Roya Kambin
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6270
RKambin@Chevron.com

December 11, 2012

RECEIVED
By Alameda County Environmental Health at 5:41 pm, Dec 13, 2012

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former 76 Service Station No. 351644
66 MacArthur Boulevard
Oakland, California
ACHCS Case NO 0455

I accept the **Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report and Third Quarter 2012 Ozone Injection System O&M Report**.

I agree with the conclusions and recommendations presented in this document. The information included is accurate to the best of my knowledge, and appears to meet local agency and Regional Board guidelines. This **Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report and Third Quarter 2012 Ozone Injection System O&M Report** was prepared by Conestoga Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Roya Kambin
Project Manager

Attachment: **Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report and Third Quarter 2012 Ozone Injection System O&M Report**

CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
http://www.craworld.com

December 11, 2012 Reference No. 060727

Mr. Keith Nowell
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report
and Third Quarter 2012 Ozone Injection System O&M Report
76 Products Service Station 1871 (Union Oil 351644)
66 MacArthur Boulevard
Formerly 96 MacArthur Boulevard
Oakland, California
ACHCS Case No. 0455

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), Conestoga-Rovers & Associates (CRA) is submitting the *Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report and Third Quarter 2012 Ozone Injection System O&M Report* for the site referenced above (Figure 1). Groundwater monitoring and sampling was performed by TRC Solutions (TRC) of Irvine, California and their *Field Monitoring Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Laboratory analyses were performed by BC Laboratories of Bakersfield, California and their report is included as Attachment B. Historical groundwater monitoring and sampling data is included as Attachment C.

Ozone system monitoring was performed by Environ Strategy Consultants, Inc. (ESC) and their report is included as Attachment D.

RESULTS OF SECOND SEMI-ANNUAL 2012 EVENT

On October 16, 2012, TRC monitored and sampled the site wells per the established schedule. Results of the current monitoring event indicate the following:

- Groundwater Flow Direction Southwest
- Hydraulic Gradient 0.05
- Approximate Depth to Groundwater 7.5 to 17 feet below grade

Results of the current sampling event are presented below in Table A.

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*	*MTBE (µg/L)*	*TBA (µg/L)*
ESLs	***100***	***1***	***40***	***30***	***20***	***5***	***12***
MW-1	**290**	<1.0	<1.0	7.5	<2.0	<1.0	**30**
MW-6	<50	<0.50	<0.50	<0.50	<1.0	1.1	<10
MW-7	<50	<0.50	<0.50	<0.50	<1.0	2.6	<10
MW-8	<50	<0.50	<0.50	<0.50	<1.0	0.74	<10
MW-9	70	<0.50	<0.50	<0.50	<1.0	**72**	**13**
MW-10	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10
MW-11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10

µg/L Micrograms per Liter
ESLs Environmental Screening Levels from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, California Regional Water Quality Control Board-San Francisco Bay Region, Interim Final November 2007, Revised May 2008 (Table A – Groundwater is a potential source of drinking water source)
Bold Exceeds ESL

REMEDIATION SYSTEM OPERATION

The KVA ozone injection system operated with 100 percent up-time during the report period.

CONCLUSIONS

The results of ongoing groundwater monitoring and sampling indicate the following:

- Dissolved total petroleum hydrocarbons as gasoline (TPHg) is only detected above ESLs in onsite well MW-1.
- TPHg and benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations are two to three orders of magnitude less than historical maximum concentrations.
- Historically MW-1 had the highest MTBE concentrations detected. However, since 2008 the highest MTBE concentrations have been detected in offsite well MW-9, which had a concentration of 72 µg/L.

- MTBE concentrations are below the laboratory detection limit and/or drinking water ESL in all other wells and have decreased over time in other wells.
- Dissolved tertiary butyl alcohol was detected in wells MW-1 and MW-9.

RECOMMENDATIONS

CRA submitted a *Closure Request* dated July 16, 2012 and an *Addendum to Case Closure Request* dated November 1, 2012. The site meets the low-threat case closure criteria under the State Water Resources Control Board (SWRCB) adopted Resolution No. 2012-0016, the *Low-Threat Underground Storage Tank (UST) Case Closure Policy* on August 17, 2012.

Since the site meets low-threat case closure criteria, CRA proposes the shutdown of the ozone system and cease groundwater monitoring and sampling activities. CRA will contact the ACEH to discuss the next steps.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
Gettler Ryan, Inc. will monitor and sample site wells per the established schedule, unless ACEH approves discontinuation of the groundwater monitoring and sampling activities.

CONESTOGA-ROVERS & ASSOCIATES

December 11, 2013 Reference No. 060727

Please contact Nathan Lee at (510) 420-3333 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

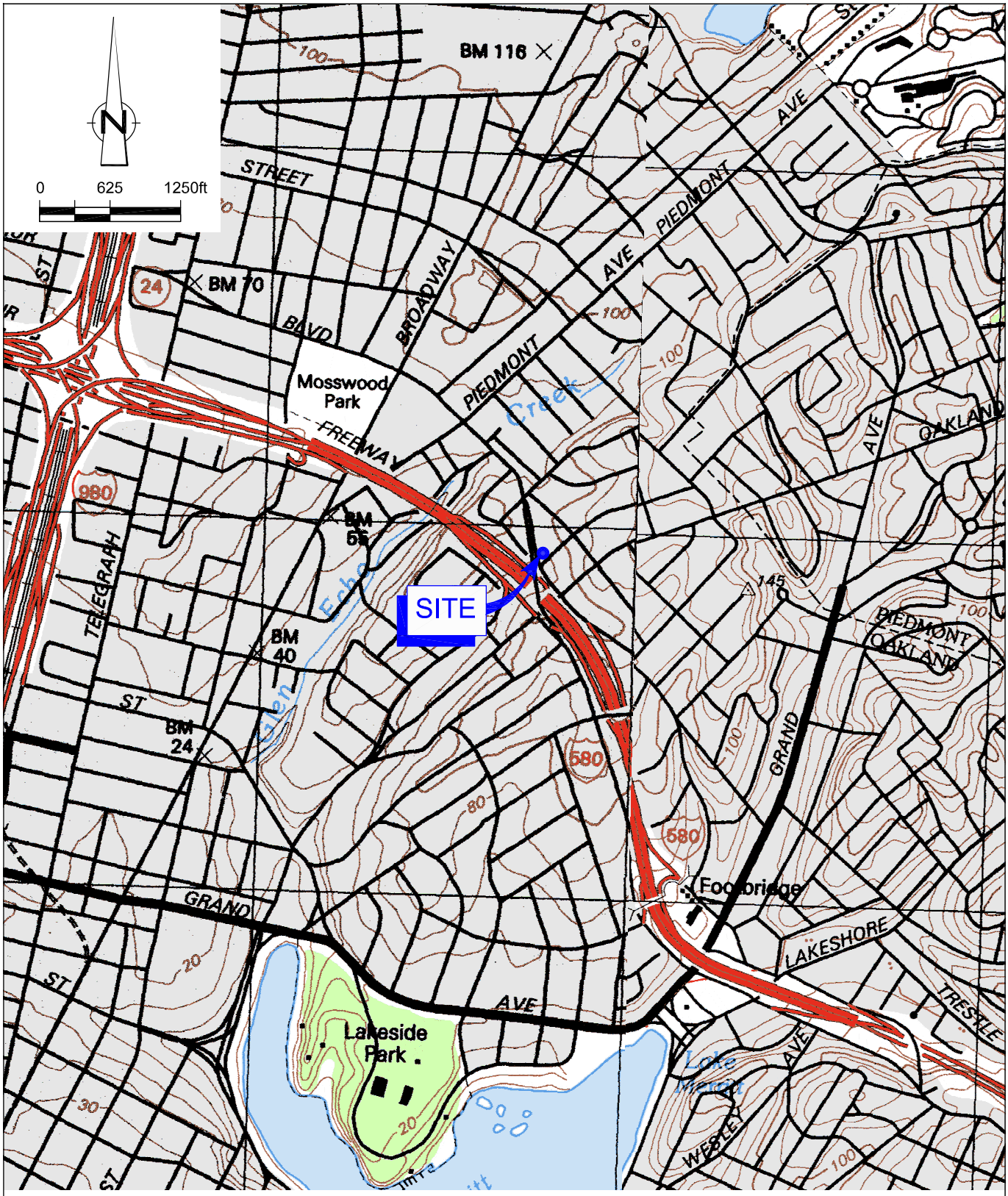
Celina Hernandez, PG 8931

CH/cw/8
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Map
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data
Attachment D	Ozone Injection System O & M Report

cc: Ms. Roya Kambin, Union Oil *(electronic copy)*
Ms. Cherie McClaulou, RWQCB-SF
Ms. Barbara Bee Allen

FIGURES

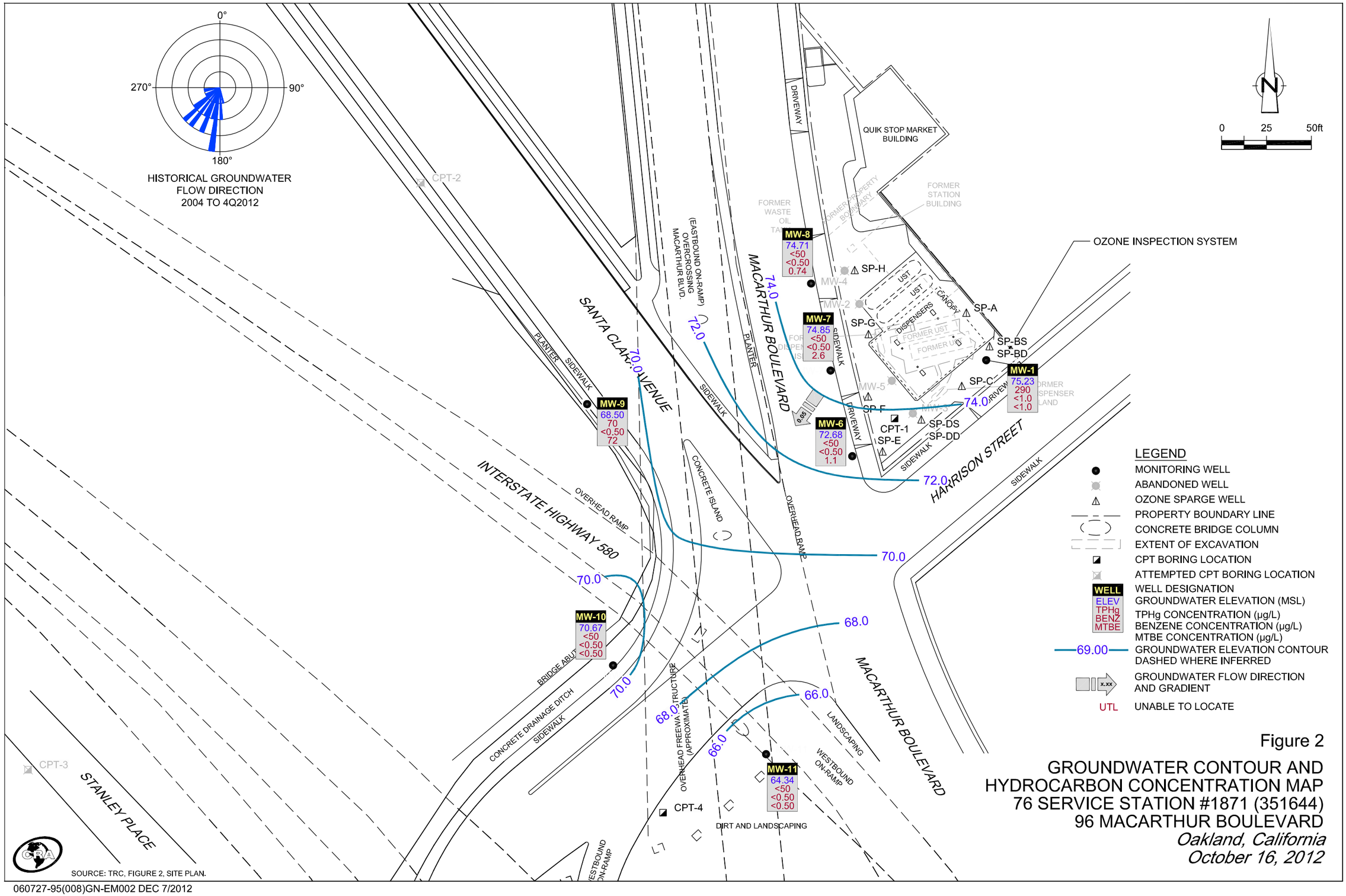


SOURCE: USGS QUADRANGLE MAPS: OAKLAND WEST, CA. & OAKLAND EAST, CA.

Figure 1

VICINITY MAP
76 SERVICE STATION #351644
96 MACARTHUR BOULEVARD
Oakland, California

060727-95(008)GN-EM001 NOV 8/2012



SOURCE: TRC, FIGURE 2, SITE PLAN.

Figure 2

GROUNDWATER CONTOUR AND HYDROCARBON CONCENTRATION MAP
76 SERVICE STATION #1871 (351644)
96 MACARTHUR BOULEVARD
Oakland, California
October 16, 2012

060727-95(008)GN-EM002 DEC 7/2012

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNION OIL #1871
96 MACARTHUR BLVD.
OAKLAND, CALIFORNIA

					HYDROCARBONS	PRIMARY VOCS									GENERAL CHEMISTRY			
Location	Date	TOC	DTW	GWE	TPH Gasoline	B	T	E	X	MTBE by SW8260	TBA	EDB	1,2-DCA	Ethanol	Ferrous iron	Methane	Nitrate (as N)	Sulfate
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L
MW-1	11/10/2011	90.21	14.43	75.78	410	0.72	<0.50	7.1	1.4	2.4	60	<0.50	<0.50	<250	360	0.032	1.2	19
MW-1	04/12/2012	90.21	12.78	77.43	2,700	4.7	<0.50	130	7.5	14	170	<0.50	<0.50	<250	<100	1.5	1.9	27
MW-1	**10/16/2012**	**90.21**	**14.98**	**75.23**	**290**	**<1.0**	**<1.0**	**7.5**	**<2.0**	**<1.0**	**30**	**<1.0**	**<1.0**	**<500**	**120**	**0.0018**	**0.44**	**29**
MW-6	11/10/2011	82.51	9.61	72.90	<50	<0.50	<0.50	<0.50	<1.0	2.2	<10	<0.50	<0.50	<250	<100	<0.0010	<0.44	24
MW-6	04/12/2012	82.51	8.08	74.43	<50	<0.50	<0.50	<0.50	<1.0	0.96	<10	<0.50	<0.50	<250	<100	0.0013	<0.44	21
MW-6	**10/16/2012**	**82.51**	**9.83**	**72.68**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**1.1**	**<10**	**<0.50**	**<0.50**	**<250**	**<100**	**0.0097**	**<0.44**	**22**
MW-7	11/10/2011	83.80	9.38	74.42	<50	<0.50	<0.50	<0.50	<1.0	2.9	<10	<0.50	<0.50	<250	140	0.0041	<0.44	9.0
MW-7	04/12/2012	83.80	7.44	76.36	<50	<0.50	<0.50	<0.50	<1.0	4.7	<10	<0.50	<0.50	<250	<100	0.0038	<0.44	16
MW-7	**10/16/2012**	**83.80**	**8.95**	**74.85**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.6**	**<10**	**<0.50**	**<0.50**	**<250**	**120**	**0.0019**	**<0.44**	**15**
MW-8	11/10/2011	84.86	9.94	74.92	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<250	<200	<0.0010	3.0	54
MW-8	04/12/2012	84.86	8.42	76.44	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<0.50	<0.50	<250	<100	0.0014	5.0	54
MW-8	**10/16/2012**	**84.86**	**10.15**	**74.71**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**0.74**	**<10**	**<0.50**	**<0.50**	**<250**	**<100**	**<0.0010**	**3.2**	**55**
MW-9	11/10/2011	85.18	15.98	69.20	51	<0.50	<0.50	<0.50	<1.0	63	<10	<0.50	<0.50	<250	270	<0.0010	1.3	30
MW-9	04/12/2012[1]	85.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	**10/16/2012**	**85.18**	**16.68**	**68.50**	**70**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**72**	**13**	**<0.50**	**<0.50**	**<250**	**150**	**<0.0010**	**0.62**	**40**
MW-10	11/10/2011	78.18	7.01	71.17	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<250	<100	<0.0010	26	24
MW-10	04/12/2012	78.18	6.02	72.16	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<250	<100	<0.0010	19	18
MW-10	**10/16/2012**	**78.18**	**7.51**	**70.67**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<250**	**<100**	**<0.0010**	**15**	**29**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNION OIL #1871
96 MACARTHUR BLVD.
OAKLAND, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*									*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*TPH Gasoline*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*EDB*	*1,2-DCA*	*Ethanol*	*Ferrous iron*	*Methane*	*Nitrate (as N)*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*mg/L*	*mg/L*
MW-11	11/10/2011	80.44	14.49	65.95	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<250	<100	<0.0010	5.1	57
MW-11	04/12/2012	80.44	14.60	65.84	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<250	<100	<0.0010	<2.2	69
MW-11	**10/16/2012**	**80.44**	**16.10**	**64.34**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<250**	**<100**	**0.0014**	**4.4**	**53**

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per liter

mg/L = Milligrams per liter

TPH - Total petroleum hydrocarbons

VOCS = Volatile organic compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes (Total)

MTBE = Methyl tert butyl ether

TBA = Tert-butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-butyl ethyl ether

TAME = Tert-amyl methyl ether

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNION OIL #1871
96 MACARTHUR BLVD.
OAKLAND, CALIFORNIA

					HYDROCARBONS	*PRIMARY VOCS*									*GENERAL CHEMISTRY*			
Location	Date	*TOC*	*DTW*	*GWE*	*TPH Gasoline*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*EDB*	*1,2-DCA*	*Ethanol*	*Ferrous iron*	*Methane*	*Nitrate (as N)*	*Sulfate*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*mg/L*	*mg/L*

EDB = 1,2-Dibromoethane (Ethylene dibromide)

1,2-DCA = 1,2-Dichloroethane

-- = Not available / not applicable

<x = Not detected above laboratory reported practical quantitation level.

