23.34	0.00	144.67	--	--	--	--	--	--	--	--	
1/13/1993	--		16.59	0.00	151.42	--	--	--	--	--	--	--	--	
4/23/1993	--		16.17	0.00	151.84	--	--	--	--	--	--	--	--	
7/12/1993	--		20.18	0.00	147.83	--	--	--	--	--	--	--	--	
10/21/1993	--		25.70	0.00	142.31	--	--	--	--	--	--	--	--	
1/21/1994	--		21.24	0.00	146.77	--	--	--	--	--	--	--	--	
4/20/1994	--		32.20	0.00	135.81	--	--	--	--	--	--	--	--	
8/1/1994	--		21.70	0.00	146.31	29,000	580	950	300	7,800	1,200	1.1	--	d
12/23/1994	--		16.02	0.00	151.99	1,300	25	8.6	1.4	69	616	1.8	--	i
1/26/1995	--		13.78	0.00	154.23	<50	<0.5	<0.5	<0.5	<1	--	--	--	
1/26/1995	--		13.78	0.00	154.23	<50	<0.5	<0.5	<0.5	<1	--	--	--	c
6/8/1995	--		20.05	0.00	147.96	1,300	130	<1.0	<1.0	36	--	--	--	
8/22/1995	--		21.74	0.00	146.27	2,800	210	9.3	4.3	250	<25	--	--	c
8/22/1995	--		21.74	0.00	146.27	3,300	230	13	4.9	280	<25	6.6	--	d
10/27/1995	--		32.00	0.00	136.01	--	--	--	--	--	--	--	--	
10/30/1995	--		--	--	--	240	1.6	<1.0	<1.0	<2.0	630	--	--	c
10/30/1995	--		--	--	--	230	1.4	<1.0	<1.0	<2.0	650	6.9	--	
1/25/1996	--		15.41	0.00	152.60	15,000	3,400	930	330	2,500	5,300	--	--	
4/19/1996	--		16.83	0.00	151.18	35,000	5,500	3,300	1,700	9,400	14,000	7.6	--	
4/19/1996	--		16.83	0.00	151.18	33,000	5,600	3,200	1,700	8,800	15,000	--	--	c
7/23/1996	--		20.76	0.00	147.25	47,000	3,700	2,500	930	5,300	35,000	--	--	c
7/23/1996	--		20.76	0.00	147.25	46,000	3,600	2,300	900	5,100	36,000	7.4	--	
11/11/1996	--		21.73	0.00	146.28	31,000	2,900	1,000	860	4,600	22,000	--	--	c
11/11/1996	--		21.73	0.00	146.28	34,000	3,000	1,200	880	4,600	22,000	8.3	--	
1/21/1997	--		14.20	0.00	153.81	270	42	17	2.7	36	1,500	--	--	c
1/21/1997	--		14.20	0.00	153.81	260	40	16	2.7	34	1,500	6.1	--	
4/29/1997	--		19.15	0.00	148.86	32,000	3,100	590	1,300	6,000	46,000	5.3	--	
8/21/1997	--		20.67	0.00	147.34	7,600	730	58	370	1,780	9,500	4.7	--	
11/5/1997	--		21.01	0.00	147.00	39,000	2,300	86	1,300	3,840	56,000	4.5	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
RW-1 Cont.														
2/3/1998	--	168.01	10.68	0.00	157.33	3,400	31	11	29	161	3,200	5.1	--	
5/28/1998	--		15.55	0.00	152.46	2,000	90	15	60	305	2,700	4.3	--	
12/30/1998	--		17.35	0.00	150.66	--	--	--	--	--	--	--	--	
2/2/1999	--		14.58	0.00	153.43	82,000	2,300	120	2,000	3,200	51000/78000	--	--	g
5/10/1999	--		16.00	0.00	152.01	15,000	620	88	340	660	61,000	--	--	
8/24/1999	--		20.00	0.00	148.01	52,000	1,400	170	2,200	2,900	37,000	--	--	
11/3/1999	--		20.39	0.00	147.62	17,000	2,500	86	1,500	970	54,000	--	--	
3/1/2000	--		12.97	0.00	155.04	17,000	580	78	790	1,100	13,000	--	--	
4/21/2000	--		16.02	0.00	151.99	31,000	2,100	100	1,400	1,100	39,000	--	--	
7/31/2000	--		21.89	0.00	146.12	47,000	1,300	170	2,700	2,300	30,000	--	--	
11/20/2000	--		19.15	0.00	148.86	--	--	--	--	--	--	--	--	h
2/18/2001	--		15.35	0.00	152.66	14,000	589	89	600	712	13,000	--	--	
6/7/2001	--		19.09	0.00	148.92	28,000	1,140	68.2	504	530	19,100	--	--	
9/5/2001	--		22.06	0.02	145.93	--	--	--	--	--	--	--	--	j
11/30/2001	--		19.53	0.00	148.48	20,000	405	39.4	545	740	8,260	--	--	
2/20/2002	--		15.99	0.00	152.02	13,000	469	29	434	655	7,240	--	--	
6/20/2002	--		19.31	0.00	148.70	--	--	--	--	--	--	--	--	j,l
9/11/2002	--		21.07	0.03	146.91	--	--	--	--	--	--	--	--	j
11/12/2002	--		20.92	0.02	147.07	--	--	--	--	--	--	--	--	j
1/29/2003	--		16.31	0.04	151.66	--	--	--	--	--	--	--	--	j,n
5/22/2003	--		16.68	0.00	151.33	--	--	--	--	--	--	--	--	j,t
6/24/2003	--		19.76	0.07	148.18	--	--	--	--	--	--	--	--	o
7/28/2003	--		21.04	0.04	146.93	--	--	--	--	--	--	--	--	j
8/12/2003	--		21.41	<0.01	146.60	--	--	--	--	--	--	--	--	o,t
9/12/2003	--		21.10	0.07	146.84	--	--	--	--	--	--	--	--	o
10/3/2003	--		--	0.03	--	--	--	--	--	--	--	--	--	
11/18/2003	P		20.10	<0.01	147.91	12,000	770	<50	320	250	6,100	--	6.6	o,p
12/31/2003	--		--	<0.01	--	--	--	--	--	--	--	--	--	
02/23/2004	--		14.35	0.01	153.67	--	--	--	--	--	--	--	--	
3/18/2004	--		--	0.09	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
RW-1 Cont.														
4/13/2004	--	168.01	--	0.02	--	--	--	--	--	--	--	--	--	
05/04/2004	--		19.58	0.02	148.45	--	--	--	--	--	--	--	--	
6/2/2004	--		--	0.05	--	--	--	--	--	--	--	--	--	
7/2/2004	--		--	0.11	--	--	--	--	--	--	--	--	--	
08/04/2004	--		22.05	0.05	146.00	--	--	--	--	--	--	--	--	
09/22/2004	NP		21.28	0.06	146.78	--	--	--	--	--	--	--	--	
10/26/2004	--		--	0.01	--	--	--	--	--	--	--	--	--	
11/10/2004	--		18.56	0.02	149.47	--	--	--	--	--	--	--	--	
12/27/2004	--		--	0.03	--	--	--	--	--	--	--	--	--	
01/13/2005	--		12.51	0.01	155.51	--	--	--	--	--	--	--	--	
02/15/2005	--		15.24	0.03	152.79	--	--	--	--	--	--	--	--	
03/07/2005	--		11.90	0.02	156.13	--	--	--	--	--	--	--	--	
4/29/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
05/16/2005	--		14.39	0.02	153.64	--	--	--	--	--	--	--	--	j
6/21/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
7/7/2005	--		--	0.06	--	--	--	--	--	--	--	--	--	
08/17/2005	--		19.91	0.03	148.12	--	--	--	--	--	--	--	--	j
9/6/2005	--		--	0.03	--	--	--	--	--	--	--	--	--	
10/4/2005	--		--	0.07	--	--	--	--	--	--	--	--	--	
11/18/2005	--		20.36	0.07	147.71	--	--	--	--	--	--	--	--	b, j
12/30/2005	--		--	0.04	--	--	--	--	--	--	--	--	--	
1/24/2006	--		--	0.01	--	--	--	--	--	--	--	--	--	
02/07/2006	--		12.87	0.01	155.15	--	--	--	--	--	--	--	--	j
3/30/2006	--		--	0.02	--	--	--	--	--	--	--	--	--	
5/19/2006	--		15.87	0.04	152.17	--	--	--	--	--	--	--	--	b
8/23/2006	--		20.50	0.07	147.56	--	--	--	--	--	--	--	--	b, j
11/15/2006	--		20.52	0.07	147.54	--	--	--	--	--	--	--	--	b, j
2/14/2007	--		15.44	0.04	152.60	--	--	--	--	--	--	--	--	b, j
5/22/2007	--		17.78	Sheen	150.23	--	--	--	--	--	--	--	--	j, l
8/15/2007	--		20.80	0.02	147.23	--	--	--	--	--	--	--	--	b, j