J = Estimated concentration

1 Unable to locate.

ATTACHMENT A

MONITORING DATA PACKAGE

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: October 22, 2012

TO: Tina Hariu, CRA
Miriam Smith, CRA

SITE: Unocal Site 1871
Facility 351644
96 MacArthur Blvd, Oakland CA

RE: Transmittal of Groundwater Monitoring Data

Dear Ms Hariu,

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on October 16, 2012. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

Please call me at 949-727-7345 if you have questions.

Sincerely,

TRC

Christina Carrillo
Groundwater Program Coordinator

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater gauging and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements (Gauging)

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Unless otherwise instructed, a well that is found to contain a measureable amount of LPH (0.01 foot) is not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps. The pump intake is initially set at about 5 feet below the level of water in the casing, and is lowered as needed to compensate for falling water level. Pump depths are recorded in Field Notes.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously, using a flow cell, until they become stable in general accordance with EPA guidelines.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

GENERAL FIELD PROCEDURES

Samples are collected by lowering a new, disposable polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

Sample containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well. If wells must be gauged or sampled out of order, alternate interface probes and/or pumps are utilized and are noted in field documentation.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging, and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liquinox and water and rinsing twice. The final rinse is in deionized water.

Purge Water Disposal

Purge water is generally collected in labeled drums for disposal as non-hazardous waste. Drums may be left on site for disposal by others, or transported to a collection location at a TRC field office, in either Fullerton, California or Concord, California, for eventual transfer to a licensed treatment or recycling facility. Alternatively, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: JOE Job #/Task #: 189791.0035.1644 Date: 10/16/12

Site # 1871 Project Manager A. Farfan Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-10	X	0527	20.01	7.51	—	—	1030	2"
MW-11	X	0533	30.07	16.10	—	—	1041	2"
MW-6	X	0549	24.45	9.83	—	—	1119	2"
MW-8	X	0555	24.31	10.15	—	—	1053	2"
MW-7	X	0602	24.33	8.95	—	—	1140	2"
MW-9	X	0607	19.88	16.68	—	—	1055	2"
MW-1	X	0611	24.00	14.98	—	—	1150	2"/4"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 1871 Project No.: 149791.0035.1644 Date: 10/16/12

Well No. MW-10 Purge Method: ~~JL SUB~~ DIA

Depth to Water (feet): 7.51 Depth to Product (feet): —

Total Depth (feet) 20.01 LPH & Water Recovered (gallons): —

Water Column (feet): 12.50 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 10.01 1 Well Volume (gallons): 3

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F (C))	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.60	200	
0817			3	591.8	16.6	7.46	1.68	202	
	0819		6	594.2	16.5	7.43	7.03	198	
			9	—	—	—	—	—	

Static at Time Sampled	Total Gallons Purged	Sample Time
14.60	7	1030

Comments: Dry at 7 gals. Did not recharge IN 2 HRS.

Well No. MW-11 Purge Method: JL ~~HB~~ DIA

Depth to Water (feet): 16.10 Depth to Product (feet): —

Total Depth (feet) 30.07 LPH & Water Recovered (gallons): —

Water Column (feet): 13.97 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 18.89 1 Well Volume (gallons): 3

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F (C))	pH	D.O. (mg/L)	ORP	Turbidity
0746 **Pre-Purge**							2.13	385	
JL ~~0731~~			3	2882	17.1	7.23	3.11	211	
			6	2866	16.7	6.87	3.03	211	
	0750		9	2924	16.6	6.86	2.81	211	

Static at Time Sampled	Total Gallons Purged	Sample Time
21.48	9	1041

Comments: Did not recharge IN 2 HRS.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 1871 Project No.: 189791.0035.1644 Date: 10/16/12

Well No. MW-6 Purge Method: JL ~~SUB~~ DIA

Depth to Water (feet): 9.83 Depth to Product (feet): —

Total Depth (feet) 24.45 LPH & Water Recovered (gallons): —

Water Column (feet): 14.62 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 12.75 1 Well Volume (gallons): 3

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, (C))	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.89	172	
0856			3	658.7	20.5	6.89	1.03	163	
			6	680.0	19.8	6.81	0.92	163	
	0859		9	654.0	19.9	6.98	6.43	154	

Static at Time Sampled	Total Gallons Purged	Sample Time
10.05	9	1119

Comments: Dry at 9 gals.

Well No. MW-8 Purge Method: JL ~~SUB~~ DIA

Depth to Water (feet): 10.15 Depth to Product (feet): —

Total Depth (feet) 24.31 LPH & Water Recovered (gallons): —

Water Column (feet): 14.16 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 12.98 1 Well Volume (gallons): 3

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F (C))	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.88	179	
0913			3	686.8	20.2	6.83	1.37	128	
			6	688.7	19.6	6.74	1.66	123	
	0915		9	676.3	19.3	6.81	6.09	114	

Static at Time Sampled	Total Gallons Purged	Sample Time
10.53	9	1130

Comments: Dry at 9 gals.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 1971 Project No.: 18979.0035.1644 Date: 10/16/12

Well No. MW-7 Purge Method: JL ~~SUB~~ DTA

Depth to Water (feet): 8.95 Depth to Product (feet): —

Total Depth (feet) 24.33 LPH & Water Recovered (gallons): —

Water Column (feet): 15.38 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 12.02 1 Well Volume (gallons): 3

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F (C))	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.04	55	
0930			3	582.0	20.5	6.94	1.07	18	
			6	585.7	19.9	6.83	3.37	-17	
	0932		9	587.9	19.8	6.94	6.71	-12	

Static at Time Sampled	Total Gallons Purged	Sample Time
10.05	9	1140

Comments: Dry at 9 gals.

Well No. MW-9 Purge Method: HB

Depth to Water (feet): 16.68 Depth to Product (feet): —

Total Depth (feet) 19.88 LPH & Water Recovered (gallons): —

Water Column (feet): 3.20 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 17.32 1 Well Volume (gallons): 1

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F (C))	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.66	210	
0827			1	519.9	17.4	6.99	1.53	201	
			2	522.2	17.4	6.94	1.50	124	
	0836		3	522.3	17.4	6.92	1.13	115	

Static at Time Sampled	Total Gallons Purged	Sample Time
16.73	3	1055

Comments: Dry at 3 gals.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 1871 Project No.: 189791.0035.1644 Date: 10/16/12

Well No. MW-1 Purge Method: ~~JL SUB~~ DIA

Depth to Water (feet): 14.98 Depth to Product (feet): —

Total Depth (feet) 24.05 LPH & Water Recovered (gallons): —

Water Column (feet): 9.07 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 16.79 1 Well Volume (gallons): 6

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F (C))	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.84	73	
0948			6	322.1	21.0	7.22	1.05	-44	
			12	572.8	20.4	6.77	2.24	-48	
	0951		13	—	—	—	—	—	

Static at Time Sampled	Total Gallons Purged	Sample Time
17.69	12	1150

Comments: Dry at 12 gals. Did not recharge In 2 Hrs

Well No. _____ Purge Method: _____

Depth to Water (feet): _____ Depth to Product (feet): _____

Total Depth (feet) _____ LPH & Water Recovered (gallons): _____

Water Column (feet): _____ Casing Diameter (Inches): _____

80% Recharge Depth(feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Pump Depth (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

WELL BOX CONDITION REPORT

SITE NO. 1871

ADDRESS 96 MacArthur Blvd.

DATE 10/16/12

PERFOMED BY: JOE

PAGE 1 OF 1

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box Is Exposed	Well Box Is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-10	12"	2														Y				
MW-11	12"	2														Y				
MW-6	12"	2														Y				
MW-8	12"	2														Y				
MW-7	12"	2														Y				
MW-9	12"	2														Y				
MW-1	12"	2																		

TRC

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: 1871	Union Oil Consultant: CKA
Site Global ID: T0600101453	Consultant Contact: Tina Hurst
Site Address: 96 MacArthur Blvd. Oakland	Consultant Phone No.: 510-420-3339
	Sampling Company: TRC
Union Oil PM: Kaya Kamgin	Sampled By (PRINT): Joe D. Leous
Union Oil PM Phone No.: 925-710-6270	Sampler Signature:
Charge Code: NWRTB-0 351644 -0- LAB	BC Laboratories, Inc.
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	**Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

SAMPLE ID						ANALYSES REQUIRED											
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	Benzene/TBA by 8260B	EDB/EDC by 8260B	Sulfate / Nitrate	Ferrous Iron	Methane		Notes / Comments
MW-10	W-S-A		12/10/16	1030	7		X		X		X	X	X	X	X		
MW-11	W-S-A			1041													
MW-6	W-S-A			1119													
MW-5	W-S-A			1053													
MW-7	W-S-A			1140													
MW-4	W-S-A			1055													
MW-1	W-S-A		↓	1150	↓		↓		↓		↓	↓	↓	↓	↓		
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time: 1300	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	TRC	12/10/16						
Received By	Company	Date / Time:	Received By	Company	Date / Time :	Received By	Company	Date / Time:
[signature]	DHL	12/10/16 1430						

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

17-Sep-12

Site ID:	1871	**Project No.:**	189791.0035.1644 / 00TA01
Address	96 MacArthur Boulevard	**Client:**	Roya Kambin
City:	Oakland	**Contact #:**	925-790-6270
Cross Street:	Harrison Street	**PM:**	Tina Hariu CRA
		PM Contact #:	510-420-3344

Total number of wells:	7	**Min. Well Diameter (in.):**	2	**# of Techs, # of Hrs:**	1, 6
Depth to Water (ft.):	7	**Max. Well Diameter (in.):**	4	**Travel Time (hrs):**	
		Max. Well Depth (ft):	30	**Hotel PO#:**	

ACTIVITIES:		**Frequency**	**Notes**
Gauging:	☑	Semi Q2/Q4	
Purge/Sampling:	☑	Semi Q2/Q4	
No Purge/Sample	☐		

RELATED ACTIVITIES		**Note**
Drums:	☑	
Other Activities:	☑	No Parking signs
Traffic Control:	☑	City of Oakland & Caltrans

Caltrans permit attached
City permit needed.

PERMIT INFORMATION:

No parking signs to be posted no later then 48 hours before event.

NOTIFICATIONS:

Mark Karvelot, Quick Stop Markets, 510-657-8500
Son's 76: 510-653-6519

SITE INFORMATION:

Take field measurements after each casing volume purged.

Monitor and sample MW-1 last and MW-9 second to last.

Ozone sparge system on site. O&M company is EnvironStrategies. If there are any problems with the system please call Darren Azarian @ 818-968-5864.

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

17-Sep-12

Site ID:	1871	**Project No.:**	189791.0035.1644 / 00TA01
Address	96 MacArthur Boulevard	**Client:**	Roya Kambin
City:	Oakland	**Contact #:**	925-790-6270
Cross Street:	Harrison Street	**PM:**	Tina Hariu CRA
		PM Contact #:	510-420-3344

LAB INFORMATION:

Global ID: T0600101493

Lab WO: 351644

Lab Used: BC Labs

Lab Notes: Lab anaylses:
TPH-G by GC/MS, BTEX/MTBE/TBA by 8260B, Ethanol by 8260B, EDB/EDC by 8260B [Containers. 3 voas w/HCl]
Sulfate, Nitrate [Container: one 500 mL poly unprserved]
Ferrous Iron [Container: one 500 mL poly w/ HCl]
Methane [Containers: 2 voas unpreserved]

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

17-Sep-12

Site ID.: 1871
Address 96 MacArthur Boulevard
City: Oakland
Cross Street Harrison Street

			Gauging				Sampling				Field Measurements			
Well IDs	Benz.	MTBE	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	Comments
MW-11	0	0	☐	☑	☐	☑	☐	☑	☐	☑	☑	☑	D.O., ORP	2" casing
MW-10	0	0	☐	☑	☐	☑	☐	☑	☐	☑	☑	☑	D.O., ORP	2" casing
MW-6	0	0.96	☐	☑	☐	☑	☐	☑	☐	☑	☑	☑	D.O., ORP	2" casing
MW-8	0	1.4	☐	☑	☐	☑	☐	☑	☐	☑	☑	☑	D.O., ORP	2" casing
MW-7	0	4.7	☐	☑	☐	☑	☐	☑	☐	☑	☑	☑	D.O., ORP	2" casing
MW-9	0	63	☐	☑	☐	☑	☐	☑	☐	☑	☑	☑	D.O., ORP	2" casing
MW-1	4.7	14	☐	☑	☐	☑	☐	☑	☐	☑	☑	☑	D.O., ORP	4" casing

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 10/30/2012

Tina Hariu

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Project:	1871
BC Work Order:	1219981
Invoice ID:	B133015

Enclosed are the results of analyses for samples received by the laboratory on 10/16/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

CHAIN OF CUSTODY FORM

#12-19981

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: 1871	Union Oil Consultant: CRA
Site Global ID: T0600101493	Consultant Contact: Tina Hariu
Site Address: 96 MacArthur Blvd. Oakland	Consultant Phone No.: 510-420-3344
Union Oil PM: Roya Kambin	Sampling Company: TRC
Union Oil PM Phone No.: 925-790-6270	Sampled By (PRINT): JOE D. LEWIS
Charge Code: NWRTB-0 351644 -0- LAB	Sampler Signature: Joe D. Lewis

This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.

BC Laboratories, Inc.
Project Manager: Molly Meyers
4100 Atlas Court, Bakersfield, CA 93308
Phone No. 661-327-4911

Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions

SAMPLE ID: Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	BTEX/MTBE/TBA by 8260B	EDB/EDC by 8260B	Sulfate, Nitrate	Ferrous Iron	Methane	Notes / Comments
MW-10	W-S-A	-1	12/10/16	1030	7		X		X		X	X	X	X	X	
MW-11	W-S-A	-2		1041												
MW-6	W-S-A	-3		1119												
MW-8	W-S-A	-4		1053												
MW-7	W-S-A	-5		1140												
MW-9	W-S-A	-6		1055												
MW-1	W-S-A	-7		1150												
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															

CHK BY: BLT

DISTRIBUTION: WHITE YELLOW SUB-OUT

SHORT HOLDING TIME: Cr^{+3} NO_2 NO$_3$ OP SS DO Cl_2 BOD MBAS COT

Relinquished By	Company	Date / Time:
Joe D. Lewis	TRC	10/16/12 1300
Hang Bogan	BC Lab	10-16-12 1900
[illegible]	BCLDB	10-16-12 22:05

Received By	Company	Date / Time:
Hang Bogan	BC Lab	10-16-12 1430
[illegible]	BCLDB	10-16-12 19:15
[illegible]	BCL	10-16-12 2205

Chain of Custody and Cooler Receipt Form for 1219981 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 1 Of 1

Submission #: 12-1998l

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☐ No ☒

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: VOA Thermometer ID: 207 Date/Time 10-11-12

Temperature: (A) 2.8 °C / (C) 2.9 °C Analyst Init JNW 2205

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	C	C	C	C	C	C	C			
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (3)	A (3)	A (3)	A (3)	A (3)	A (3)	A (3)	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504 unpre.	B (2)	B (2)	B (2)	B (2)	B (2)	B (2)	B (2)			
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	D	D	D	D	D	D	D			
ENCORE										
SMART KIT										

Comments: -4 time read 1130 on bottles.
Sample Numbering Completed By: BLT Date/Time: 10/17/12 @ 0715
A = Actual / C = Corrected

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1219981-01	**COC Number:**	---	**Receive Date:**	10/16/2012 22:05
	Project Number:	1871	**Sampling Date:**	10/16/2012 10:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-10-W-121016	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101493	
			Location ID (FieldPoint): MW-10	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1219981-02	**COC Number:**	---	**Receive Date:**	10/16/2012 22:05
	Project Number:	1871	**Sampling Date:**	10/16/2012 10:41
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11-W-121016	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101493	
			Location ID (FieldPoint): MW-11	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1219981-03	**COC Number:**	---	**Receive Date:**	10/16/2012 22:05
	Project Number:	1871	**Sampling Date:**	10/16/2012 11:19
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6-W-121016	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101493	
			Location ID (FieldPoint): MW-6	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1219981-04	**COC Number:**	---	**Receive Date:**	10/16/2012 22:05
	Project Number:	1871	**Sampling Date:**	10/16/2012 10:53
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-8-W-121016	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101493	
			Location ID (FieldPoint): MW-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1219981-05	**COC Number:**	---	**Receive Date:**	10/16/2012 22:05
	Project Number:	1871	**Sampling Date:**	10/16/2012 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7-W-121016	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101493	
			Location ID (FieldPoint): MW-7	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1219981-06	**COC Number:**	---	**Receive Date:**	10/16/2012 22:05
	Project Number:	1871	**Sampling Date:**	10/16/2012 10:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-9-W-121016	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101493	
			Location ID (FieldPoint): MW-9	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1219981-07

COC Number: ---
Project Number: 1871
Sampling Location: ---
Sampling Point: MW-1-W-121016
Sampled By: TRCI

Receive Date: 10/16/2012 22:05
Sampling Date: 10/16/2012 11:50
Sample Depth: ---
Lab Matrix: Water
Sample Type: Water
Delivery Work Order:
Global ID: T0600101493
Location ID (FieldPoint): MW-1
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1219981-01 | **Client Sample Name:** 1871, MW-10-W-121016, 10/16/2012 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	95.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	92.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/18/12	10/18/12 17:32	JMC	MS-V12	1	BVJ1512

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Gas Testing in Water

BCL Sample ID: 1219981-01 | **Client Sample Name:** 1871, MW-10-W-121016, 10/16/2012 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	ND	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/19/12	10/22/12 08:03	JMC	GC-V1	1	BVJ1639

Conestoga-Rovers & Associates
5900 Hollis St. Suite A
Emeryville, CA 94608

Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Water Analysis (General Chemistry)