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	P/NP	TOC Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
						GRO/ TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
RW-1 Cont.														
11/8/2007	--	168.01	20.32	0.01	147.70	--	--	--	--	--	--	--	--	b, j
2/20/2008	--		14.55	0.02	153.48	--	--	--	--	--	--	--	--	b, j
5/7/2008	--		--	--	--	--	--	--	--	--	--	--	--	e
8/20/2008	--		21.34	0.02	146.69	--	--	--	--	--	--	--	--	b
11/17/2008	P		20.41	0.00	147.60	13,000	120	<20	590	320	120	--	6.47	w
2/25/2009	--		13.40	0.02	154.63	--	--	--	--	--	--	--	--	b
4/8/2009	--		16.45	0.00	151.56	--	--	--	--	--	--	--	--	
5/28/2009	--		17.88	0.01	150.14	--	--	--	--	--	--	--	--	b
6/16/2009	--		19.30	0.01	148.72	--	--	--	--	--	--	--	--	
8/6/2009	--		20.72	0.01	147.30	--	--	--	--	--	--	--	--	b, j
3/4/2010	P		12.33	Sheen	155.68	8,000	20	<2.5	230	140	110	1.24	6.77	
9/2/2010	NP		20.14	0.00	147.87	4,700	18	<2.5	78	46	<2.5	0.66	7.31	
3/15/2011	P		13.03	0.00	154.98	7,000	3.7	<2.5	44	31	6.7	0.79	7.0	
8/17/2011	P		18.60	0.00	149.41	2,800	7.5	<2.5	12	10	8.8	0.43	7.14	
2/6/2012	**P**		**16.81**	**0.00**	**151.20**	**1,300**	**3.1**	**<2.5**	**5.2**	**5.1**	**2.9**	**0.61**	**7.03**	

Symbols & Abbreviations:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = Feet below ground surface
ft MSL = Feet above mean sea level
GRO = Gasoline range organics
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter
SEQ/SEQM= Sequoia Analytical/Sequoia Analytical Morgan Hill (Laboratories)
SPH = Separate phase hydrocarbons
CEL = Calscience Environmental Laboratories

Footnotes:
a = Casing elevations surveyed to the nearest 0.01 ft MSL
b = GWE adjusted assuming a specific gravity of 0.75 for free product (FP)
c = Blind duplicate.
d = A copy of the documentation for this data is included in Appendix C of Alisto report 10-024-10-001
e = Well inaccessible
f = Travel blank
g = EPA Methods 8020/8260 used
h = Unable to sample
i = A copy of the documentation for this data can be found in Blaine Tech Services report 010607-M-3. MTBE data for the January 13, 1993 and April 23, 1993 sampling events has been destroyed. No chromatograms could be located for MTBE data from wells MW-5, MW-6, and MW-7, sampled on October 21, 1993
j = Well not sampled due to presence of SPH and nature of the product
k = Could not purge and sample; waste drum full
l = Value represents the depth to product. Unable to determine depth to water, product disabled the interface probe.
m = Discrete p[ak @ C6-7
n = TPH-g, BTEX, and MTBE analyzed by EPA method 8260 B beginning on 1st quarter 2003 aampling event (1/29/03)
o = Groundwater samples are not collected during FP bailing event
p = Well not included in the monthly FP bailing program
q = Well not sampled in November 2003 due to the presence of a pile of gravel dumped over the well box
r = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose
s = MW-7 TOC elevation raised +0.47 ft during well repair on January 20, 2004
t = Sheen in well
u = Calib. verif. is within method limits but outside contract limits
v = GRO result partly due to individual peak(s) in quantitation range
w = DO meter not working at time of measurement
x = DO measurement suspect
y = Sample dilution was done with headspace in the sample vial. The samples were originally analyzed from VOAs without headspace