BCL Sample ID: 1219981-01 | **Client Sample Name:** 1871, MW-10-W-121016, 10/16/2012 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**15**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**29**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/17/12	10/17/12 20:24	LS1	IC5	1	BVJ1478
2	SM-3500-FeD	10/17/12	10/17/12 08:56	TDC	KONE-1	1	BVJ1453

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1219981-02 | **Client Sample Name:** 1871, MW-11-W-121016, 10/16/2012 10:41:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/18/12	10/18/12 17:14	JMC	MS-V12	1	BVJ1512

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Gas Testing in Water

BCL Sample ID: 1219981-02 | **Client Sample Name:** 1871, MW-11-W-121016, 10/16/2012 10:41:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0014**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/19/12	10/22/12 07:59	JMC	GC-V1	1	BVJ1639

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Water Analysis (General Chemistry)

BCL Sample ID: 1219981-02 | **Client Sample Name:** 1871, MW-11-W-121016, 10/16/2012 10:41:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**4.4**	**mg/L**	**0.88**	**EPA-300.0**	ND	**A01**	1
Sulfate	**53**	**mg/L**	**2.0**	**EPA-300.0**	ND	**A01**	1
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/17/12	10/17/12 20:39	LS1	IC5	2	BVJ1478
2	SM-3500-FeD	10/17/12	10/17/12 08:56	TDC	KONE-1	1	BVJ1453

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1219981-03 | **Client Sample Name:** 1871, MW-6-W-121016, 10/16/2012 11:19:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**1.1**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	93.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/18/12	10/18/12 16:57	JMC	MS-V12	1	BVJ1512

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Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Gas Testing in Water

BCL Sample ID: 1219981-03 | **Client Sample Name:** 1871, MW-6-W-121016, 10/16/2012 11:19:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0097**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/19/12	10/22/12 07:55	JMC	GC-V1	1	BVJ1639

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Water Analysis (General Chemistry)

BCL Sample ID: 1219981-03 | **Client Sample Name:** 1871, MW-6-W-121016, 10/16/2012 11:19:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		1
Sulfate	**22**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/17/12	10/17/12 20:53	LS1	IC5	1	BVJ1478
2	SM-3500-FeD	10/17/12	10/17/12 08:56	TDC	KONE-1	1	BVJ1453

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1219981-04 | **Client Sample Name:** 1871, MW-8-W-121016, 10/16/2012 10:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**0.74**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	85.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/18/12	10/18/12 16:39	JMC	MS-V12	1	BVJ1512

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Gas Testing in Water

BCL Sample ID: 1219981-04 | **Client Sample Name:** 1871, MW-8-W-121016, 10/16/2012 10:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	ND	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/19/12	10/22/12 07:52	JMC	GC-V1	1	BVJ1639

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Water Analysis (General Chemistry)

BCL Sample ID: 1219981-04 | **Client Sample Name:** 1871, MW-8-W-121016, 10/16/2012 10:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**3.2**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**55**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/17/12	10/17/12 21:07	LS1	IC5	1	BVJ1478
2	SM-3500-FeD	10/17/12	10/17/12 08:56	TDC	KONE-1	1	BVJ1453

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1219981-05 | **Client Sample Name:** 1871, MW-7-W-121016, 10/16/2012 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**2.6**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/18/12	10/18/12 16:22	JMC	MS-V12	1	BVJ1512

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Gas Testing in Water

BCL Sample ID: 1219981-05 | **Client Sample Name:** 1871, MW-7-W-121016, 10/16/2012 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0019**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/19/12	10/22/12 07:48	JMC	GC-V1	1	BVJ1639

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Water Analysis (General Chemistry)

BCL Sample ID: 1219981-05 | **Client Sample Name:** 1871, MW-7-W-121016, 10/16/2012 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		1
Sulfate	**15**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**120**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/17/12	10/17/12 21:22	LS1	IC5	1	BVJ1478
2	SM-3500-FeD	10/17/12	10/17/12 08:56	TDC	KONE-1	1	BVJ1453

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1219981-06 | **Client Sample Name:** 1871, MW-9-W-121016, 10/16/2012 10:55:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**72**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Butyl alcohol	**13**	**ug/L**	**10**	**EPA-8260B**	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons	**70**	**ug/L**	**50**	**Luft-GC/MS**	ND	**A90**	1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/18/12	10/18/12 16:04	JMC	MS-V12	1	BVJ1512

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Gas Testing in Water

BCL Sample ID: 1219981-06 | **Client Sample Name:** 1871, MW-9-W-121016, 10/16/2012 10:55:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	ND	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/19/12	10/22/12 07:43	JMC	GC-V1	1	BVJ1639

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Water Analysis (General Chemistry)

BCL Sample ID: 1219981-06 | **Client Sample Name:** 1871, MW-9-W-121016, 10/16/2012 10:55:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**0.62**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**40**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**150**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/17/12	10/17/12 21:36	LS1	IC5	1	BVJ1478
2	SM-3500-FeD	10/17/12	10/17/12 08:56	TDC	KONE-1	1	BVJ1453

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1219981-07 | **Client Sample Name:** 1871, MW-1-W-121016, 10/16/2012 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	1.0	EPA-8260B	ND	A01	1
1,2-Dibromoethane	ND	ug/L	1.0	EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	1.0	EPA-8260B	ND	A01	1
Ethylbenzene	**7.5**	**ug/L**	**1.0**	**EPA-8260B**	ND	**A01**	1
Methyl t-butyl ether	ND	ug/L	1.0	EPA-8260B	ND	A01	1
Toluene	ND	ug/L	1.0	EPA-8260B	ND	A01	1
Total Xylenes	ND	ug/L	2.0	EPA-8260B	ND	A01	1
t-Butyl alcohol	**30**	**ug/L**	**20**	**EPA-8260B**	ND	**A01**	1
Ethanol	ND	ug/L	500	EPA-8260B	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**290**	**ug/L**	**100**	**Luft-GC/MS**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	95.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	10/18/12	10/18/12 15:37	JMC	MS-V12	2	BVJ1512

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Gas Testing in Water

BCL Sample ID: 1219981-07 | **Client Sample Name:** 1871, MW-1-W-121016, 10/16/2012 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0018**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	10/19/12	10/22/12 07:29	JMC	GC-V1	1	BVJ1639

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Water Analysis (General Chemistry)

BCL Sample ID: 1219981-07 | **Client Sample Name:** 1871, MW-1-W-121016, 10/16/2012 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**0.44**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**29**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Iron (II) Species	**120**	**ug/L**	**100**	**SM-3500-FeD**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/17/12	10/17/12 21:51	LS1	IC5	1	BVJ1478
2	SM-3500-FeD	10/17/12	10/17/12 08:56	TDC	KONE-1	1	BVJ1453

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Reported: 10/30/2012 8:20
Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVJ1512						
Benzene	BVJ1512-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVJ1512-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVJ1512-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVJ1512-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVJ1512-BLK1	ND	ug/L	0.50		
Toluene	BVJ1512-BLK1	ND	ug/L	0.50		
Total Xylenes	BVJ1512-BLK1	ND	ug/L	1.0		
t-Butyl alcohol	BVJ1512-BLK1	ND	ug/L	10		
Ethanol	BVJ1512-BLK1	ND	ug/L	250		
Total Purgeable Petroleum Hydrocarbons	BVJ1512-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BVJ1512-BLK1	108	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVJ1512-BLK1	98.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVJ1512-BLK1	96.1	%	80 - 120 (LCL - UCL)		

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Project: 1871
Project Number: 351644
Project Manager: Tina Hariu

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVJ1512										
Benzene	BVJ1512-BS1	LCS	31.020	25.000	ug/L	124		70 - 130		
Toluene	BVJ1512-BS1	LCS	27.650	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVJ1512-BS1	LCS	10.480	10.000	ug/L	105		75 - 125		
Toluene-d8 (Surrogate)	BVJ1512-BS1	LCS	9.3700	10.000	ug/L	93.7		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVJ1512-BS1	LCS	10.850	10.000	ug/L	108		80 - 120		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVJ1512	Used client sample: N										
Benzene	MS	1219714-06	ND	30.360	25.000	ug/L		121		70 - 130	
	MSD	1219714-06	ND	30.890	25.000	ug/L	1.7	124	20	70 - 130	
Toluene	MS	1219714-06	ND	25.200	25.000	ug/L		101		70 - 130	
	MSD	1219714-06	ND	28.810	25.000	ug/L	13.4	115	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1219714-06	ND	10.280	10.000	ug/L		103		75 - 125	
	MSD	1219714-06	ND	10.240	10.000	ug/L	0.4	102		75 - 125	
Toluene-d8 (Surrogate)	MS	1219714-06	ND	9.4400	10.000	ug/L		94.4		80 - 120	
	MSD	1219714-06	ND	10.200	10.000	ug/L	7.7	102		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1219714-06	ND	10.520	10.000	ug/L		105		80 - 120	
	MSD	1219714-06	ND	10.580	10.000	ug/L	0.6	106		80 - 120	

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Gas Testing in Water

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVJ1639						
Methane	BVJ1639-BLK1	ND	mg/L	0.0010		

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Gas Testing in Water

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVJ1639										
Methane	BVJ1639-BS1	LCS	0.011166	0.010843	mg/L	103		80 - 120		
	BVJ1639-BSD1	LCSD	0.010783	0.010843	mg/L	99.4	3.5	80 - 120	20	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVJ1453						
Iron (II) Species	BVJ1453-BLK1	ND	ug/L	100		
QC Batch ID: BVJ1478						
Nitrate as NO3	BVJ1478-BLK1	ND	mg/L	0.44		
Sulfate	BVJ1478-BLK1	ND	mg/L	1.0		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVJ1453										
Iron (II) Species	BVJ1453-BS1	LCS	2468.3	2500.0	ug/L	98.7		90 - 110		
QC Batch ID: BVJ1478										
Nitrate as NO3	BVJ1478-BS1	LCS	21.837	22.134	mg/L	98.7		90 - 110		
Sulfate	BVJ1478-BS1	LCS	102.28	100.00	mg/L	102		90 - 110		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVJ1453	Used client sample: Y - Description: MW-10-W-121016, 10/16/2012 10:30										
Iron (II) Species	DUP	1219981-01	ND	ND		ug/L			10		
QC Batch ID: BVJ1478	Used client sample: Y - Description: MW-10-W-121016, 10/16/2012 10:30										
Nitrate as NO3	DUP	1219981-01	14.976	14.847		mg/L	0.9		10		
	MS	1219981-01	14.976	37.315	22.358	mg/L		99.9		80 - 120	
	MSD	1219981-01	14.976	38.509	22.358	mg/L	3.1	105	10	80 - 120	
Sulfate	DUP	1219981-01	29.306	29.388		mg/L	0.3		10		
	MS	1219981-01	29.306	137.50	101.01	mg/L		107		80 - 120	
	MSD	1219981-01	29.306	137.96	101.01	mg/L	0.3	108	10	80 - 120	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
µg/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)
D	=	duplicate
P	=	no-purge sample

ANALYTES

DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-G (GC/MS)	=	total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (Dp x LPH Thickness), where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Prior to the 1st quarter 2010, the word "monitor" was used in table comments interchangeably with the word "gauge". Starting in the 1st quarter 2010, the word "monitor" is used to include both "gauge" and "sample".

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 1871 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Contents of Tables 1 and 2
Site: 76 Station 1871

Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G 8015	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 1a	Well/ Date	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	Post-purge Dissolved Oxygen	Post-purge ORP						

Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G 8015	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 2a	Well/ Date	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP
Table 2b	Well/ Date	Post-purge ORP											

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

May 27, 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1			**(Screen Interval in feet: 9.5-24.5)**											
5/27/2011	90.21	13.75	0.00	76.46	1.08	--	1500	3.2	ND<2.5	86	14	--	10	
MW-6			**(Screen Interval in feet: 5.0-25.0)**											
5/27/2011	82.51	8.76	0.00	73.75	1.12	--	52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.0	
MW-7			**(Screen Interval in feet: 5.0-25.0)**											
5/27/2011	83.80	8.73	0.00	75.07	4.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
MW-8			**(Screen Interval in feet: 5.0-25.0)**											
5/27/2011	84.86	8.12	0.00	76.74	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
MW-9			**(Screen Interval in feet:--)**											
5/27/2011	85.18	15.37	0.00	69.81	1.43	--	59	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	70	
MW-10			**(Screen Interval in feet:--)**											
5/27/2011	78.18	6.62	0.00	71.56	1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-11			**(Screen Interval in feet:--)**											
5/27/2011	80.44	15.60	0.00	64.84	-0.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

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Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	Post-purge Dissolved Oxygen (mg/l)	Post-purge ORP (mV)
MW-1						
5/27/2011	ND<50	ND<1200	ND<2.5	ND<2.5	0.37	-19
MW-6						
5/27/2011	ND<10	ND<250	ND<0.50	ND<0.50	0.61	199
MW-7						
5/27/2011	ND<10	ND<250	ND<0.50	ND<0.50	0.48	145
MW-8						
5/27/2011	ND<10	ND<250	ND<0.50	ND<0.50	0.48	209
MW-9						
5/27/2011	ND<10	ND<250	ND<0.50	ND<0.50	1.51	95
MW-10						
5/27/2011	ND<10	ND<250	ND<0.50	ND<0.50	1.52	192
MW-11						
5/27/2011	ND<10	ND<250	ND<0.50	ND<0.50	3.11	205

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1			**(Screen Interval in feet: 9.5-24.5)**											
11/3/1992	--	--	--	--	--	260000	--	2300	4600	3700	17000	--	--	
1/25/1993	81.18	--	0.00	--	--	120000	--	2100	4600	4900	22000	--	--	
4/29/1993	81.18	13.71	0.00	67.47	--	100000	--	850	2000	4300	19000	--	--	
7/16/1993	81.18	14.51	0.00	66.67	-0.80	29000	--	590	560	980	4200	--	--	
10/19/1993	81.18	15.20	0.00	65.98	-0.69	67000	--	1400	2600	2900	5000	--	--	
1/20/1994	81.18	15.17	0.00	66.01	0.03	92000	--	1200	3000	3400	17000	--	--	
4/13/1994	81.18	14.44	0.00	66.74	0.73	51000	--	1000	2600	3200	15000	--	--	
7/13/1994	81.18	14.88	0.00	66.30	-0.44	35000	--	550	150	1400	5700	--	--	
10/10/1994	81.18	15.55	0.00	65.63	-0.67	52000	--	1000	810	3300	12000	--	--	
1/10/1995	81.18	12.44	0.00	68.74	3.11	810	--	16	18	59	250	--	--	
4/17/1995	81.18	12.68	0.00	68.50	-0.24	48000	--	880	530	2500	11000	--	--	
7/24/1995	81.18	13.97	0.00	67.21	-1.29	48000	--	1500	420	2700	9700	--	--	
10/23/1995	81.18	14.85	0.00	66.33	-0.88	47000	--	780	210	2100	11000	270	--	
1/18/1996	81.18	14.21	0.00	66.97	0.64	30000	--	1500	500	3500	13000	2400	--	
4/18/1996	86.24	13.40	0.00	72.84	5.87	66000	--	2700	2200	3100	13000	57000	--	
7/24/1996	86.24	14.15	0.00	72.09	-0.75	5600	--	2100	ND	160	160	24000	--	
10/24/1996	86.24	14.85	0.00	71.39	-0.70	110000	--	7500	8000	3300	14000	58000	--	
1/28/1997	86.24	11.25	0.00	74.99	3.60	94000	--	7700	19000	3100	15000	120000	--	
7/29/1997	86.24	14.67	0.00	71.57	-3.42	ND	--	ND	ND	ND	ND	70000	--	
1/14/1998	86.24	12.27	0.00	73.97	2.40	85000	--	6100	10000	3000	17000	110000	--	
7/1/1998	86.24	14.32	0.00	71.92	-2.05	110000	--	8700	12000	2700	15000	110000	--	
6/18/1999	86.24	13.93	0.00	72.31	0.39	49000	--	6900	6500	380	12000	72000	47000	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
1/21/2000	86.24	15.05	0.00	71.19	-1.12	63700	--	5520	2000	2640	13100	57100	--	
7/10/2000	86.24	13.97	0.00	72.27	1.08	67800	--	9910	4120	3330	16100	67400	54000	
1/4/2001	86.24	14.92	0.00	71.32	-0.95	63900	--	6270	784	2670	12900	--	38100	
7/16/2001	86.24	14.32	0.00	71.92	0.60	66000	--	7100	330	2300	9800	36000	41000	
1/31/2002	86.99	13.54	0.00	73.45	1.53	42000	--	5800	1800	2000	8200	26000	26000	
4/11/2002	86.99	13.64	0.00	73.35	-0.10	58000	--	2900	1200	1800	10000	19000	--	
7/11/2002	86.99	13.96	0.00	73.03	-0.32	--	5900	330	ND<10	230	600	--	3400	
10/15/2002	86.99	14.71	0.00	72.28	-0.75	--	470	16	ND<2.5	14	16	--	390	
1/14/2003	86.99	12.77	0.00	74.22	1.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	49	
4/16/2003	86.99	13.18	0.00	73.81	-0.41	--	510	57	0.62	29	61	--	160	
7/16/2003	86.99	14.26	0.00	72.73	-1.08	--	27000	260	23	730	3200	--	1200	
10/2/2003	86.99	14.95	0.00	72.04	-0.69	--	45000	1400	32	2900	7600	--	3200	
1/7/2004	86.99	12.30	0.00	74.69	2.65	--	34000	690	41	1600	5200	--	2600	
4/2/2004	86.99	13.18	0.00	73.81	-0.88	--	350	1.8	ND<0.50	6.2	30	--	19	
7/29/2004	86.99	14.61	0.00	72.38	-1.43	--	41000	550	ND<20	2000	6100	--	1200	
11/24/2004	86.99	14.98	0.00	72.01	-0.37	--	55000	910	28	3100	11000	--	1600	
1/24/2005	86.99	12.98	0.00	74.01	2.00	--	24000	240	ND<20	1100	3600	--	1800	
6/23/2005	86.99	13.39	0.00	73.60	-0.41	--	24000	140	ND<25	1100	2900	--	600	
9/28/2005	86.99	14.63	0.00	72.36	-1.24	--	8200	22	0.97	290	660	--	320	
12/20/2005	86.99	11.42	0.00	75.57	3.21	--	10000	17	29	180	840	--	2400	
3/10/2006	86.99	10.98	0.00	76.01	0.44	--	10000	35	ND<5.0	470	1300	--	960	
6/23/2006	86.99	11.85	0.00	75.14	-0.87	--	11000	110	ND<5.0	610	1600	--	780	
9/27/2006	86.99	14.11	0.00	72.88	-2.26	--	8500	22	ND<10	270	740	--	460	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
12/22/2006	86.99	13.66	0.00	73.33	0.45	--	7300	35	ND<5.0	370	850	--	210	
3/23/2007	86.99	13.25	0.00	73.74	0.41	--	8800	28	ND<2.5	440	910	--	170	
6/29/2007	86.99	13.47	0.00	73.52	-0.22	--	6300	16	ND<2.5	300	650	--	50	
9/28/2007	86.99	13.92	0.00	73.07	-0.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.2	
12/17/2007	86.99	14.57	0.00	72.42	-0.65	--	4700	ND<5.0	ND<5.0	71	160	--	18	
3/25/2008	86.99	13.56	0.00	73.43	1.01	--	7400	28	ND<2.5	430	540	--	170	
6/12/2008	86.99	14.07	0.00	72.92	-0.51	--	4900	6.4	ND<2.5	170	280	--	16	
9/25/2008	86.99	14.55	0.00	72.44	-0.48	--	2200	2.1	ND<0.50	72	110	--	11	
12/30/2008	86.99	14.16	0.00	72.83	0.39	--	3200	2.5	ND<0.50	100	150	--	8.3	
3/24/2009	86.99	12.76	0.00	74.23	1.40	--	3500	6.8	ND<0.50	140	140	--	28	
6/23/2009	86.99	13.88	0.00	73.11	-1.12	--	740	ND<2.5	ND<2.5	17	12	--	7.5	
12/16/2009	86.99	14.32	0.00	72.67	-0.44	--	4600	10	ND<1.0	270	140	--	52	
4/14/2010	86.99	12.12	0.00	74.87	2.20	--	1500	4.8	ND<1.0	100	36	--	20	
10/13/2010	90.21	14.83	0.00	75.38	0.51	--	4600	3.0	ND<0.50	180	73	--	5.6	
5/27/2011	90.21	13.75	0.00	76.46	1.08	--	1500	3.2	ND<2.5	86	14	--	10	
MW-2			**(Screen Interval in feet: --)**											
11/3/1992	76.61	--	--	--	--	140	--	2.2	ND	ND	2.0	--	--	
1/25/1993	76.61	--	--	--	--	2100	--	56	1.1	90	140	--	--	
4/29/1993	76.61	9.73	0.00	66.88	--	1500	--	290	ND	33	11	--	--	
7/16/1993	76.61	10.17	0.00	66.44	-0.44	510	--	17	0.60	3.2	2.5	--	--	
10/19/1993	76.61	11.18	0.00	65.43	-1.01	670	--	24	1.1	7.7	23	--	--	
1/20/1994	76.61	11.12	0.00	65.49	0.06	820	--	97	ND	12	ND	--	--	
4/13/1994	76.61	10.12	0.00	66.49	1.00	550	--	71	ND	5.1	1.3	--	--	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued														
7/13/1994	76.61	10.86	0.00	65.75	-0.74	2000	--	490	ND	17	13	--	--	
10/10/1994	76.61	11.48	0.00	65.13	-0.62	2300	--	340	ND	25	ND	--	--	
1/10/1995	76.61	8.71	0.00	67.90	2.77	850	--	3.8	ND	8.5	1.3	--	--	
4/17/1995	76.61	8.90	0.00	67.71	-0.19	1300	--	4.7	ND	8.3	1.2	--	--	
7/24/1995	76.61	9.94	0.00	66.67	-1.04	960	--	20	ND	4.2	6.2	--	--	
10/23/1995	76.61	10.70	0.00	65.91	-0.76	ND	--	ND	ND	ND	ND	19	--	
1/18/1996	76.61	10.11	0.00	66.50	0.59	900	--	300	86	7.6	18	4300	--	
4/18/1996	81.66	9.27	0.00	72.39	5.89	18000	--	3600	680	890	4100	19000	--	
7/24/1996	81.66	10.02	0.00	71.64	-0.75	100000	--	13000	21000	2700	16000	120000	--	
10/24/1996	81.66	10.78	0.00	70.88	-0.76	800	--	110	17	11	20	20000	--	
1/28/1997	81.66	7.70	0.00	73.96	3.08	45000	--	2400	2900	2000	7600	29000	--	
7/29/1997	81.66	10.28	0.00	71.38	-2.58	ND	--	1.2	0.72	0.63	0.62	17000	--	
1/14/1998	81.66	8.63	0.00	73.03	1.65	14000	--	1000	150	790	3300	23000	--	
7/1/1998	81.66	9.53	0.00	72.13	-0.90	2700	--	100	ND	180	78	7100	--	
6/18/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-3			**(Screen Interval in feet: --)**											
11/3/1992	77.48	--	--	--	--	2100	--	120	15	38	200	--	--	
1/25/1993	77.48	--	--	--	--	2300	--	80	1	55	52	--	--	
4/29/1993	77.48	11.37	0.00	66.11	--	4500	--	1700	ND	200	140	--	--	
7/16/1993	77.48	12.09	0.00	65.39	-0.72	4000	--	1100	28	52	70	--	--	
10/19/1993	77.48	12.69	0.00	64.79	-0.60	3800	--	42	ND	50	56	--	--	
1/20/1994	77.48	12.65	0.00	64.83	0.04	4200	--	11	ND	21	15	--	--	
4/13/1994	77.48	12.02	0.00	65.46	0.63	4200	--	210	ND	36	53	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
7/13/1994	77.48	12.46	0.00	65.02	-0.44	1800	--	16	16	ND	21	--	--	
10/10/1994	77.48	12.98	0.00	64.50	-0.52	4300	--	11	ND	12	ND	--	--	
1/10/1995	77.48	10.42	0.00	67.06	2.56	310	--	4.6	ND	3.5	2.1	--	--	
4/17/1995	77.48	10.42	0.00	67.06	0.00	7800	--	ND	4.6	300	450	--	--	
7/24/1995	77.48	11.76	0.00	65.72	-1.34	3200	--	170	ND	22	16	--	--	
10/23/1995	77.48	12.50	0.00	64.98	-0.74	3900	--	55	ND	19	11	4500	--	
1/18/1996	77.48	11.79	0.00	65.69	0.71	2200	--	270	33	26	18	5500	--	
4/18/1996	82.55	11.30	0.00	71.25	5.56	6000	--	1800	ND	100	230	48000	--	
7/24/1996	82.55	12.17	0.00	70.38	-0.87	ND	--	2500	ND	ND	ND	71000	--	
10/24/1996	82.55	12.65	0.00	69.90	-0.48	3800	--	660	ND	15	ND	65000	--	
1/28/1997	82.55	9.50	0.00	73.05	3.15	4400	--	250	13	87	47	54000	--	
7/29/1997	82.55	11.99	0.00	70.56	-2.49	ND	--	3500	ND	220	ND	75000	--	
1/14/1998	82.55	10.30	0.00	72.25	1.69	ND	--	430	ND	100	380	37000	--	
7/1/1998	82.55	11.70	0.00	70.85	-1.40	ND	--	430	ND	ND	ND	45000	--	
6/18/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-4			**(Screen Interval in feet: --)**											
4/18/1996	82.04	9.83	0.00	72.21	--	ND	--	630	ND	ND	ND	18000	--	
7/24/1996	82.04	10.47	0.00	71.57	-0.64	ND	--	ND	ND	ND	5.2	3900	--	
10/24/1996	82.04	11.14	0.00	70.90	-0.67	ND	--	ND	ND	ND	ND	6300	--	
1/28/1997	82.04	7.94	0.00	74.10	3.20	1200	--	490	ND	17	6.8	16000	--	
7/29/1997	82.04	10.86	0.00	71.18	-2.92	50	--	1.5	0.61	0.73	0.78	15000	--	
1/14/1998	82.04	8.73	0.00	73.31	2.13	ND	--	ND	ND	ND	ND	5200	--	
7/1/1998	82.04	10.51	0.00	71.53	-1.78	ND	--	ND	ND	ND	ND	640	--	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
6/18/1999	82.04	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-5			**(Screen Interval in feet: –)**											
4/18/1996	81.80	9.65	0.00	72.15	--	31000	--	5500	1400	1700	8100	66000	--	
7/24/1996	81.80	10.80	0.00	71.00	-1.15	32000	--	6400	ND	1600	6100	120000	--	
10/24/1996	81.80	11.40	0.00	70.40	-0.60	17000	--	6900	ND	970	130	84000	--	
1/28/1997	81.80	7.76	0.00	74.04	3.64	19000	--	6100	62	82	310	160000	--	
7/29/1997	81.80	11.58	0.00	70.22	-3.82	ND	--	ND	ND	ND	ND	71000	--	
1/14/1998	81.80	9.08	0.00	72.72	2.50	ND	--	3600	ND	ND	ND	80000	--	
7/1/1998	81.80	11.25	0.00	70.55	-2.17	6400	--	2100	21	120	330	61000	--	
6/18/1999	81.80	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-6			**(Screen Interval in feet: 5.0-25.0)**											
6/18/1999	78.91	9.30	0.00	69.61	--	2100	--	21	29	ND	47	97000	71000	
1/21/2000	78.91	9.37	0.00	69.54	-0.07	1880	--	143	31.2	106	196	41200	48800	
7/10/2000	78.91	8.94	0.00	69.97	0.43	5710	--	869	209	301	1430	22200	19500	
1/4/2001	78.91	9.21	0.00	69.70	-0.27	ND	--	ND	ND	ND	ND	--	9510	
7/16/2001	78.91	9.42	0.00	69.49	-0.21	4800	--	200	21	150	440	29000	34000	
1/31/2002	78.91	8.50	0.00	70.41	0.92	12000	--	250	92	500	1500	26000	31000	
4/11/2002	79.67	9.08	0.00	70.59	0.18	3600	--	42	32	39	280	120000	--	
7/11/2002	79.67	9.70	0.00	69.97	-0.62	--	12000	ND<100	ND<100	ND<100	ND<200	--	15000	
10/15/2002	79.67	9.96	0.00	69.71	-0.26	--	1300	ND<10	ND<10	ND<10	ND<20	--	3200	
1/14/2003	79.67	8.31	0.00	71.36	1.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
4/16/2003	79.67	8.21	0.00	71.46	0.10	--	270	ND<0.50	ND<0.50	ND<0.50	1.3	--	15	
7/16/2003	79.67	9.43	0.00	70.24	-1.22	--	290	39	0.60	ND<0.50	15	--	150	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

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76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
10/2/2003	79.67	9.92	0.00	69.75	-0.49	--	200	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	220	
1/7/2004	79.67	8.08	0.00	71.59	1.84	--	140	2.4	ND<1.0	8.6	13	--	86	
4/2/2004	79.67	8.63	0.00	71.04	-0.55	--	3200	ND<20	ND<20	ND<20	ND<40	--	5900	
7/29/2004	79.67	9.75	0.00	69.92	-1.12	--	170	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	160	
11/24/2004	79.67	9.59	0.00	70.08	0.16	--	80	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
1/24/2005	79.67	8.33	0.00	71.34	1.26	--	100	1.1	ND<0.50	0.60	1.1	--	40	
6/23/2005	79.67	8.33	0.00	71.34	0.00	--	230	0.52	ND<0.50	3.6	9.6	--	200	
9/28/2005	79.67	9.56	0.00	70.11	-1.23	--	500	ND<0.50	ND<0.50	ND<0.50	1.2	--	980	
12/20/2005	79.67	7.82	0.00	71.85	1.74	--	640	0.79	ND<0.50	0.68	2.3	--	2400	
3/10/2006	79.67	6.83	0.00	72.84	0.99	--	970	1.2	ND<0.50	1.3	5.0	--	3600	
6/23/2006	79.67	8.13	0.00	71.54	-1.30	--	1700	ND<12	ND<12	ND<12	ND<25	--	1100	
9/27/2006	79.67	9.44	0.00	70.23	-1.31	--	ND<1200	ND<12	ND<12	ND<12	ND<12	--	620	
12/22/2006	79.67	8.60	0.00	71.07	0.84	--	9100	ND<10	ND<10	ND<10	ND<10	--	600	
3/23/2007	79.67	8.39	0.00	71.28	0.21	--	330	ND<0.50	ND<0.50	0.82	ND<0.50	--	680	
6/29/2007	79.67	9.02	0.00	70.65	-0.63	--	180	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	290	
9/28/2007	79.67	9.65	0.00	70.02	-0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/17/2007	79.67	9.62	0.00	70.05	0.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	
3/25/2008	79.67	8.63	0.00	71.04	0.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12	
6/12/2008	79.67	9.47	0.00	70.20	-0.84	--	84	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	17	
9/25/2008	79.67	9.95	0.00	69.72	-0.48	--	66	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15	
12/30/2008	79.67	8.96	0.00	70.71	0.99	--	55	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12	
3/24/2009	79.67	8.02	0.00	71.65	0.94	--	73	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
6/23/2009	79.67	9.33	0.00	70.34	-1.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.0	

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Table 2

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November 1992 Through May 2011

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
12/16/2009	79.67	9.39	0.00	70.28	-0.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.7	
4/14/2010	79.67	8.13	0.00	71.54	1.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.1	
10/13/2010	82.51	9.88	0.00	72.63	1.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.0	
5/27/2011	82.51	8.76	0.00	73.75	1.12	--	52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.0	
MW-7			**(Screen Interval in feet: 5.0-25.0)**											
6/18/1999	79.92	8.70	0.00	71.22	--	ND	--	ND	ND	ND	ND	16000	13000	
1/21/2000	79.92	9.30	0.00	70.62	-0.60	ND	--	ND	ND	ND	ND	12300	18200	
7/10/2000	79.92	8.72	0.00	71.20	0.58	ND	--	ND	ND	ND	ND	16900	13800	
1/4/2001	79.92	9.17	0.00	70.75	-0.45	ND	--	ND	ND	ND	0.719	--	37.3	
7/16/2001	79.92	9.02	0.00	70.90	0.15	ND	--	ND	ND	ND	ND	7200	4700	
1/31/2002	79.92	7.91	0.00	72.01	1.11	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8900	9900	
4/11/2002	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
7/11/2002	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
10/15/2002	80.67	9.81	0.00	70.86	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	12000	
1/14/2003	80.67	7.89	0.00	72.78	1.92	--	ND<25000	ND<250	ND<250	ND<250	ND<500	--	33000	
4/16/2003	80.67	8.04	0.00	72.63	-0.15	--	ND<25000	ND<250	ND<250	ND<250	ND<500	--	37000	
7/16/2003	80.67	9.19	0.00	71.48	-1.15	--	25000	ND<250	ND<250	ND<250	ND<500	--	38000	
10/2/2003	80.67	9.89	0.00	70.78	-0.70	--	17000	ND<100	ND<100	ND<100	ND<200	--	22000	
1/7/2004	80.67	7.27	0.00	73.40	2.62	--	ND<20000	ND<200	460	ND<200	540	--	19000	
4/2/2004	80.67	8.09	0.00	72.58	-0.82	--	3400	ND<20	ND<20	ND<20	ND<40	--	5100	
7/29/2004	80.67	9.40	0.00	71.27	-1.31	--	7400	ND<50	ND<50	ND<50	ND<100	--	11000	
11/24/2004	80.67	9.65	0.00	71.02	-0.25	--	6200	ND<50	ND<50	ND<50	ND<100	--	6800	
1/24/2005	80.67	7.92	0.00	72.75	1.73	--	ND<5000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13000	