Notes:
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12

Values for DO and pH were obtained through field measurements

GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
4/30/1997	--	--	6,900	--	--	--	--	--	
4/30/1997	--	--	7,700	--	--	--	--	--	
8/21/1997	--	--	5,200	--	--	--	--	--	
8/21/1997	--	--	5,700	--	--	--	--	--	
11/5/1997	--	--	8,000	--	--	--	--	--	
11/5/1997	--	--	8,200	--	--	--	--	--	
2/4/1998	--	--	<10000	--	--	--	--	--	
2/4/1998	--	--	<10000	--	--	--	--	--	
5/28/1998	--	--	2,900	--	--	--	--	--	
12/30/1998	--	--	3,600	--	--	--	--	--	
2/2/1999	--	--	3,500	--	--	--	--	--	
5/10/1999	--	--	3,000	--	--	--	--	--	
8/24/1999	--	--	<50	--	--	--	--	--	
11/3/1999	--	--	8,900	--	--	--	--	--	
4/21/2000	--	--	1,300	--	--	--	--	--	
7/31/2000	--	--	2,700	--	--	--	--	--	
11/20/2000	--	--	3,900	--	--	--	--	--	
2/26/2001	--	--	1,890	--	--	--	--	--	
6/7/2001	--	--	2,720	--	--	--	--	--	
12/6/2001	--	--	5,400	--	--	--	--	--	
2/20/2002	--	--	106	--	--	--	--	--	
5/19/2006	<6,000	<400	86	<10	<10	<10	<10	<10	
11/17/2008	<6,000	350	590	<10	<10	27	<10	<10	
3/4/2010	<2,000	<80	<10	<10	<10	<10	<10	<10	
9/2/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
3/15/2011	<2500	<40	16	<5.0	<5.0	<5.0	<5.0	<5.0	
8/17/2011	<500	<8.0	8.3	<1.0	<1.0	<1.0	<1.0	<1.0	
2/6/2012	**<500**	**100**	**10**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	
MW-2									
4/20/1994	--	--	24	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
8/21/1997	--	--	<500	--	--	--	--	--	
11/5/1997	--	--	<2500	--	--	--	--	--	
2/3/1998	--	--	<2500	--	--	--	--	--	
5/28/1998	--	--	900	--	--	--	--	--	
12/30/1998	--	--	<250	--	--	--	--	--	
2/2/1999	--	--	<500	--	--	--	--	--	
5/10/1999	--	--	75	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	2,200	--	--	--	--	--	
3/1/2000	--	--	44	--	--	--	--	--	
4/21/2000	--	--	260	--	--	--	--	--	
7/31/2000	--	--	490	--	--	--	--	--	
11/20/2000	--	--	2,800	--	--	--	--	--	
2/18/2001	--	--	1,010	--	--	--	--	--	
6/7/2001	--	--	567	--	--	--	--	--	
9/5/2001	--	--	1,510	--	--	--	--	--	
11/30/2001	--	--	794	--	--	--	--	--	
2/20/2002	--	--	160	--	--	--	--	--	
6/20/2002	--	--	659	--	--	--	--	--	
9/11/2002	--	--	<5000	--	--	--	--	--	
11/12/2002	--	--	1,900	--	--	--	--	--	
1/29/2003	<4000	<2000	820	<50	<50	<50	<50	<50	
5/22/2003	<10000	<2000	1,000	<50	<50	<50	--	--	
7/28/2003	<20000	<4000	1,700	<100	<100	<100	<100	<100	a
11/18/2003	<5,000	<1,000	500	<25	<25	<25	--	--	
02/23/2004	<25,000	<5,000	790	<120	<120	<120	<120	<120	
05/04/2004	<50,000	<10,000	780	<250	<250	<250	<250	<250	
08/04/2004	<50,000	<10,000	430	<250	<250	<250	<250	<250	
11/10/2004	<5,000	<1,000	310	<25	<25	<25	<25	<25	
02/15/2005	<20,000	<4,000	690	<100	<100	<100	<100	<100	
05/16/2005	<50,000	<10,000	560	<250	<250	<250	<250	<250	
08/17/2005	<20,000	<4,000	480	<100	<100	<100	<100	<100	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2 Cont.									
11/18/2005	<20,000	<4,000	340	<100	<100	<100	<100	<100	b
02/07/2006	<60,000	<4,000	440	<100	<100	<100	160	<100	
5/19/2006	<60,000	<4,000	430	<100	<100	<100	<100	<100	b
8/23/2006	<60,000	<4,000	480	<100	<100	<100	<100	<100	
11/15/2006	<60,000	<4,000	400	<100	<100	<100	<100	<100	
2/14/2007	<60,000	<4,000	810	<100	<100	<100	<100	<100	
5/22/2007	<150,000	<10,000	1,000	<250	<250	<250	<250	<250	
8/15/2007	<30,000	2,400	260	<50	<50	<50	<50	<50	b
11/8/2007	<30,000	2,800	240	<50	<50	<50	<50	<50	
11/17/2008	<6,000	1,800	320	<10	<10	<10	<10	<10	
2/25/2009	<150,000	<5,000	<250	<250	<250	<250	<250	<250	
5/28/2009	<75,000	<2,500	510	<120	<120	<120	<120	<120	
3/4/2010	<1,000	2,600	350	<5.0	<5.0	12	<5.0	<5.0	
9/2/2010	<2,000	<80	470	<10	<10	14	<10	<10	
3/15/2011	<50,000	<800	500	<100	<100	<100	<100	<100	
8/17/2011	<50,000	<800	150	<100	<100	<100	<100	<100	
2/6/2012	**<50,000**	**<800**	**360**	**<100**	**<100**	**<100**	**<100**	**<100**	
MW-3									
7/12/1993	--	--	<5.0	--	--	--	--	--	
10/21/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	28.7	--	--	--	--	--	
8/1/1994	--	--	5.43	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
12/23/1994	--	--	9.8	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
10/30/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	5.1	--	--	--	--	--	
4/19/1996	--	--	<10	--	--	--	--	--	
7/23/1996	--	--	<10	--	--	--	--	--	
11/11/1996	--	--	<50	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
1/21/1997	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
8/21/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<50	--	--	--	--	--	
2/3/1998	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<50	--	--	--	--	--	
2/2/1999	--	--	<5.0	--	--	--	--	--	
3/1/2000	--	--	<0.5	--	--	--	--	--	
2/18/2001	--	--	1	--	--	--	--	--	
2/20/2002	--	--	<0.5	--	--	--	--	--	
1/27/2003	<40	<20	0.76	<50	<50	<50	<50	<50	
02/23/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	u
2/20/2008	<100	<10	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4									
7/12/1993	--	--	<5.0	--	--	--	--	--	
10/21/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	58	--	--	--	--	--	
11/11/1996	--	--	34	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	76	--	--	--	--	--	
5/28/1998	--	--	160	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
2/2/1999	--	--	130	--	--	--	--	--	
3/1/2000	--	--	110	--	--	--	--	--	
2/18/2001	--	--	97.3	--	--	--	--	--	
2/20/2002	--	--	81	--	--	--	--	--	
1/29/2003	<40	<20	66	<0.50	<0.50	<0.50	<0.50	<0.50	
02/23/2004	<100	<20	65	<0.50	<0.50	<0.50	<0.50	<0.50	
02/15/2005	<100	<20	62	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	61	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	36	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	26	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	4.4	34	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	4.1	26	<0.50	<0.50	<0.50	<0.50	<0.50	
2/6/2012	**<250**	**<4.0**	**32**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-5									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	21.2	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
12/23/1994	--	--	7.81	--	--	--	--	--	
8/22/1995	--	--	<130	--	--	--	--	--	
10/30/1995	--	--	<250	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
4/19/1996	--	--	<50	--	--	--	--	--	
7/23/1996	--	--	<10	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
1/21/1997	--	--	<50	--	--	--	--	--	
4/29/1997	--	--	<50	--	--	--	--	--	
8/21/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<10	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
2/3/1998	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
2/2/1999	--	--	9.1	--	--	--	--	--	
3/1/2000	--	--	2.9	--	--	--	--	--	
2/18/2001	--	--	5.67	--	--	--	--	--	
2/20/2002	--	--	55.6	--	--	--	--	--	
11/12/2002	--	--	210	--	--	--	--	--	
1/29/2003	<400	<200	82	<5.0	<5.0	<5.0	<5.0	<5.0	
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<2000	<400	120	<10	<10	<10	<10	<10	
11/18/2003	--	--	--	--	--	--	--	--	Well inaccessible
02/23/2004	<5,000	<1,000	100	<25	<25	<25	38	<25	
05/04/2004	<5,000	<1,000	42	<25	<25	<25	<25	<25	
08/04/2004	<5,000	<1,000	390	<25	<25	<25	<25	<25	
11/10/2004	<1,000	<200	530	<5.0	<5.0	5.5	<5.0	<5.0	
02/15/2005	<1,000	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	
05/16/2005	<1,000	<200	370	<5.0	<5.0	<5.0	<5.0	<5.0	
08/17/2005	<1,000	<200	51	<5.0	<5.0	<5.0	<5.0	<5.0	
11/18/2005	<1,000	<200	340	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	200	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<3,000	<200	44	<5.0	<5.0	<5.0	<5.0	<5.0	b
8/23/2006	<3,000	<200	230	<5.0	<5.0	<5.0	<5.0	<5.0	
11/15/2006	<1,500	<100	490	<2.5	<2.5	4.2	<2.5	<2.5	
2/14/2007	<1,500	<100	420	<2.5	<2.5	3.6	<2.5	<2.5	
5/22/2007	<1,500	<100	26	<2.5	<2.5	<2.5	<2.5	<2.5	
8/15/2007	<6,000	<400	280	<10	<10	<10	<10	<10	
11/8/2007	<1,500	310	270	<2.5	<2.5	<2.5	<2.5	<2.5	
2/20/2008	<1,000	<100	43	<5.0	<5.0	<5.0	<5.0	<5.0	
5/7/2008	<6,000	<200	30	<10	<10	<10	<10	<10	
8/20/2008	<1,200	270	260	<2.0	<2.0	3.0	<2.0	<2.0	
2/25/2009	<300	110	68	<0.50	<0.50	0.62	<0.50	<0.50	
5/28/2009	<600	<20	11	<1.0	<1.0	<1.0	<1.0	<1.0	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
8/6/2009	<3,000	340	190	<5.0	<5.0	<5.0	<5.0	<5.0	
3/4/2010	<100	38	15	<0.50	<0.50	<0.50	<0.50	<0.50	
9/2/2010	<100	<4.0	13	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	5.9	<0.50	<0.50	<0.50	<0.50	<0.50	