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HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
6/23/2005	80.67	8.56	0.00	72.11	-0.64	--	8700	ND<25	ND<25	ND<25	ND<50	--	12000	
9/28/2005	80.67	9.37	0.00	71.30	-0.81	--	1200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5700	
12/20/2005	80.67	6.31	0.00	74.36	3.06	--	1100	0.90	ND<0.50	24	37	--	8200	
3/10/2006	80.67	5.84	0.00	74.83	0.47	--	1200	24	ND<0.50	3.6	ND<1.0	--	4700	
6/23/2006	80.67	6.83	0.00	73.84	-0.99	--	1800	21	ND<12	ND<12	ND<25	--	1500	
9/27/2006	80.67	8.95	0.00	71.72	-2.12	--	ND<1200	ND<12	ND<12	ND<12	ND<12	--	350	
12/22/2006	80.67	8.35	0.00	72.32	0.60	--	24000	ND<50	ND<50	ND<50	ND<50	--	190	
3/23/2007	80.67	8.01	0.00	72.66	0.34	--	85	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	92	
6/29/2007	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
9/28/2007	80.67	9.05	0.00	71.62	--	--	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	37	
12/19/2007	80.67	9.23	0.00	71.44	-0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
3/25/2008	80.67	8.45	0.00	72.22	0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.3	
6/12/2008	80.67	8.92	0.00	71.75	-0.47	--	52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.4	
9/25/2008	80.67	9.55	0.00	71.12	-0.63	--	65	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	
12/30/2008	80.67	8.99	0.00	71.68	0.56	--	130	ND<0.50	ND<0.50	ND<0.50	1.1	--	5.7	
3/24/2009	80.67	7.73	0.00	72.94	1.26	--	98	0.50	ND<0.50	ND<0.50	ND<1.0	--	9.2	
6/23/2009	80.67	9.05	0.00	71.62	-1.32	--	290	1.2	ND<0.50	ND<0.50	ND<1.0	--	6.7	
12/16/2009	80.67	9.42	0.00	71.25	-0.37	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.7	
4/14/2010	80.67	7.87	0.00	72.80	1.55	--	60	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.7	
10/13/2010	80.67	10.13	0.00	70.54	-2.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	
5/27/2011	83.80	8.73	0.00	75.07	4.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
MW-8			**(Screen Interval in feet: 5.0-25.0)**											
6/18/1999	80.96	9.10	0.00	71.86	--	ND	--	ND	ND	ND	ND	290	160	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8 continued														
1/21/2000	80.96	10.00	0.00	70.96	-0.90	ND	--	ND	ND	ND	1.09	224	221	
7/10/2000	80.96	7.94	0.00	73.02	2.06	ND	--	ND	ND	ND	ND	234	223	
1/4/2001	80.96	9.76	0.00	71.20	-1.82	3790	--	141	8.92	128	375	--	34200	
7/16/2001	80.96	9.15	0.00	71.81	0.61	ND	--	ND	ND	ND	ND	66	70	
1/31/2002	80.96	7.99	0.00	72.97	1.16	5900	--	86	ND<10	630	390	670	700	
4/11/2002	81.71	9.00	0.00	72.71	-0.26	250	--	2.0	ND<0.50	38	2.2	410	--	
7/11/2002	81.71	9.60	0.00	72.11	-0.60	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
10/15/2002	81.71	10.60	0.00	71.11	-1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	
1/14/2003	81.71	8.63	0.00	73.08	1.97	--	ND<250	2.6	ND<2.5	18	ND<5.0	--	430	
4/16/2003	81.71	8.98	0.00	72.73	-0.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
7/16/2003	81.71	9.63	0.00	72.08	-0.65	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
10/2/2003	81.71	10.41	0.00	71.30	-0.78	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	78	
1/7/2004	81.71	8.21	0.00	73.50	2.20	--	ND<5000	ND<50	ND<50	ND<50	340	--	3700	
4/2/2004	81.71	8.51	0.00	73.20	-0.30	--	3000	ND<20	ND<20	ND<20	ND<40	--	5200	
7/29/2004	81.71	9.78	0.00	71.93	-1.27	--	3200	ND<25	ND<25	ND<25	ND<50	--	5500	
11/24/2004	81.71	10.19	0.00	71.52	-0.41	--	2100	ND<10	ND<10	ND<10	ND<20	--	2400	
1/24/2005	81.71	8.49	0.00	73.22	1.70	--	ND<2500	4.0	0.52	ND<0.50	29	--	1800	
6/23/2005	81.71	8.34	0.00	73.37	0.15	--	490	ND<0.50	ND<0.50	1.5	ND<1.0	--	980	
9/28/2005	81.71	9.61	0.00	72.10	-1.27	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	520	
12/20/2005	81.71	7.35	0.00	74.36	2.26	--	2700	ND<0.50	ND<0.50	78	82	--	86	
3/10/2006	81.71	6.63	0.00	75.08	0.72	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	51	
6/23/2006	81.71	6.56	0.00	75.15	0.07	--	3600	ND<0.50	ND<0.50	100	57	--	ND<0.50	
9/27/2006	81.71	9.64	0.00	72.07	-3.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	

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Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8 continued														
12/22/2006	81.71	9.42	0.00	72.29	0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.50	--	16	
3/23/2007	81.71	8.68	0.00	73.03	0.74	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	12	
6/29/2007	81.71	9.10	0.00	72.61	-0.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	17	
9/28/2007	81.71	9.89	0.00	71.82	-0.79	--	99	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	21	
12/17/2007	81.71	9.81	0.00	71.90	0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	
3/25/2008	81.71	8.40	0.00	73.31	1.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	14	
6/12/2008	81.71	9.53	0.00	72.18	-1.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	14	
9/25/2008	81.71	10.24	0.00	71.47	-0.71	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	
12/30/2008	81.71	9.72	0.00	71.99	0.52	--	50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.7	
3/24/2009	81.71	8.43	0.00	73.28	1.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.4	
6/23/2009	81.71	9.63	0.00	72.08	-1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.7	
12/16/2009	81.71	10.08	0.00	71.63	-0.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	
4/14/2010	81.71	8.28	0.00	73.43	1.80	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	
10/13/2010	84.86	10.79	0.00	74.07	0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.0	
5/27/2011	84.86	8.12	0.00	76.74	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
MW-9			**(Screen Interval in feet: --)**											
1/31/2002	82.07	14.72	0.00	67.35	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	680	910	
4/11/2002	82.07	14.85	0.00	67.22	-0.13	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	620	--	
7/11/2002	82.07	15.39	0.00	66.68	-0.54	--	580	ND<5.0	ND<5.0	ND<5.0	ND<10	--	580	
10/15/2002	82.07	16.16	0.00	65.91	-0.77	--	570	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1400	
1/14/2003	82.07	14.75	0.00	67.32	1.41	--	ND<200	ND<2.0	ND<2.0	ND<2.0	ND<4.0	--	220	
4/16/2003	82.07	14.51	0.00	67.56	0.24	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	860	
7/16/2003	82.07	15.54	0.00	66.53	-1.03	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	1300	

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Table 2

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November 1992 Through May 2011

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
10/2/2003	82.07	16.28	0.00	65.79	-0.74	--	820	ND<5.0	ND<5.0	ND<5.0	ND<10	--	990	
1/7/2004	82.07	14.65	0.00	67.42	1.63	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1200	
4/2/2004	82.07	15.08	0.00	66.99	-0.43	--	510	ND<5.0	ND<5.0	ND<5.0	ND<10	--	850	
7/29/2004	82.07	15.81	0.00	66.26	-0.73	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1300	
11/24/2004	82.07	16.25	0.00	65.82	-0.44	--	1100	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1300	
1/24/2005	82.07	14.96	0.00	67.11	1.29	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2300	
6/23/2005	82.07	14.40	0.00	67.67	0.56	--	1500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2000	
9/28/2005	82.07	15.67	0.00	66.40	-1.27	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	2400	
12/20/2005	82.07	14.61	0.00	67.46	1.06	--	560	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2800	
3/10/2006	82.07	13.39	0.00	68.68	1.22	--	1100	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2100	
6/23/2006	82.07	13.68	0.00	68.39	-0.29	--	1700	ND<12	ND<12	ND<12	ND<25	--	1700	
9/27/2006	82.07	14.83	0.00	67.24	-1.15	--	ND<1200	ND<12	ND<12	ND<12	ND<12	--	1400	
12/22/2006	82.07	14.75	0.00	67.32	0.08	--	680	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1100	
3/23/2007	82.07	14.52	0.00	67.55	0.23	--	240	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	660	
6/29/2007	82.07	14.89	0.00	67.18	-0.37	--	210	ND<0.50	ND<0.50	ND<0.50	0.52	--	410	
9/28/2007	82.07	15.48	0.00	66.59	-0.59	--	390	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	430	
12/17/2007	82.07	15.72	0.00	66.35	-0.24	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	480	
3/25/2008	82.07	14.91	0.00	67.16	0.81	--	250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	340	
6/12/2008	82.07	15.70	0.00	66.37	-0.79	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	270	
9/25/2008	82.07	16.48	0.00	65.59	-0.78	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
12/30/2008	82.07	16.16	0.00	65.91	0.32	--	160	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	230	
3/24/2009	82.07	15.23	0.00	66.84	0.93	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	180	
6/23/2009	82.07	15.95	0.00	66.12	-0.72	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	190	

Table 2

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November 1992 Through May 2011

76 Station 1871

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MW-9 continued														
12/16/2009	82.07	16.47	0.00	65.60	-0.52	--	86	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	130	
4/14/2010	82.07	14.68	0.00	67.39	1.79	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	160	
10/13/2010	85.18	16.80	0.00	68.38	0.99	--	63	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	160	
5/27/2011	85.18	15.37	0.00	69.81	1.43	--	59	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	70	
MW-10			**(Screen Interval in feet: –)**											
1/31/2002	74.98	8.02	0.00	66.96	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.2	
4/11/2002	74.98	7.60	0.00	67.38	0.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
7/11/2002	74.98	8.91	0.00	66.07	-1.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
10/15/2002	74.98	11.49	0.00	63.49	-2.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/14/2003	74.98	8.47	0.00	66.51	3.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
4/16/2003	74.98	7.92	0.00	67.06	0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
7/16/2003	74.98	7.03	0.00	67.95	0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/2/2003	74.98	7.63	0.00	67.35	-0.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/7/2004	74.98	6.22	0.00	68.76	1.41	--	54	ND<0.50	ND<0.50	1.3	4.5	--	ND<2.0	
4/2/2004	74.98	7.49	0.00	67.49	-1.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.0	
7/29/2004	74.98	7.41	0.00	67.57	0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/24/2004	74.98	7.55	0.00	67.43	-0.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.5	
1/24/2005	74.98	6.40	0.00	68.58	1.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.71	
6/23/2005	74.98	6.46	0.00	68.52	-0.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/28/2005	74.98	7.52	0.00	67.46	-1.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/20/2005	74.98	6.04	0.00	68.94	1.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.57	
3/10/2006	74.98	5.86	0.00	69.12	0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/23/2006	74.98	6.42	0.00	68.56	-0.56	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.50	

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10 continued														
9/27/2006	74.98	6.92	0.00	68.06	-0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	48	
12/22/2006	74.98	5.90	0.00	69.08	1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	8.5	
3/23/2007	74.98	6.48	0.00	68.50	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.54	
6/29/2007	74.98	6.78	0.00	68.20	-0.30	--	ND<50	ND<0.50	ND<0.50	0.76	1.6	--	5.6	
9/28/2007	74.98	7.24	0.00	67.74	-0.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	15	
12/17/2007	74.98	6.92	0.00	68.06	0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	
3/25/2008	74.98	6.74	0.00	68.24	0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.3	
6/12/2008	74.98	7.11	0.00	67.87	-0.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
9/25/2008	74.98	7.70	0.00	67.28	-0.59	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.8	
12/30/2008	74.98	6.73	0.00	68.25	0.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.80	
3/24/2009	74.98	6.41	0.00	68.57	0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/23/2009	74.98	7.07	0.00	67.91	-0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.60	
12/16/2009	74.98	6.59	0.00	68.39	0.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
4/14/2010	74.98	6.16	0.00	68.82	0.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
10/13/2010	78.18	7.64	0.00	70.54	1.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.58	
5/27/2011	78.18	6.62	0.00	71.56	1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-11			**(Screen Interval in feet: --)**											
1/31/2002	77.31	11.71	0.00	65.60	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
4/11/2002	77.31	11.95	0.00	65.36	-0.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
7/11/2002	77.31	12.79	0.00	64.52	-0.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
10/15/2002	77.31	13.67	0.00	63.64	-0.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/14/2003	77.31	13.31	0.00	64.00	0.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
4/16/2003	77.31	14.08	0.00	63.23	-0.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-11 continued														
7/16/2003	77.31	12.98	0.00	64.33	1.10	--	65	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/2/2003	77.31	12.96	0.00	64.35	0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/7/2004	77.31	16.20	0.00	61.11	-3.24	--	63	ND<0.50	ND<0.50	0.68	2.2	--	ND<2.0	
4/2/2004	77.31	18.01	0.00	59.30	-1.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/29/2004	77.31	14.39	0.00	62.92	3.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/24/2004	77.31	16.72	0.00	60.59	-2.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/24/2005	77.31	17.44	0.00	59.87	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/23/2005	77.31	12.37	0.00	64.94	5.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/28/2005	77.31	16.78	0.00	60.53	-4.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/20/2005	77.31	17.06	0.00	60.25	-0.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/10/2006	77.31	16.20	0.00	61.11	0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/23/2006	77.31	12.65	0.00	64.66	3.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2006	77.31	14.78	0.00	62.53	-2.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/22/2006	77.31	13.48	0.00	63.83	1.30	--	55	ND<0.50	ND<0.50	2.1	5.4	--	ND<0.50	
3/23/2007	77.31	13.78	0.00	63.53	-0.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/29/2007	77.31	15.58	0.00	61.73	-1.80	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.62	--	ND<0.50	
9/28/2007	77.31	16.02	0.00	61.29	-0.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/17/2007	77.31	15.75	0.00	61.56	0.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.0	--	ND<0.50	
3/25/2008	77.31	15.74	0.00	61.57	0.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/12/2008	77.31	13.87	0.00	63.44	1.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/25/2008	77.31	16.30	0.00	61.01	-2.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/2008	77.31	15.82	0.00	61.49	0.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/24/2009	77.31	15.58	0.00	61.73	0.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through May 2011

76 Station 1871

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-11 continued														
6/23/2009	77.31	13.98	0.00	63.33	1.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/16/2009	77.31	15.03	0.00	62.28	-1.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
4/14/2010	77.31	15.48	0.00	61.83	-0.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
10/13/2010	80.44	15.15	0.00	65.29	3.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/27/2011	80.44	15.60	0.00	64.84	-0.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-1												
6/18/1999	--	ND	ND	ND	--	ND	ND	ND	--	--	--	--
7/16/2001	--	ND	ND	ND	--	ND	ND	ND	--	--	--	--
1/14/2003	--	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
7/16/2003	--	--	ND<10000	--	--	--	--	--	--	--	--	--
10/2/2003	--	--	ND<25000	--	--	--	--	--	--	25.1	45.7	80.1
1/7/2004	--	--	ND<20000	--	--	--	--	--	--	12.12	12.31	142
4/2/2004	--	--	ND<50	--	--	--	--	--	--	11.33	13.42	36
7/29/2004	--	--	ND<2000	--	--	--	--	--	--	5.37	5.51	-2
11/24/2004	--	--	ND<2000	--	--	--	--	--	6.58	3.08	4.73	-43
1/24/2005	--	--	ND<2000	--	--	--	--	--	--	14.3	17.0	100
6/23/2005	--	--	ND<50000	--	--	--	--	--	--	--	4.79	-103
9/28/2005	--	--	ND<1000	--	--	--	--	--	--	3.45	4.73	-91
12/20/2005	--	--	ND<250	--	--	--	--	--	--	4.16	2.76	-210
3/10/2006	--	--	ND<2500	--	--	--	--	--	--	1.45	1.64	-511
6/23/2006	--	--	ND<2500	--	--	--	--	--	--	--	4.31	-030
9/27/2006	--	--	ND<5000	--	--	--	--	--	--	4.50	4.72	-32
12/22/2006	--	--	ND<2500	--	--	--	--	--	--	6.80	2.35	-121
3/23/2007	--	--	ND<1200	--	--	--	--	--	--	3.22	3.45	-135
6/29/2007	--	--	ND<1200	--	--	--	--	--	--	6.64	7.11	-131
9/28/2007	--	--	ND<250	--	--	--	--	--	--	--	7.84	-167
12/17/2007	--	--	ND<2500	--	--	--	--	--	--	9.74	6.51	-63
3/25/2008	--	--	ND<1200	--	--	--	--	--	--	6.70	6.50	-60
6/12/2008	--	330	ND<1200	--	--	--	--	--	--	--	4.33	65
9/25/2008	--	740	ND<250	--	--	--	--	--	--	--	1.16	105
12/30/2008	--	400	ND<250	--	--	--	--	--	--	2.44	0.91	0

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-1 continued												
3/24/2009	--	390	ND<250	--	--	--	--	--	--	1.60	1.31	-29
6/23/2009	--	500	ND<1200	--	--	--	--	--	--	--	0.86	-28
12/16/2009	--	ND<20	ND<500	--	--	--	--	--	--	0.66	--	--
4/14/2010	--	500	ND<500	--	--	--	--	--	--	2.48	--	--
10/13/2010	--	73	ND<250	ND<0.50	ND<0.50	--	--	--	--	2.00	--	--
5/27/2011	--	ND<50	ND<1200	ND<2.5	ND<2.5	--	--	--	--	0.37	--	--
MW-4												
4/18/1996	110	--	--	--	--	--	--	--	--	--	--	--
7/24/1996	ND	--	--	--	--	--	--	--	--	--	--	--
10/24/1996	ND	--	--	--	--	--	--	--	--	--	--	--
1/28/1997	210	--	--	--	--	--	--	--	--	--	--	--
7/29/1997	ND	--	--	--	--	--	--	--	--	--	--	--
1/14/1998	ND	--	--	--	--	--	--	--	--	--	--	--
7/1/1998	ND	--	--	--	--	--	--	--	--	--	--	--
MW-6												
6/18/1999	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
7/16/2001	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
7/11/2002	--	ND<1000	ND<5000	ND<100	ND<100	ND<200	ND<100	ND<100	--	--	--	--
1/14/2003	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
7/16/2003	--	--	ND<500	--	--	--	--	--	--	--	--	--
10/2/2003	--	--	ND<1000	--	--	--	--	--	--	15.5	26.2	139
1/7/2004	--	--	ND<1000	--	--	--	--	--	--	12.63	14.29	-12
4/2/2004	--	--	ND<2000	--	--	--	--	--	--	12.63	12.72	9
7/29/2004	--	--	ND<100	--	--	--	--	--	--	4.74	4.79	-19
11/24/2004	--	--	ND<50	--	--	--	--	--	6.99	2.81	5.54	-29

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-6 continued												
1/24/2005	--	--	ND<50	--	--	--	--	--	--	14.5	15.3	72
6/23/2005	--	--	ND<1000	--	--	--	--	--	--	1.86	1.73	70
9/28/2005	--	--	ND<1000	--	--	--	--	--	--	2.63	2.57	-74
12/20/2005	--	--	ND<250	--	--	--	--	--	--	1.52	2.30	-280
3/10/2006	--	--	ND<250	--	--	--	--	--	--	5.25	0.80	173
6/23/2006	--	--	ND<6200	--	--	--	--	--	--	--	3.39	-105
9/27/2006	--	--	ND<6200	--	--	--	--	--	--	2.54	3.01	-109
12/22/2006	--	--	ND<5000	--	--	--	--	--	--	1.22	4.03	-46
3/23/2007	--	--	ND<250	--	--	--	--	--	--	3.64	3.62	-101
6/29/2007	--	--	ND<250	--	--	--	--	--	--	8.49	6.78	171
9/28/2007	--	--	ND<250	--	--	--	--	--	--	8.36	8.40	167
12/17/2007	--	--	ND<250	--	--	--	--	--	--	10.19	9.38	-23
3/25/2008	--	--	ND<250	--	--	--	--	--	--	10.03	10.10	-20
6/12/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	0.80	30
9/25/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	1.05	118
12/30/2008	--	ND<10	ND<250	--	--	--	--	--	--	4.50	1.62	14
3/24/2009	--	ND<10	ND<250	--	--	--	--	--	--	1.79	1.87	104
6/23/2009	--	ND<10	ND<250	--	--	--	--	--	--	1.96	2.12	64
12/16/2009	--	ND<10	ND<250	--	--	--	--	--	--	1.55	--	--
4/14/2010	--	ND<10	ND<250	--	--	--	--	--	--	3.19	--	--
10/13/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	6.40	--	--
5/27/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	0.61	--	--
MW-7												
6/18/1999	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
7/16/2001	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-7 continued												
1/14/2003	--	ND<50000	ND<250000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	--	--	--
7/16/2003	--	--	ND<250000	--	--	--	--	--	--	--	--	--
10/2/2003	--	--	ND<100000	--	--	--	--	--	--	24.3	28.2	109
1/7/2004	--	--	ND<200000	--	--	--	--	--	--	10.79	10.85	23
4/2/2004	--	--	ND<2000	--	--	--	--	--	--	12.41	11.32	24
7/29/2004	--	--	ND<5000	--	--	--	--	--	--	4.10	3.96	17
11/24/2004	--	--	ND<5000	--	--	--	--	--	6.60	1.99	3.29	-43
1/24/2005	--	--	ND<5000	--	--	--	--	--	--	17.2	14.5	71
6/23/2005	--	--	ND<50000	--	--	--	--	--	--	2.84	2.18	-37
9/28/2005	--	--	ND<1000	--	--	--	--	--	--	3.45	3.63	-81
12/20/2005	--	--	ND<250	--	--	--	--	--	--	2.04	2.03	-263
3/10/2006	--	--	ND<250	--	--	--	--	--	--	1.28	0.95	164
6/23/2006	--	--	ND<6200	--	--	--	--	--	--	--	3.95	-119
9/27/2006	--	--	ND<6200	--	--	--	--	--	--	3.16	3.98	-107
12/22/2006	--	--	ND<25000	--	--	--	--	--	--	2.25	2.03	-86
3/23/2007	--	--	ND<250	--	--	--	--	--	--	3.38	3.75	-49
9/28/2007	--	--	ND<250	--	--	--	--	--	--	8.16	7.96	30
12/19/2007	--	--	ND<250	--	--	--	--	--	--	6.70	6.72	-17
3/25/2008	--	--	ND<250	--	--	--	--	--	--	4.77	4.81	-30
6/12/2008	--	30	ND<250	--	--	--	--	--	--	--	3.96	55
9/25/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	1.11	115
12/30/2008	--	ND<10	ND<250	--	--	--	--	--	--	4.13	1.81	-14
3/24/2009	--	ND<10	ND<250	--	--	--	--	--	--	2.70	2.39	159
6/23/2009	--	16	ND<250	--	--	--	--	--	--	0.42	0.84	-8
12/16/2009	--	ND<10	ND<250	--	--	--	--	--	--	1.08	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-7 continued												
4/14/2010	--	ND<10	ND<250	--	--	--	--	--	--	0.78	--	--
10/13/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	6.50	--	--
5/27/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	0.48	--	--
MW-8												
6/18/1999	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
7/16/2001	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
1/14/2003	--	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--
7/16/2003	--	--	ND<500	--	--	--	--	--	--	--	--	--
10/2/2003	--	--	ND<500	--	--	--	--	--	--	23.6	28.5	188
1/7/2004	--	--	ND<50000	--	--	--	--	--	--	9.94	13.13	-15
4/2/2004	--	--	ND<2000	--	--	--	--	--	--	13.37	12.82	-10
7/29/2004	--	--	ND<2500	--	--	--	--	--	--	3.68	3.73	18
11/24/2004	--	--	ND<1000	--	--	--	--	--	6.67	3.97	2.71	-36
1/24/2005	--	--	ND<2500	--	--	--	--	--	--	41.6	41.2	56
6/23/2005	--	--	ND<1000	--	--	--	--	--	--	2.05	2.13	58
9/28/2005	--	--	ND<1000	--	--	--	--	--	--	2.12	1.98	-40
12/20/2005	--	--	ND<250	--	--	--	--	--	--	2.02	3.72	-402
3/10/2006	--	--	ND<250	--	--	--	--	--	--	1.51	0.99	-182
6/23/2006	--	--	ND<250	--	--	--	--	--	--	--	2.81	-135
9/27/2006	--	--	ND<250	--	--	--	--	--	--	4.87	4.91	-155
12/22/2006	--	--	ND<250	--	--	--	--	--	--	1.80	2.40	16
3/23/2007	--	--	ND<250	--	--	--	--	--	--	3.52	3.90	25
6/29/2007	--	--	ND<250	--	--	--	--	--	--	5.35	5.29	98
9/28/2007	--	--	ND<250	--	--	--	--	--	--	7.18	7.24	16
12/17/2007	--	--	ND<250	--	--	--	--	--	--	6.95	5.26	26

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-8 continued												
3/25/2008	--	--	ND<250	--	--	--	--	--	--	5.22	5.15	70
6/12/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	9.40	38
9/25/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	1.33	98
12/30/2008	--	ND<10	ND<250	--	--	--	--	--	--	1.78	2.19	11
3/24/2009	--	ND<10	ND<250	--	--	--	--	--	--	2.07	1.87	103
6/23/2009	--	ND<10	ND<250	--	--	--	--	--	--	0.55	0.90	73
12/16/2009	--	ND<10	ND<250	--	--	--	--	--	--	1.24	--	--
4/14/2010	--	ND<10	ND<250	--	--	--	--	--	--	0.92	--	--
10/13/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	0.70	--	--
5/27/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	0.48	--	--
MW-9												
1/31/2002	--	ND<140	ND<3600	ND<7.1	ND<7.1	ND<7.1	ND<7.1	ND<7.1	--	--	--	--
1/14/2003	--	ND<400	ND<2000	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	--	--	--	--
7/16/2003	--	--	ND<25000	--	--	--	--	--	--	--	--	--
10/2/2003	--	--	ND<5000	--	--	--	--	--	--	29.5	28.4	201
1/7/2004	--	--	ND<10000	--	--	--	--	--	--	10.45	12.00	9
4/2/2004	--	--	ND<500	--	--	--	--	--	--	16.37	13.21	12
7/29/2004	--	--	ND<1000	--	--	--	--	--	--	--	--	--
11/24/2004	--	--	ND<500	--	--	--	--	--	6.47	3.24	1.71	-68
1/24/2005	--	--	ND<1000	--	--	--	--	--	--	26.0	22.5	-45
6/23/2005	--	--	ND<10000	--	--	--	--	--	--	1.50	1.44	-136
9/28/2005	--	--	ND<50000	--	--	--	--	--	--	2.51	1.67	-94
12/20/2005	--	--	ND<250	--	--	--	--	--	--	5.05	4.67	-102
3/10/2006	--	--	ND<2500	--	--	--	--	--	--	2.82	2.13	160
6/23/2006	--	--	ND<6200	--	--	--	--	--	--	--	0.84	-65

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-9 continued												
9/27/2006	--	--	ND<6200	--	--	--	--	--	--	0.68	0.75	-61
12/22/2006	--	--	ND<250	--	--	--	--	--	--	9.00	4.89	-44
3/23/2007	--	--	ND<250	--	--	--	--	--	--	6.85	5.33	-114
6/29/2007	--	--	ND<250	--	--	--	--	--	--	6.87	6.25	23
9/28/2007	--	--	ND<1200	--	--	--	--	--	--	7.17	7.04	30
12/17/2007	--	--	ND<250	--	--	--	--	--	--	5.05	4.81	-27
3/25/2008	--	--	ND<1200	--	--	--	--	--	--	6.55	6.67	-10
6/12/2008	--	250	ND<250	--	--	--	--	--	--	--	2.55	86
9/25/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	1.44	26
12/30/2008	--	21	ND<250	--	--	--	--	--	--	5.47	5.43	52
3/24/2009	--	24	ND<250	--	--	--	--	--	--	2.80	2.69	66
6/23/2009	--	14	ND<250	--	--	--	--	--	--	1.88	1.42	-20
12/16/2009	--	22	ND<250	--	--	--	--	--	--	0.99	--	--
4/14/2010	--	ND<10	ND<250	--	--	--	--	--	--	1.41	--	--
10/13/2010	--	11	ND<250	ND<0.50	ND<0.50	--	--	--	--	1.08	--	--
5/27/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	1.51	--	--
MW-10												
1/31/2002	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
1/14/2003	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--
7/16/2003	--	--	ND<500	--	--	--	--	--	--	--	--	--
10/2/2003	--	--	ND<500	--	--	--	--	--	--	24.8	25.7	192
1/7/2004	--	--	ND<500	--	--	--	--	--	--	10.04	11.62	35
4/2/2004	--	--	ND<50	--	--	--	--	--	--	11.91	12.02	42
7/29/2004	--	--	ND<50	--	--	--	--	--	--	4.81	4.83	83
11/24/2004	--	--	ND<50	--	--	--	--	--	6.89	2.59	3.07	-39

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-10 continued												
1/24/2005	--	--	ND<50	--	--	--	--	--	--	27.5	25.5	87
6/23/2005	--	--	ND<1000	--	--	--	--	--	--	7.83	176	40
9/28/2005	--	--	ND<1000	--	--	--	--	--	--	6.95	2.37	-66
12/20/2005	--	--	ND<250	--	--	--	--	--	--	3.85	3.45	59
3/10/2006	--	--	ND<250	--	--	--	--	--	--	2.52	4.48	87
6/23/2006	--	--	ND<250	--	--	--	--	--	--	--	1.49	-68
9/27/2006	--	--	ND<250	--	--	--	--	--	--	1.79	1.55	-85
12/22/2006	--	--	ND<250	--	--	--	--	--	--	3.20	3.00	107
3/23/2007	--	--	ND<250	--	--	--	--	--	--	5.09	5.01	-60
6/29/2007	--	--	ND<250	--	--	--	--	--	--	9.12	6.27	165
9/28/2007	--	--	ND<250	--	--	--	--	--	--	8.34	8.21	124
12/17/2007	--	--	ND<250	--	--	--	--	--	--	4.97	4.46	-15
3/25/2008	--	--	ND<250	--	--	--	--	--	--	4.35	4.40	-10
6/12/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	1.42	75
9/25/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	52.15	94
12/30/2008	--	ND<10	ND<250	--	--	--	--	--	--	5.89	3.18	181
3/24/2009	--	ND<10	ND<250	--	--	--	--	--	--	4.37	4.07	144
6/23/2009	--	ND<10	ND<250	--	--	--	--	--	--	3.17	1.64	57
12/16/2009	--	ND<10	ND<250	--	--	--	--	--	--	3.31	--	--
4/14/2010	--	ND<10	ND<250	--	--	--	--	--	--	1.61	--	--
10/13/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	6.67	--	--
5/27/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	1.52	--	--
MW-11												
1/31/2002	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--
1/14/2003	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-11 continued												
7/16/2003	--	--	ND<500	--	--	--	--	--	--	--	--	--
10/2/2003	--	--	ND<500	--	--	--	--	--	--	33.7	23.2	202
1/7/2004	--	--	ND<500	--	--	--	--	--	--	11.69	13.82	99
4/2/2004	--	--	ND<50	--	--	--	--	--	--	11.94	14.08	-1
7/29/2004	--	--	ND<50	--	--	--	--	--	--	--	--	--
11/24/2004	--	--	ND<50	--	--	--	--	--	6.75	3.85	4.32	82
1/24/2005	--	--	ND<50	--	--	--	--	--	--	30.01	32.6	79
6/23/2005	--	--	ND<1000	--	--	--	--	--	--	2.17	2.16	76
9/28/2005	--	--	ND<1000	--	--	--	--	--	--	4.97	4.59	-4
12/20/2005	--	--	ND<250	--	--	--	--	--	--	5.16	4.77	35
3/10/2006	--	--	ND<250	--	--	--	--	--	--	5.11	9.99	68
6/23/2006	--	--	ND<250	--	--	--	--	--	--	--	7.74	-26
9/27/2006	--	--	ND<250	--	--	--	--	--	--	5.72	5.98	32
12/22/2006	--	--	ND<250	--	--	--	--	--	--	3.81	4.35	46
3/23/2007	--	--	ND<250	--	--	--	--	--	--	5.47	5.85	38
6/29/2007	--	--	ND<250	--	--	--	--	--	--	7.87	7.80	242
9/28/2007	--	--	ND<250	--	--	--	--	--	--	7.24	7.30	280
12/17/2007	--	--	ND<250	--	--	--	--	--	--	8.71	8.01	47
3/25/2008	--	--	ND<250	--	--	--	--	--	--	8.41	8.40	45
6/12/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	3.33	160
9/25/2008	--	ND<10	ND<250	--	--	--	--	--	--	--	4.28	115
12/30/2008	--	ND<10	ND<250	--	--	--	--	--	--	2.74	2.67	195
3/24/2009	--	ND<10	ND<250	--	--	--	--	--	--	2.27	2.20	185
6/23/2009	--	ND<10	ND<250	--	--	--	--	--	--	3.62	4.14	67
12/16/2009	--	ND<10	ND<250	--	--	--	--	--	--	4.62	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	pH (lab) (pH)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-11 continued												
4/14/2010	--	ND<10	ND<250	--	--	--	--	--	--	4.15	--	--
10/13/2010	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	2.21	--	--
5/27/2011	--	ND<10	ND<250	ND<0.50	ND<0.50	--	--	--	--	3.11	--	--

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	Post-purge ORP (mV)
MW-1	
10/2/2003	21.0
1/7/2004	24
4/2/2004	34
7/29/2004	-4
11/24/2004	-39
1/24/2005	96
9/28/2005	-94
12/20/2005	-328
3/10/2006	-615
9/27/2006	-25
12/22/2006	-72
3/23/2007	-141
6/29/2007	-65
12/17/2007	-46
3/25/2008	-64
12/30/2008	-2
3/24/2009	-32
12/16/2009	38
4/14/2010	55
10/13/2010	-48
5/27/2011	-19
MW-6	
10/2/2003	175
1/7/2004	24
4/2/2004	23

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	Post-purge ORP (mV)
MW-6 continued	
7/29/2004	-8
11/24/2004	-12
1/24/2005	70
6/23/2005	71
9/28/2005	-80
12/20/2005	-217
3/10/2006	224
9/27/2006	-104
12/22/2006	-67
3/23/2007	-92
6/29/2007	84
9/28/2007	154
12/17/2007	-14
3/25/2008	-18
12/30/2008	8
3/24/2009	91
6/23/2009	79
12/16/2009	116
4/14/2010	108
10/13/2010	129
5/27/2011	199
MW-7	
10/2/2003	153
1/7/2004	5
4/2/2004	10

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	Post-purge ORP (mV)
MW-7 continued	
7/29/2004	18
11/24/2004	-24
1/24/2005	48
6/23/2005	-32
9/28/2005	-85
12/20/2005	-256
3/10/2006	-179
9/27/2006	-95
12/22/2006	-101
3/23/2007	-47
9/28/2007	26
12/19/2007	-13
3/25/2008	-34
12/30/2008	-19
3/24/2009	138
6/23/2009	-33
12/16/2009	118
4/14/2010	112
10/13/2010	44
5/27/2011	145
MW-8	
10/2/2003	197
1/7/2004	21
4/2/2004	16
7/29/2004	30

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	Post-purge ORP (mV)
MW-8 continued	
11/24/2004	-20
1/24/2005	60
6/23/2005	56
9/28/2005	-26
12/20/2005	-326
3/10/2006	-181
9/27/2006	-139
12/22/2006	12
3/23/2007	22
6/29/2007	92
9/28/2007	22
12/17/2007	24
3/25/2008	77
12/30/2008	14
3/24/2009	109
6/23/2009	55
12/16/2009	75
4/14/2010	120
10/13/2010	92
5/27/2011	209
MW-9	
10/2/2003	203
1/7/2004	27
4/2/2004	32
11/24/2004	-67

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	Post-purge ORP (mV)
MW-9 continued	
1/24/2005	-45
6/23/2005	-144
9/28/2005	-119
12/20/2005	-42
3/10/2006	161
9/27/2006	-43
12/22/2006	-70
3/23/2007	-82
6/29/2007	22
9/28/2007	30
12/17/2007	-35
3/25/2008	-14
12/30/2008	38
3/24/2009	58
6/23/2009	-30
12/16/2009	102
4/14/2010	49
10/13/2010	114
5/27/2011	95
MW-10	
10/2/2003	213
1/7/2004	59
4/2/2004	45
7/29/2004	102
11/24/2004	-29

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	Post-purge ORP (mV)
MW-10 continued	
1/24/2005	84
6/23/2005	44
9/28/2005	-64
12/20/2005	58
3/10/2006	83
9/27/2006	-65
12/22/2006	85
6/29/2007	172
9/28/2007	126
12/17/2007	-2
3/25/2008	-12
12/30/2008	184
3/24/2009	160
6/23/2009	68
12/16/2009	118
4/14/2010	112
10/13/2010	147
5/27/2011	192
MW-11	
10/2/2003	255
1/7/2004	103
4/2/2004	108
11/24/2004	143
1/24/2005	83
6/23/2005	82

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	Post-purge ORP (mV)
MW-11 continued	
9/28/2005	-1
12/20/2005	070
3/10/2006	97
9/27/2006	40
12/22/2006	44
3/23/2007	34
6/29/2007	223
9/28/2007	244
12/17/2007	46
3/25/2008	44
12/30/2008	195
3/24/2009	190
6/23/2009	67
12/16/2009	160
4/14/2010	143
10/13/2010	133
5/27/2011	205

ATTACHMENT D

OZONE INJECTION SYSTEM O & M REPORT

environ strategy consultants, inc.