8/17/2011	<2,500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2/6/2012	**<2,500**	**<40**	**9.8**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	
MW-6									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	17.4	--	--	--	--	--	
8/1/1994	--	--	8.66	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	9.9	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	85	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
05/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
02/07/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/14/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/20/2008	<100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/25/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/4/2010	<100	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/15/2011	<250	<4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7									
7/12/1993	--	--	<5.0	--	--	--	--	--	
1/21/1994	--	--	<5.0	--	--	--	--	--	
4/20/1994	--	--	<5.0	--	--	--	--	--	
8/1/1994	--	--	<5.0	--	--	--	--	--	
8/22/1995	--	--	<5.0	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7 Cont.									
1/25/1996	--	--	<5.0	--	--	--	--	--	
11/11/1996	--	--	<10	--	--	--	--	--	
4/29/1997	--	--	<10	--	--	--	--	--	
11/5/1997	--	--	<10	--	--	--	--	--	
5/28/1998	--	--	<10	--	--	--	--	--	
02/07/2006	<3,000	<200	270	<5.0	<5.0	<5.0	<5.0	<5.0	
2/14/2007	<3,000	<200	740	<5.0	<5.0	9.6	<5.0	<5.0	
2/20/2008	<100	13	700	<0.50	<0.50	12	0.60	<0.50	
2/25/2009	<12,000	<400	540	<20	<20	<20	<20	<20	
3/4/2010	<100	4.0	920	<0.50	<0.50	17	0.74	<0.50	
3/15/2011	<250	130	990	<0.50	<0.50	17	0.81	<0.50	
2/6/2012	**<250**	**<4.0**	**22**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-8									
4/20/1994	--	--	632	--	--	--	--	--	
8/21/1997	--	--	<1000	--	--	--	--	--	
11/5/1997	--	--	<1000	--	--	--	--	--	
2/4/1998	--	--	<2500	--	--	--	--	--	
12/30/1998	--	--	150	--	--	--	--	--	
2/2/1999	--	--	<500	--	--	--	--	--	
5/10/1999	--	--	<25	--	--	--	--	--	
8/24/1999	--	--	150	--	--	--	--	--	
11/3/1999	--	--	750	--	--	--	--	--	
3/1/2000	--	--	120	--	--	--	--	--	
11/20/2000	--	--	5,700	--	--	--	--	--	
2/20/2002	--	--	80.4	--	--	--	--	--	
6/20/2002	--	--	2,520	--	--	--	--	--	
9/11/2002	--	--	1,200	--	--	--	--	--	
11/12/2002	--	--	31	--	--	--	--	--	
1/29/2003	<4000	<2000	<500	<50	<50	<50	<50	<50	
5/22/2003	<5000	<1000	--	<25	<25	<25	--	--	
6/24/2003	--	--	46	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-8 Cont.									
7/28/2003	<20000	<4000	2,100	<100	<100	<100	<100	<100	
11/18/2003	<2,000	<400	1,700	<10	<10	20	--	--	a,b
02/23/2004	<10,000	<2,000	110	<50	<50	<50	<50	<50	
05/04/2004	<5,000	<1,000	2,000	<25	<25	33	<25	<25	
11/10/2004	<5,000	<1,000	74	<25	<25	<25	<25	<25	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<10,000	<2,000	140	<50	<50	<50	<50	<50	b
02/07/2006	<3,000	<200	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<15,000	<1,000	82	<25	<25	<25	<25	<25	
11/15/2006	<15,000	<1,000	110	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	82	<25	<25	<25	<25	<25	
5/22/2007	<6,000	<400	11	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	28	<10	<10	<10	<10	<10	
11/8/2007	<15,000	<1,000	27	<25	<25	<25	<25	<25	
2/25/2009	<6,000	<200	35	<10	<10	<10	<10	<10	
5/28/2009	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
3/4/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
9/2/2010	<1,000	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
3/15/2011	<1,200	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
8/17/2011	<2,500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2/6/2012	**2,900**	**<40**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	
MW-9									
7/12/1993	--	--	20.8	--	--	--	--	--	
4/20/1994	--	--	740	--	--	--	--	--	
4/20/1994	--	--	768	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	
8/21/1997	--	--	<500	--	--	--	--	--	
11/5/1997	--	--	<500	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
2/3/1998	--	--	<1000	--	--	--	--	--	
5/28/1998	--	--	<500	--	--	--	--	--	
5/28/1998	--	--	<250	--	--	--	--	--	
12/30/1998	--	--	180	--	--	--	--	--	
2/2/1999	--	--	<50	--	--	--	--	--	
5/10/1999	--	--	72	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	<5.0	--	--	--	--	--	
3/1/2000	--	--	63	--	--	--	--	--	
4/21/2000	--	--	<5.0	--	--	--	--	--	
7/31/2000	--	--	1,600	--	--	--	--	--	
11/20/2000	--	--	3,900	--	--	--	--	--	
2/18/2001	--	--	121	--	--	--	--	--	
6/7/2001	--	--	223	--	--	--	--	--	
9/5/2001	--	--	310	--	--	--	--	--	
11/30/2001	--	--	285	--	--	--	--	--	
2/20/2002	--	--	293	--	--	--	--	--	
6/20/2002	--	--	208	--	--	--	--	--	
9/11/2002	--	--	<2500	--	--	--	--	--	
11/12/2002	--	--	21	--	--	--	--	--	
5/22/2003	<10000	<2000	<50	<50	<50	<50	--	--	
7/28/2003	<100000	<20000	<500	<500	<500	<500	<500	<500	
11/18/2003	<2,000	<400	45	<10	<10	<10	--	--	a,b
02/23/2004	<50,000	<10,000	<250	<250	<250	<250	<250	<250	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
02/15/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
05/16/2005	<2,000	<400	<10	<10	<10	<10	<10	<10	
08/17/2005	<2,500	<500	<12	<12	<12	<12	<12	<12	
11/18/2005	<1,000	<200	19	<5.0	<5.0	<5.0	<5.0	<5.0	b
02/07/2006	<3,000	<200	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	
8/23/2006	<30,000	<2,000	<50	<50	<50	<50	<50	<50	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
11/15/2006	<15,000	<1,000	26	<25	<25	<25	<25	<25	
2/14/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
5/22/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
8/15/2007	<1,500	<100	27	<2.5	<2.5	<2.5	<2.5	<2.5	b
11/8/2007	<3,000	<200	52	<5.0	<5.0	<5.0	<5.0	<5.0	
11/17/2008	<1,500	<50	33	<2.5	<2.5	<2.5	<2.5	<2.5	
2/25/2009	<6,000	<200	<10	<10	<10	<10	<10	<10	
5/28/2009	<6,000	<200	<10	<10	<10	<10	<10	<10	
8/6/2009	<1,200	<40	18	<2.0	<2.0	<2.0	<2.0	<2.0	
3/4/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
9/2/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
3/15/2011	<1,200	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
8/17/2011	<1,300	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
2/6/2012	**<1,300**	**<20**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	
MW-10									
4/20/1994	--	--	1,577	--	--	--	--	--	
4/30/1997	--	--	<5000	--	--	--	--	--	
8/21/1997	--	--	<5000	--	--	--	--	--	
11/5/1997	--	--	<500	--	--	--	--	--	
2/4/1998	--	--	<1000	--	--	--	--	--	
5/28/1998	--	--	<1000	--	--	--	--	--	
12/30/1998	--	--	<50	--	--	--	--	--	
2/2/1999	--	--	860	--	--	--	--	--	
5/10/1999	--	--	220	--	--	--	--	--	
8/24/1999	--	--	<250	--	--	--	--	--	
11/3/1999	--	--	31	--	--	--	--	--	
3/1/2000	--	--	4,400	--	--	--	--	--	
4/21/2000	--	--	2,400	--	--	--	--	--	
11/20/2000	--	--	450	--	--	--	--	--	
2/18/2001	--	--	4,180	--	--	--	--	--	
6/7/2001	--	--	635	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-10 Cont.									
9/5/2001	--	--	189	--	--	--	--	--	
11/30/2001	--	--	325	--	--	--	--	--	
2/20/2002	--	--	1,090	--	--	--	--	--	
6/20/2002	--	--	224	--	--	--	--	--	
9/11/2002	--	--	<250	--	--	--	--	--	
5/22/2003	<10000	<2000	300	<50	<50	<50	--	--	
11/18/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	b
02/23/2004	<20,000	<4,000	180	<100	<100	<100	<100	<100	
05/04/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/10/2004	<5,000	<1,000	230	<25	<25	<25	<25	<25	b
02/15/2005	<10,000	<2,000	77	<50	<50	<50	<50	<50	
05/16/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
08/17/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/18/2005	<2,500	<500	16	<12	<12	<12	<12	<12	b
02/07/2006	<15,000	<1,000	73	<25	<25	<25	<25	<25	
5/19/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	b
8/23/2006	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/15/2006	<6,000	<400	54	<10	<10	<10	<10	<10	
2/14/2007	<6,000	<400	120	<10	<10	<10	<10	<25	
5/22/2007	<6,000	<400	15	<10	<10	<10	<10	<10	
8/15/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	
11/8/2007	<3,000	<200	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	
5/7/2008	<12,000	<400	<20	<20	<20	<20	<20	<20	
11/17/2008	<12,000	<400	23	<20	<20	<20	<20	<20	
2/25/2009	<6,000	280	170	<10	<10	<10	<10	<10	
5/28/2009	<1,500	110	65	<2.5	<2.5	<2.5	<2.5	<2.5	
8/6/2009	<15,000	<500	<25	<25	<25	<25	<25	<25	
3/4/2010	<500	160	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
8/17/2011	<2,500	<40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
2/6/2012	**<2,500**	**<40**	**<5.0**	**<5.0**	**<4.0**	**<5.0**	**<5.0**	**<5.0**	
QC-2									