1036 W. Taft Avenue
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September 14, 2012

Tina Hariu
Conestoga-Rovers & Associates (CRA)
5900 Hollis Street, Suite A
Emeryville, CA 94608

Project No. 696-A

Third Quarter 2012
Ozone Injection System O&M Report
76 Service Station No. 1871 (351644)
96 MacArthur Boulevard
Oakland, California

Dear Ms. Hariu:

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California, Environ Strategy Consultants Inc. (Environ Strategy) is pleased to submit this Ozone Injection System Operation and Maintenance (O&M) Report for 76 Service Station No. 1871, located at 96 MacArthur Boulevard, Oakland, California (Figure 1). An ozone injection system was started on June 23, 2003 to remediate hydrocarbon-impacted groundwater (Table 1). Wells MW-1 and MW-7 are monitored as indicators of ozone injection system performance (Table 2).

Environ Strategy appreciates the opportunity to be of service. If you have any questions or require additional information regarding this report, please do not hesitate to contact us at (714) 919-6525, or by email at dnygaard@environstrategy.com.

Respectfully submitted,

Dane Nygaard
Project Manager

Jinghui Niu, P.E.
Principal Engineer

Third Quarter 2012 O&M Report
76 Service Station No. 1871 (351644)
September 14, 2012

Ozone Injection System

KVA Ozone Injection System

Reporting Period: June 1, 2012 – August 31, 2012

Days of Operation: Operated 92 days during the period

Hours of Operation: 2,260

System Operation Data Since Startup on June 23, 2003:

Total Hours of Operation: 54,920

Notes: Third Quarter 2012 – Period hours includes dates May 28, 2012 to August 30, 2012.

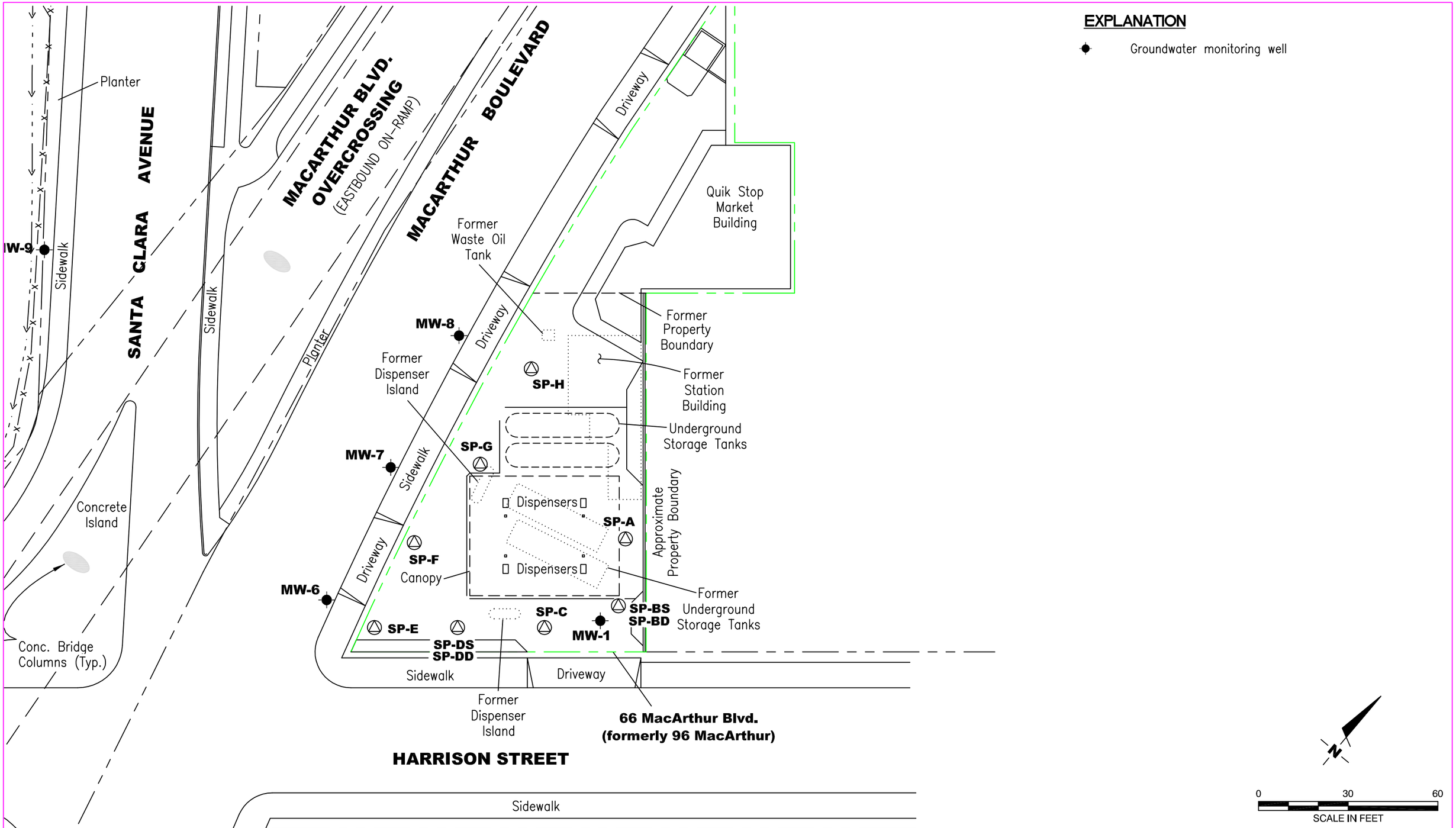
Attachments: Figure - Site Plan

Table 1 - Ozone Injection - System Operation Data
Table 2 - Ozone Injection - Groundwater Monitoring Data

Graph 1 - MW-1 TPHg, Benzene, and MTBE Groundwater Concentrations
Graph 2 - MW-7 TPHg, Benzene, and MTBE Groundwater Concentrations

Appendix A - Field Notes

Figure



Source: Caltrans As-Built Plans and Right of Way Maps confirmed by field observations

DRAWN BY:	MD
CHECKED:	AD
APPROVED:	RB
DATE:	3/22/04 PR
JOB NO.:	77CP.60004.01
CAD FILE:	SITEPLAN

PREPARED BY:
environ strategy consultants, inc.
1036 W. TAFT AVE, SUITE 200
ORANGE, CA 92865

PREPARED FOR:
76 STATION #1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

FIGURE 1
SITE PLAN

20111219.1121051 X:\ConocoPhillips O&M\Site Plans\Revised O&M AutoCAD files 8-16-11\1871 SITE PLAN.dwg

Tables

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California

		OZONE SPARGE SYSTEM						SP-A	SP-BS	SP-BD	SP-C	SP-DS	SP-DD	SP-E	SP-F	SP-G	SP-H
		System Status (On/Off)		Hourmeter	Period Online	Cumulative	Ozone Injected	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure
Date	**Notes**	Arrival	Departure	Reading	Factor	Online Factor	(lbs)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)
6/23/03		On	On	8807.26	--	0.95	--	20	18	19	20	21	23	20	26	14	26
7/16/03		**Off**	On	8850.46	0.09	0.91	0.39	27	18	31	40	28	29	31	38	24	25
8/30/03		On	On	9180.61	0.35	0.86	2.97	17	15	17	19	19	19	20	26	19	26
9/18/03		On	On	9327.43	0.37	0.84	1.32	13.5	14.7	17.0	16.3	16.0	19.7	16.8	19.8	15.7	20
10/16/03		On	On	--	--	0.84	--	27.0	19.5	40.8	39.0	40.8	38.5	34.2	46.4	24.2	39.8
11/17/03		On	On	9696.55	0.29	0.81	--	11.0	20.0	17.0	18.0	17.5	17.0	16.0	21.0	51.0	22.0
12/5/03		On	On	9804.98	0.29	0.80	0.98	33.0	21.0	44.0	40.0	43.0	39.0	33.5	44.0	26.0	33.0
1/16/04		On	On	10471.28	0.76	0.79	6.00	12.5	11.0	18.5	16.5	17.5	17.0	16.0	20.0	16.0	20.0
2/3/04		On	On	10727.69	0.68	0.79	2.31	12.3	11.5	18.2	16.5	18.2	17.3	16.0	19.0	16.0	18.2
3/24/04		On	On	11424.95	0.66	0.78	6.28	31.0	18.3	37.5	26.0	34.0	33.2	32.3	41.5	23.0	31.0
4/14/04		On	On	11676.10	0.57	0.77	2.26	32.0	19.0	38.7	26.0	37.7	37.1	32.8	41.8	23.8	29.5
4/15/04	a	On	On	11685.29	0.44	0.77	0.08	--	--	--	--	--	--	--	--	--	--
4/16/04	a	On	On	11693.80	0.41	0.77	0.08	--	--	--	--	--	--	--	--	--	--
4/19/04	a	On	On	11742.90	0.78	0.77	0.44	--	--	--	--	--	--	--	--	--	--
4/23/04	a	On	On	11773.10	0.36	0.77	0.27	--	--	--	--	--	--	--	--	--	--
5/4/04		**Off**	On	11837.70	0.28	0.76	0.58	32.2	20.5	39.4	36.2	38.1	32.0	33.5	60.0	25.8	33.1
5/11/04		On	On	11950.51	0.77	0.76	1.02	32.5	20.0	38.5	29.8	38.8	39.5	34.8	60.0	23.5	35.9
6/14/04	b,c	On	On	12464.64	0.72	0.76	4.63	20.0	21.0	38.8	27.2	37.0	38.2	35.2	60.0	24.0	32.1
7/29/04	d	On	On	844.62	0.99	0.77	7.60	22	15	--	26	35	34	35	--	25	33
8/12/04	e	On	On	1075.97	0.98	0.78	2.08	--	--	--	--	--	--	--	--	--	--
9/10/04		On	On	1490.23	0.85	0.78	3.73	32	32	33	33	21	24	30	20	26	30
10/5/04		On	On	1868.83	0.90	0.78	3.41	31	32	33	31	22	23	31	21	26	28
11/5/04		On	On	2360.90	0.93	0.79	4.43	22	26	12	18	12	22	30	32	26	22
12/2/04	f	**Off**	**Off**	2802.02	0.97	0.79	3.97	--	--	--	--	--	--	--	--	--	--
1/13/05		**Off**	On	2802.07	0.00	0.76	0.00	23	27	15	20	15	23	31	34	28	25
2/25/05	g	**Off**	**Off**	2802.42	0.00	0.73	0.00	--	--	--	--	--	--	--	--	--	--
3/8/05	h,i	**Off**	**Off**	2802.42	0.00	0.72	0.00	--	--	--	--	--	--	--	--	--	--
4/5/05	i	**Off**	**Off**	2802.42	0.00	0.70	0.00	--	--	--	--	--	--	--	--	--	--
5/4/05	j	**Off**	On	2802.49	0.00	0.69	0.00	14	11	16	12	20	27	25	29	25	31
6/2/05	k	On	On	3407.97	1.00	0.69	5.45	35	25	**Off**	40	41	36	35	34	27	25
7/7/05	k,l,m	On	On	4067.42	1.29	0.71	5.94	31	23	**Off**	30	**Off**	26	32	28	25	**Off**
8/26/05	n	On	On	4665.98	0.81	0.72	5.39	13	13	**Off**	14	**Off**	13	12	12	13	**Off**
9/23/05	o	On	On	4947.97	0.69	0.71	2.54	16	15	**Off**	**Off**	**Off**	16	16	16	16	**Off**
10/23/05	p	On	On	5264.28	0.72	0.71	2.85	16	16	**Off**	**Off**	**Off**	16	16	16	16	**Off**
11/11/05	q,r	On	**Off**	0.90	--	0.71	--	--	--	**--**	**--**	**--**	--	--	--	--	**--**
11/15/05	s	**Off**	On	0.90	0.00	0.71	0.00	35	16	16	22	23	18	23	23	23	24
12/6/05	t	**Off**	On	2.49	0.00	0.70	0.01	22	20	19	24	24	22	26	23	24	25
1/4/06	u	**Off**	On	6	0.01	0.69	0.03	20	20	18	17	23	20	25	19	22	20
1/18/06	u	**Off**	On	203	0.67	0.69	1.77	22	19	19	20	19	18	21	22	22	23
2/1/06	v	**Off**	On	316	0.38	0.68	1.02	20	20	18	22	22	18	23	23	22	25
2/15/06	v	**Off**	On	344	0.10	0.68	0.25	20	19	18	17	19	20	23	19	22	20
3/1/06	v	**Off**	On	417	0.25	0.67	0.66	21	20	19	19	21	17	24	23	21	21
3/16/06	u	**Off**	On	501	0.27	0.67	0.76	20	19	18	17	19	20	23	20	22	20
3/29/06	u	**Off**	On	560	0.22	0.67	0.53	20	20	19	19	20	21	25	21	22	21
4/16/06	u	**Off**	On	624	0.17	0.66	0.58	20	19	18	17	19	20	23	20	23	21
4/25/06	u	**Off**	On	718	0.50	0.66	0.85	20	20	19	18	20	22	24	21	22	20

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California

		OZONE SPARGE SYSTEM						SP-A	SP-BS	SP-BD	SP-C	SP-DS	SP-DD	SP-E	SP-F	SP-G	SP-H
		System Status (On/Off)		Hourmeter	Period Online	Cumulative	Ozone Injected	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure
Date	**Notes**	Arrival	Departure	Reading	Factor	Online Factor	(lbs)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)
5/9/06	u	**Off**	On	776	0.20	0.65	0.52	20	19	19	17	19	21	22	20	22	20
5/23/06	u	**Off**	On	834	0.20	0.65	0.52	19	20	18	18	20	20	23	20	23	21
6/6/06	u	**Off**	On	1,042	0.71	0.65	1.87	20	19	18	17	19	20	23	20	22	20
6/20/06	w	**Off**	On	1,206	0.56	0.65	1.48	19	20	18	18	19	20	25	21	23	21
7/7/06	x	**Off**	**Off**	1,313	0.30	0.65	0.96	--	--	**--**	**--**	**--**	--	--	--	--	**--**
7/28/06	y	**Off**	On	1,313	0.00	0.64	0.00	19	17	16	19	24	17	22	19	21	23
8/15/06	u	**Off**	On	1,616	0.80	0.64	2.73	19	17	17	16	19	19	23	19	21	21
8/29/06	u	**Off**	On	1,801	0.63	0.64	1.67	19	19	17	17	21	18	21	19	22	23
9/12/06	u	**Off**	On	2,022	0.75	0.64	1.99	23	19	17	16	19	19	25	19	22	21
9/22/06	u	**Off**	On	2,204	0.87	0.64	1.64	21	21	19	20	23	21	26	23	25	27
10/4/06	u	**Off**	On	2,313	0.43	0.64	0.98	18	18	17	18	18	18	25	23	22	21
10/18/06	u	**Off**	On	2,401	0.30	0.64	0.79	20	19	17	16	18	19	20	20	21	27
10/31/06	w	**Off**	On	2,516	0.42	0.63	1.04	22	20	19	20	19	19	23	21	25	23
11/14/06	u	**Off**	On	2,636	0.41	0.63	1.08	18	18	17	17	18	18	22	24	22	24
11/28/06	u	**Off**	On	2,744	0.37	0.63	0.97	20	20	19	20	22	21	25	25	22	23
12/14/06	u	**Off**	On	2,801	0.17	0.63	0.51	19	19	18	18	19	19	22	22	23	22
12/26/06	u	**Off**	On	2,906	0.42	0.62	0.95	20	20	19	20	21	20	25	25	20	24
1/15/07	u	**Off**	On	2,983	0.18	0.62	0.69	19	20	18	18	19	19	22	23	22	22
1/29/07	v	**Off**	On	3,076	0.32	0.62	0.84	20	20	19	20	20	20	24	21	23	24
2/6/07	u	**Off**	On	3,156	0.48	0.62	0.72	19	20	18	17	19	19	21	24	21	23
2/21/07	u	**Off**	On	3,303	0.47	0.62	1.32	20	21	20	20	18	21	23	21	25	23
3/5/07	u	**Off**	On	3,378	0.30	0.61	0.68	19	20	18	18	18	20	21	23	22	22
3/19/07	u	**Off**	On	3,476	0.33	0.61	0.88	20	21	20	19	18	21	23	24	23	24
4/4/07	u	**Off**	On	3,515	0.12	0.61	0.35	19	20	18	17	18	19	21	21	21	22
4/18/07	u	**Off**	On	3,606	0.31	0.60	0.82	21	21	20	20	18	21	24	24	24	23
5/10/07	u	**Off**	On	3,676	0.15	0.60	0.63	19	20	19	17	18	19	20	23	20	21
5/25/07	u	**Off**	On	3,758	0.26	0.60	0.74	22	21	20	19	19	21	22	22	22	23
6/4/07	u	**Off**	On	3,801	0.18	0.59	0.39	18	20	18	18	17	19	19	20	21	20
6/18/07		On	On	4,137	1.00	0.60	3.02	20	20	19	19	19	20	22	22	20	22
7/2/07		On	On	4,373	0.70	0.60	2.12	15	21	19	18	20	19	24	21	21	23
7/16/07		On	On	4,409	0.11	0.59	0.32	18	20	20	19	21	20	26	23	22	25
8/8/07		On	On	4,961	1.00	0.60	4.97	13	20	20	18	20	18	29	22	20	24
8/27/07		On	On	5,411	0.99	0.60	4.05	14	21	19	20	21	19	30	20	21	21
9/13/07		On	On	5,822	1.00	0.61	3.70	22	21	21	23	21	22	30	20	21	21
9/27/07		On	On	6,155	0.99	0.61	3.00	28	25	25	27	25	26	32	21	26	25
10/29/07		On	On	6,917	0.99	0.62	6.86	28	25	24	25	33	32	32	21	30	30
11/26/07		On	On	7,591	1.00	0.62	6.07	26	22	24	25	31	30	32	22	30	30
12/31/07		On	On	8,425	0.99	0.63	7.51	26	20	24	24	30	32	32	30	28	30
1/28/08		On	On	9,103	1.01	0.63	6.10	26	21	22	21	26	30	28	26	27	27
2/25/08		On	On	9,778	1.00	0.64	6.08	23	19	22	20	25	30	30	28	27	28
3/24/08		On	On	10,475	1.00	0.64	6.27	25	20	21	20	24	30	28	27	26	27
4/28/08		On	On	11,317	1.00	0.65	7.58	24	22	20	22	22	30	29	24	26	26
5/26/08		On	On	11,992	1.00	0.65	6.08	23	20	22	22	23	30	30	25	27	28
6/30/08		On	On	12,828	1.00	0.66	7.52	25	22	21	23	22	31	29	26	27	26
7/28/08		On	On	13,498	1.00	0.66	6.03	22	26	24	28	23	30	22	27	29	21
8/25/08		On	On	14,261	1.00	0.66	6.87	18	15	25	14	19	22	23	25	24	20
9/29/08		On	On	15,100	1.00	0.67	7.55	20	14	15	16	18	28	28	20	19	22
10/27/08	z	On	On	15,358	0.38	0.67	2.32	20	16	16	17	20	28	28	18	19	21