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
QC-2 Cont.									
8/22/1995	--	--	<5.0	--	--	--	--	--	
10/30/1995	--	--	<5.0	--	--	--	--	--	
1/25/1996	--	--	<5.0	--	--	--	--	--	
4/19/1996	--	--	<10	--	--	--	--	--	
RW-1									
8/1/1994	--	--	1,200	--	--	--	--	--	
12/23/1994	--	--	616	--	--	--	--	--	
8/22/1995	--	--	<25	--	--	--	--	--	
8/22/1995	--	--	<25	--	--	--	--	--	
10/30/1995	--	--	630	--	--	--	--	--	
10/30/1995	--	--	650	--	--	--	--	--	
1/25/1996	--	--	5,300	--	--	--	--	--	
4/19/1996	--	--	14,000	--	--	--	--	--	
4/19/1996	--	--	15,000	--	--	--	--	--	
7/23/1996	--	--	35,000	--	--	--	--	--	
7/23/1996	--	--	36,000	--	--	--	--	--	
11/11/1996	--	--	22,000	--	--	--	--	--	
11/11/1996	--	--	22,000	--	--	--	--	--	
1/21/1997	--	--	1,500	--	--	--	--	--	
1/21/1997	--	--	1,500	--	--	--	--	--	
4/29/1997	--	--	46,000	--	--	--	--	--	
8/21/1997	--	--	9,500	--	--	--	--	--	
11/5/1997	--	--	56,000	--	--	--	--	--	
2/3/1998	--	--	3,200	--	--	--	--	--	
5/28/1998	--	--	2,700	--	--	--	--	--	
2/2/1999	--	--	51000/78000	--	--	--	--	--	
5/10/1999	--	--	61,000	--	--	--	--	--	
8/24/1999	--	--	37,000	--	--	--	--	--	
11/3/1999	--	--	54,000	--	--	--	--	--	
3/1/2000	--	--	13,000	--	--	--	--	--	
4/21/2000	--	--	39,000	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
RW-1 Cont.									
7/31/2000	--	--	30,000	--	--	--	--	--	
2/18/2001	--	--	13,000	--	--	--	--	--	
6/7/2001	--	--	19,100	--	--	--	--	--	
11/30/2001	--	--	8,260	--	--	--	--	--	
2/20/2002	--	--	7,240	--	--	--	--	--	
11/18/2003	<10,000	11,000	6,100	<50	<50	160	--	--	a,b
11/17/2008	<12,000	<400	120	<20	<20	<20	<20	<20	
3/4/2010	<500	45	110	<2.5	<2.5	5.7	<2.5	<2.5	
9/2/2010	<500	<20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
3/15/2011	<1,200	<20	6.7	<2.5	<2.5	<2.5	<2.5	<2.5	
8/17/2011	<1,300	<20	8.8	<2.5	<2.5	<2.5	<2.5	<2.5	
2/6/2012	**<1,300**	**<20**	**2.9**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	

Symbols & Abbreviations:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
1,2-DCA = 1,2-Dichloroethane
DIPE = Diisopropyl ether
EDB = 1,2-Dibromoethane
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
µg/L = Micrograms per Liter

Footnotes:
a = The result for TBA was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria
b = The continuing calibration verification for ethanol was outside of client contractual acceptance limits. However, it was within method acceptance limits. The data should still be useful for its intended purpose

Notes:
All volatile organic compounds analyzed using EPA Method 8260B

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

Table 3. Historical Groundwater Gradient - Direction and Magnitude

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
5/19/2006	South	0.003 to 0.005
8/23/2006	Southwest	0.01
11/15/2006	South	0.004
2/14/2007	Southeast	0.01
5/22/2007	South	0.005
8/15/2007	South-Southwest	0.008
11/8/2007	Southwest	0.006
2/20/2008	Southeast	0.008
5/7/2008	South-Southwest	0.003
8/20/2008	South-Southwest	0.007
11/17/2008	South-Southwest	0.005
2/25/2009	Southeast	0.01
5/28/2009	South	0.004
8/6/2009	South-Southwest	0.005
3/4/2010	East-Southeast	0.02
9/2/2010	Southwest	0.01
3/15/2011	Southeast	0.01
8/17/2011	Southwest	0.003
2/6/2012	**Southeast**	**0.005**

Notes:
The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

Table 4. Bio-Degradation Parameters

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
MW-1													
11/17/2008	--	<0.1	2.750	3.400	<1	<0.050	--	65	4.830	426	126	6.60	DO meter not working
3/4/2010	0.54	--	--	--	--	--	--	--	--	--	-106	6.96	
9/2/2010	0.52	--	--	--	--	--	--	--	--	--	186	7.01	
3/15/2011	0.85	--	--	--	--	--	--	--	--	--	-95	7.0	
8/17/2011	0.71	--	--	--	--	--	--	--	--	--	-71	7.39	
2/6/2012	0.78	--	--	--	--	--	--	--	--	--	33	7.34	
MW-2													
11/17/2008	--	<0.1	6.380	7.300	1.1	<0.050	--	98.5	5.350	838	111	6.46	DO meter not working
2/25/2009	2.11	<0.1	5.380	8.600	5.1	<0.050	--	294	3.480	846	-8	6.50	
5/28/2009	0.16	<0.1	5.340	2.400	8.7	<0.050	--	209	1.160	782	-75	6.59	BV (S2-, FE); DO measurement suspect
3/4/2010	1.28	--	--	--	--	--	--	--	--	--	-92	6.80	
9/2/2010	0.70	--	--	--	--	--	--	--	--	--	230	6.90	
3/15/2011	0.69	--	--	--	--	--	--	--	--	--	-94	6.8	
8/17/2011	0.50	--	--	--	--	--	--	--	--	--	-53	7.07	
2/6/2012	0.91	--	--	--	--	--	--	--	--	--	-9	7.08	
MW-3													
2/25/2009	3.45	1.6	0.0185	<0.100	29	<0.050	--	17.4	<0.0010	146	78	7.09	
3/4/2010	3.16	--	--	--	--	--	--	--	--	--	-10	7.06	
3/15/2011	3.14	--	--	--	--	--	--	--	--	--	75	7.2	
MW-4													
2/25/2009	2.80	3.8	<0.0050	<0.100	42	<0.050	--	44.1	<0.0010	244	-23	6.83	
3/4/2010	0.63	--	--	--	--	--	--	--	--	--	74	6.80	
3/15/2011	1.05	--	--	--	--	--	--	--	--	--	28	6.9	
2/6/2012	1.06	--	--	--	--	--	--	--	--	--	189	7.28	
MW-5													
8/20/2008	5.57	0.11	6.310	<0.10	12	<0.050	--	1,660	0.0355	698	170	6.86	BV (S2-, FE)
2/25/2009	4.38	0.22	2.930	<0.100	7.7	<0.050	--	17.6	0.00133	352	23	6.65	BV (S2-, FE)
5/28/2009	0.04	<0.1	4.450	0.840	2.9	<0.050	--	145	0.128	898	-89	6.82	BV (S2-, FE); DO measurement suspect

Table 4. Bio-Degradation Parameters

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
MW-5 Cont.													
8/6/2009	0.06	<0.1	5.820	<0.100	10	<0.050	--	139	0.00312	694	--	7.27	DO measurement suspect
3/4/2010	0.66	--	--	--	--	--	--	--	--	--	-69	6.87	
9/2/2010	0.75	--	--	--	--	--	--	--	--	--	190	6.75	
3/15/2011	0.85	--	--	--	--	--	--	--	--	--	-50	6.8	
8/17/2011	0.61	--	--	--	--	--	--	--	--	--	-29	7.11	
2/6/2012	1.31	--	--	--	--	--	--	--	--	--	35	7.21	
MW-6													
2/25/2009	2.39	2.2	0.0176	<0.100	55	<0.050	--	23.4	<0.0010	196	16	7.09	
3/4/2010	0.88	--	--	--	--	--	--	--	--	--	4	7.01	
3/15/2011	1.43	--	--	--	--	--	--	--	--	--	74	7.1	
MW-7													
2/25/2009	4.28	1.2	0.0167	<0.100	16	<0.050	--	36	<0.0010	280	90	6.87	BV (S2-, FE)
3/4/2010	3.30	--	--	--	--	--	--	--	--	--	-36	7.02	
3/15/2011	4.05	--	--	--	--	--	--	--	--	--	8	7.0	
2/6/2012	1.58	--	--	--	--	--	--	--	--	--	178	7.44	
MW-8													
2/25/2009	2.18	0.1	4.140	3.000	4.7	<0.050	--	198	1.890	702	19	6.98	
5/28/2009	0.06	<0.1	3.040	1.500	2.2	<0.050	--	186	1.750	664	-41	6.78	BV (S2-, FE); DO measurement suspect
3/4/2010	0.82	--	--	--	--	--	--	--	--	--	63	6.72	
9/2/2010	0.56	--	--	--	--	--	--	--	--	--	199	6.75	
3/15/2011	0.90	--	--	--	--	--	--	--	--	--	-56	6.6	
8/17/2011	0.61	--	--	--	--	--	--	--	--	--	-30	7.08	
2/6/2012	0.91	--	--	--	--	--	--	--	--	--	22	7.17	
MW-9													
11/17/2008	--	0.18	3.190	3.400	12	<0.050	--	19.5	1.290	480	139	6.64	DO meter not working
2/25/2009	2.27	<0.1	3.060	1.900	1.9	<0.050	--	156	1.960	554	-23	6.69	
5/28/2009	0.07	<0.1	2.730	0.900	3.8	<0.050	--	169	0.826	522	-73	6.83	BV (S2-, FE); DO measurement suspect
8/6/2009	0.00	0.39	2.680	2.500	15	<0.050	--	--	0.573	478	--	7.26	DO measurement suspect

Table 4. Bio-Degradation Parameters

Former BP Station #11132, 3201 35th Ave, Oakland, CA

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
MW-9 Cont.													
3/4/2010	0.62	--	--	--	--	--	--	--	--	--	-83	6.84	
9/2/2010	0.46	--	--	--	--	--	--	--	--	--	214	6.85	
3/15/2011	1.07	--	--	--	--	--	--	--	--	--	-69	6.8	
2/6/2012	1.43	--	--	--	--	--	--	--	--	--	113	7.21	
MW-10													
11/17/2008	--	<0.1	4.890	4.700	1.7	<0.050	--	283	1.720	686	160	6.54	DO meter not working
2/25/2009	4.06	0.29	4.530	3.700	13	<0.050	--	182	0.117	572	-33	6.68	BV (S2-, FE)
5/28/2009	0.03	<0.1	4.380	4.000	6.9	<0.050	--	657	0.618	634	-40	6.69	BV (S2-, FE); DO measurement suspect
8/6/2009	0.06	<0.1	4.770	0.130	1.7	<0.050	--	81.4	0.587	728	--	7.23	DO measurement suspect
3/4/2010	0.56	--	--	--	--	--	--	--	--	--	-115	6.81	
8/17/2011	0.44	--	--	--	--	--	--	--	--	--	-72	7.18	
2/6/2012	0.71	--	--	--	--	--	--	--	--	--	-19	7.21	
QC-2													
RW-1													
11/17/2008	--	<0.1	0.581	0.990	<1	<0.050	--	35.8	3.780	94	108	6.47	DO meter not working
3/4/2010	1.24	--	--	--	--	--	--	--	--	--	-116	6.77	
9/2/2010	0.66	--	--	--	--	--	--	--	--	--	131	7.31	
3/15/2011	0.79	--	--	--	--	--	--	--	--	--	-41	7.0	
8/17/2011	0.43	--	--	--	--	--	--	--	--	--	-80	7.14	
2/6/2012	0.61	--	--	--	--	--	--	--	--	--	101	7.03	

Symbols & Abbreviations:
< = Not detected at or above specified laboratory reporting limit
ORP = Oxygen reduction potential
DO = Dissolved oxygen
CO2 = Carbon dioxide
S2- = Soluble Sulfide
mV = Millivolts
µg/L = Micrograms per liter
mg/L = Milligrams per liter
BV = Sample received after holding time expired