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California

		OZONE SPARGE SYSTEM						SP-A	SP-BS	SP-BD	SP-C	SP-DS	SP-DD	SP-E	SP-F	SP-G	SP-H
		System Status (On/Off)		Hourmeter	Period Online	Cumulative	Ozone Injected	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure
Date	Notes	Arrival	Departure	Reading	Factor	Online Factor	(lbs)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)
11/24/08		On	On	16,028	1.00	0.67	6.03	20	15	15	15	18	25	25	18	16	20
12/29/08		On	On	16,869	1.00	0.67	7.57	20	15	17	16	20	24	22	19	14	20
1/26/09		On	On	17,542	1.00	0.68	6.06	22	17	16	16	21	25	20	18	15	22
2/23/09		On	On	18,214	1.00	0.68	6.05	21	18	19	18	20	23	21	19	16	20
3/30/09		On	On	19,005	0.94	0.69	7.12	20	19	17	17	22	22	21	18	16	21
4/27/09		On	On	19,727	1.00	0.69	6.50	21	21	18	18	21	22	20	19	18	20
5/25/09		On	On	20,400	1.00	0.69	6.06	22	20	17	16	20	21	21	20	19	19
6/22/09		On	On	21,072	1.00	0.70	6.05	20	20	17	18	17	20	21	19	20	20
7/27/09		On	On	21,912	1.00	0.70	7.56	22	21	18	19	16	22	22	21	19	18
8/3/09		On	Off	22,080	1.00	0.70	1.51	21	20	20	21	18	21	20	20	21	19
11/4/09		Off	On	22,080	0.00	0.68	0.00	20	19	19	20	17	20	19	18	19	17
12/30/09		On	On	23,424	1.00	0.68	12.10	23	21	21	23	20	22	23	21	22	21
1/27/10		On	On	24,096	1.00	0.69	6.05	21	20	20	22	21	24	23	20	24	23
2/24/10		On	On	24,767	1.00	0.69	6.04	22	24	22	21	22	25	24	21	26	24
3/30/10		On	On	25,607	1.00	0.69	7.56	20	21	22	23	19	23	22	22	25	23
4/27/10		On	On	26,280	1.00	0.70	6.06	21	22	21	22	20	21	20	20	24	21
5/25/10		On	On	26,953	1.00	0.70	6.06	22	24	23	21	21	22	21	22	23	22
6/29/10		On	On	27,795	1.00	0.70	7.58	24	21	22	24	22	20	21	22	24	23
7/27/10		On	On	28,467	1.00	0.71	6.05	21	18	20	22	20	17	19	18	21	20
8/31/10		On	On	29,308	1.00	0.71	7.57	12	18	24	15	13	14	16	10	17	8
9/28/10		On	On	29,980	1.00	0.71	6.05	11	18	15	19	20	17	23	16	15	20
10/26/10		On	On	30,652	1.00	0.71	6.05	9	18	18	20	21	17	21	10	19	17
11/30/10		On	On	31,492	1.00	0.72	7.56	13	22	19	18	28	20	19	15	17	19
12/28/10		On	On	32,163	1.00	0.72	6.04	14	19	18	18	26	21	20	18	18	18
1/25/11		On	On	32,834	1.00	0.72	6.04	18	17	15	21	24	17	19	21	20	15
2/22/11		On	On	33,506	1.00	0.72	6.05	20	21	18	25	21	23	28	25	22	20
3/29/11		On	On	34,342	1.00	0.73	7.52	19	20	18	22	23	22	25	24	23	20
4/26/11		On	On	35,012	1.00	0.73	6.03	22	21	19	20	21	21	23	24	23	22
5/31/11		On	On	35,851	1.00	0.73	7.55	20	20	20	21	20	20	21	22	21	21
6/28/11		On	On	36,523	1.00	0.73	6.05	21	22	21	19	20	22	19	20	23	20
7/26/11		On	On	37,196	1.00	0.74	6.06	19	20	20	21	18	20	16	22	21	22
8/30/11		On	On	38,034	1.00	0.74	7.54	25	31	26	-	30	34	27	28	22	24
9/27/11		On	On	38,705	1.00	0.74	6.04	21	30	27	20	29	31	22	26	20	23
10/27/11		On	On	39,417	0.99	0.74	6.41	18	22	17	26	19	24	18	19	15	19
11/24/11		On	On	40,093	1.00	0.75	6.08	21	20	17	24	16	21	19	17	16	18
12/29/11		On	On	40,931	1.00	0.75	7.54	25	22	29	23	20	20	19	18	15	17
1/24/12		On	On	41,555	1.00	0.75	5.62	21	18	25	20	20	18	19	15	16	21
2/27/12		On	On	42,391	1.00	0.75	7.52	30	25	33	44	22	29	23	20	24	29
3/26/12		On	On	43,064	1.00	0.75	6.06	26	22	29	35	20	25	21	18	23	33
4/23/12		On	On	43,739	1.00	0.76	6.08	23	17	25	34	26	22	25	18	23	29
5/28/12		On	On	44,583	1.00	0.76	7.60	20	19	22	30	21	24	20	16	20	24
6/28/12		On	On	45,329	1.00	0.76	6.71	22	21	20	32	20	24	21	17	18	23

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76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California

Date	Notes	OZONE SPARGE SYSTEM						SP-A	SP-BS	SP-BD	SP-C	SP-DS	SP-DD	SP-E	SP-F	SP-G	SP-H
		System Status (On/Off)		Hourmeter	Period Online	Cumulative	Ozone Injected	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure
		Arrival	Departure	Reading	Factor	Online Factor	(lbs)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)
7/26/12		On	On	45,999	1.00	0.76	6.03	23	18	21	29	21	20	20	17	20	20
8/30/12		On	On	46,843	1.00	0.76	7.60	20	15	19	25	16	18	19	16	18	16
(6/23/2003-present) Sparge time per cycle (min)								7	7	7	7	7	7	7	7	7	7
Number of Cycles per Day								20	20	20	20	20	20	20	20	20	20

Reporting Period: Third Quarter 2012 (6/1/2012 to 8/31/2012)
Total Hours Operational: 54,920
Total Pounds Ozone Injected: 494
Period Hours Operational: 2260
Period Percent Operational: 100%
Period Pounds Ozone Injected: 20

Definitions:

psi	Pounds per square inch
--	Data not available
NA	Not applicable
lbs	Pounds

Notes:

	Hour Meter Formula adjusted 12/19/07
	June 4, 2007 - Control Panel retrofit installed.
	August 3, 2009 - Ozone down by request of COP PM
	November 4, 2009 - System restarted
a	Troubleshooting time counter
b	Hourmeter replaced
c	Solenoid 8 has high pressure, taken offline
d	Solenoid 3 leaking, taken off line
e	Pressures not properly recorded
f	Ozone generator hose ruptured on effluent side to solenoid manifold. No Readings.
g	System down due to bad GFI
h	New GFI was installed.
i	Fan in compressor broken and tubing from compressor to manifold needs to be replaced. System left off until repairs made.
j	Installed new motor fan and manifold fittings, restarted system.
k	OZ-3 turned off due to high pressure of over 60 psi.
l	OZ-5 too brittle. Left off until lines are replaced.
m	OZ-10 turned off due to leak in secondary containment
n	Hourmeter reading not correct, will check next visit
o	Hourmeter not working properly.
p	Pressure gauge stuck at 16 psi.
q	New hourmeter, panel fan, and GFCI installed
r	Fuse blown in ozone generator, system left off
s	Replaced tubing to all wells and replaced ozone generator circuit board and pressure gauge
t	System down due to tripped GFI; foam on door may have been pressing reset button. Foam removed.
u	Ozone sensor tripped; system restarted.
v	Rainbird meter malfunction.
w	System down time due to tripped GFI; system restarted.
x	System off due to bad compressor.
y	Compressor repaired; system restarted.
z	September 10-27,2008 - System down for well repair.

Table 2
Ozone Injection - Groundwater Monitoring Data
76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California

		Monitoring Well: MW-1								Monitoring Well: MW-7							
Date	Notes	ORP (mV)	DO (mg/l)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)	ORP (mV)	DO (mg/l)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)
4/16/03	a	NM	NM	**510**	**57**	**0.62**	**29**	**61**	**160**	NM	NM	<25,000	<250	<250	<250	<500	**37,000**
6/23/03	a	NM	NM	**75**	<0.50	<0.50	<0.50	**5.3**	**12**	NM	NM	20,000	260	<0.50	<0.50	<1.0	**20,000**
8/29/03	a	NM	NM	**11,000**	**64**	<10	**330**	**1,400**	**440**	NM	NM	<10,000	<100	<100	<100	<200	**24,000**
9/18/03		NM	NM	**390**	**2.3**	<0.50	**3.6**	**31**	**30**	NM	NM	--	--	--	--	--	**--**
10/16/03		NM	NM	**2,100**	**6.0**	<0.50	**24.0**	**120**	**110**	NM	NM	--	--	--	--	--	**--**
11/17/03		NM	NM	**130**	**0.51**	<0.50	**2.1**	**7.9**	**43**	NM	NM	16,000	<130	<130	<130	<250	**17,000**
12/5/03		NM	NM	<50	<0.50	<0.50	<0.50	<1.0	**36**	NM	NM	12,000	<100	<100	<100	<200	**19,000**
1/16/04	b	NM	NM	<50	<0.50	<0.50	<0.50	<1.0	<2.0	NM	NM	17,000	160	270	<130	<250	**19,000**
2/3/04		238	NM	<50	<0.50	<0.50	<0.50	<1.0	<2.0	72	NM	10,000	<25	<25	<25	<50	**15,000**
3/24/04	b	169	NM	**55**	<0.50	<0.50	**0.80**	**2.9**	**7.8**	56	NM	**13,000**	<100	<100	<100	<200	**15,000**
4/14/04	b	0.4	NM	**23,000**	**310**	**10**	**590**	**2400**	**1700**	42	NM	**9,000**	<50	<50	<50	<100	**11,000**
5/11/04		c	NM	**7,800**	**160**	<10	**170**	**700**	**720**	-3	NM	**8,300**	<50	<50	<50	<100	**11,000**
6/14/04		20	5.25	**110**	<0.50	<0.50	**1.0**	**6.4**	**3.4**	35	1.45	<5,000	<50	<50	<50	<100	**6,500**
7/26/04		NM	NM	<50	<0.50	<0.50	<0.50	<1.0	**3.2**	NM	NM	<5,000	<50	<50	<50	<100	**3,100**
8/12/04		171	0.07	<50	<0.50	<0.50	<0.50	<1.0	**0.80**	117	0.06	**2,100**	<10	<10	<10	<20	**2,700**
9/10/04		180	0.08	<50	<0.50	<0.50	<0.50	<1.0	**5.7**	122	0.07	**3,100**	<13	<13	<13	<25	**4,400**
10/5/04		175	0.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	117	0.08	<50	<0.50	<0.50	<0.50	<1.0	**7.1**
11/5/04	d	117	0.05	<50	<0.50	<0.50	<0.50	<1.0	**0.89**	210	0.06	**50**	<0.50	<0.50	<0.50	<1.0	**1.1**
12/2/04		109	0.03	**83**	**0.83**	<0.50	<0.50	**1.2**	**44**	214	0.03	**180**	**1.6**	<0.50	**66**	**4.5**	**51**
1/13/05		105	0.04	**1,100**	**26**	**1.2**	**2.10**	**70**	**630**	201	0.05	**1,000**	**25**	**1**	**1.9**	**68**	**460**
2/25/05	c,f	--	2.67	**24,000**	**350**	**10**	**820**	**2,200**	**1,300**	21	2.05	**680**	<2.0	<2.0	**2.3**	**58**	**2,500**
3/8/05	g	-35	4.43	**23,000**	**410**	<10	**1,100**	**2,300**	**1,300**	NR	NR	--	--	--	--	--	--
4/5/05		-30	4.56	**34,000**	**300**	<10	**910**	**2,000**	**1,100**	135	6.53	<5,000	<.50	<.50	<.50	<1.00	**19,000**
5/4/05		-59	2.40	**26,000**	**220**	**7.4**	**790**	**2,100**	**860**	-24	1.13	<2,000	<0.50	<0.50	<0.50	<1.0	**7,100**
6/2/05		-20	7.34	<50	<0.50	<0.50	<0.50	<1.0	**3.5**	-12	1.01	**3500**	<0.50	<0.50	<0.50	<1.0	**4,000**
7/7/05	i,j	142	7.42	<50	<0.50	<0.50	<0.50	<1.0	**0.61**	154	1.40	**5000**	<0.50	<0.50	<0.50	<1.0	**8,900**
9/23/05		16	7.77	<50	<0.50	<0.50	<0.50	<1.0	<0.50	56	1.39	<500	<5.0	<5.0	<5.0	<10	**1,900**
10/23/05		154	7.13	<50	<0.50	<0.50	<0.50	<1.0	**0.56**	191	1.59	<250	<2.5	<2.5	<2.5	<5	**680**
11/1/05	k	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	**--**
12/20/05		--	--	**10000**	**17**	**29**	**180**	**840**	**2400**	--	--	**1100**	**0.90**	<0.50	**24**	**37**	**8200**
3/10/06		--	--	**10000**	**35**	<0.50	**470**	**1300**	**960**	--	--	**1200**	**24**	<0.50	**3.6**	<1.0	**4700**
6/23/06		--	--	**11000**	**110**	<0.50	**610**	**1600**	**780**	--	--	**1800**	**21**	<0.50	<0.50	<1.0	**1500**
9/27/06		--	--	**8500**	**22**	<0.50	**270**	**740**	**460**	--	--	<2,000	<0.50	<0.50	<0.50	<1.0	**350**
12/22/06		--	--	**7300**	**35**	<0.50	**370**	**850**	**210**	--	--	**24000**	<0.50	<0.50	<0.50	<1.0	**190**
3/23/07		--	--	**8800**	**28**	<0.50	**440**	**910**	**170**	--	--	**85**	<0.50	<0.50	<0.50	<1.0	**92**
6/26/07		--	--	**6300**	**16**	<0.50	**300**	**650**	**50**	--	--	--	--	--	--	--	**--**
9/28/07		--	--	<50	<0.50	<0.50	<0.50	<1.0	**1.2**	--	--	50	<0.50	<0.50	<0.50	<1.0	**37**
12/17/07		--	--	**4700**	<0.50	<0.50	**71**	**160**	**18**	--	--	--	--	--	--	--	**--**
3/25/08		--	--	**7400**	**28**	<0.50	**430**	**540**	**170**	--	--	<50	<0.50	<0.50	<0.50	<1.0	**7.3**
6/12/08		--	--	**4900**	**6.4**	<0.50	**170**	**280**	**16**	--	--	**52**	<0.50	<0.50	<0.50	<1.0	**9.4**
9/25/08		--	--	**2200**	**2.1**	<0.50	**72**	**110**	**11**	--	--	**65**	<0.50	<0.50	<0.50	<1.0	**5.6**
12/30/08		--	--	**3200**	**2.5**	<0.50	**100**	**150**	**8.3**	--	--	**130**	<0.50	<0.50	<0.50	**1.1**	**5.7**
3/24/09		--	--	**3500**	**6.8**	<0.50	**140**	**140**	**28**	--	--	**98**	**0.50**	<0.50	<0.50	<1.0	**9.2**
6/23/09		--	--	**740**	<0.50	<0.50	**17**	**12**	**8**	--	--	**290**	**1.2**	<0.50	<0.50	<1.0	**6.7**
12/16/09		--	--	**4600**	**10**	<0.50	**270**	**140**	**52**	--	--	**150**	<0.50	<0.50	<0.50	<1.0	**3.7**
4/14/10		54	1.88	**1500**	**4.8**	<1.00	**100**	**36**	**20**	110	0.97	**60**	<0.50	<0.50	<0.50	<1.0	**2.1**
10/13/10		--	--	**4600**	**3.0**	<0.50	**180**	**73**	**6**	--	--	<50	<0.50	<0.50	<0.50	<1.0	**3.6**
5/27/11				**1500**	**3.2**	<2.50	**86**	**14**	**10**			<50	<0.50	<0.50	<0.50	<1.0	**5.2**
11/10/11		177	0.81	**410**	**0.72**	<0.50	**7.1**	**1.4**	**2.4**	169	2.74	<50	<0.50	<0.50	<0.50	<1.0	**2.9**
4/12/12		237	5.30	**2700**	**4.7**	<0.50	**130**	**7.5**	**14.0**	210	1.61	<50	<0.50	<0.50	<0.50	<1.0	**4.7**

Definitions:

TPHg = Total petroleum hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter

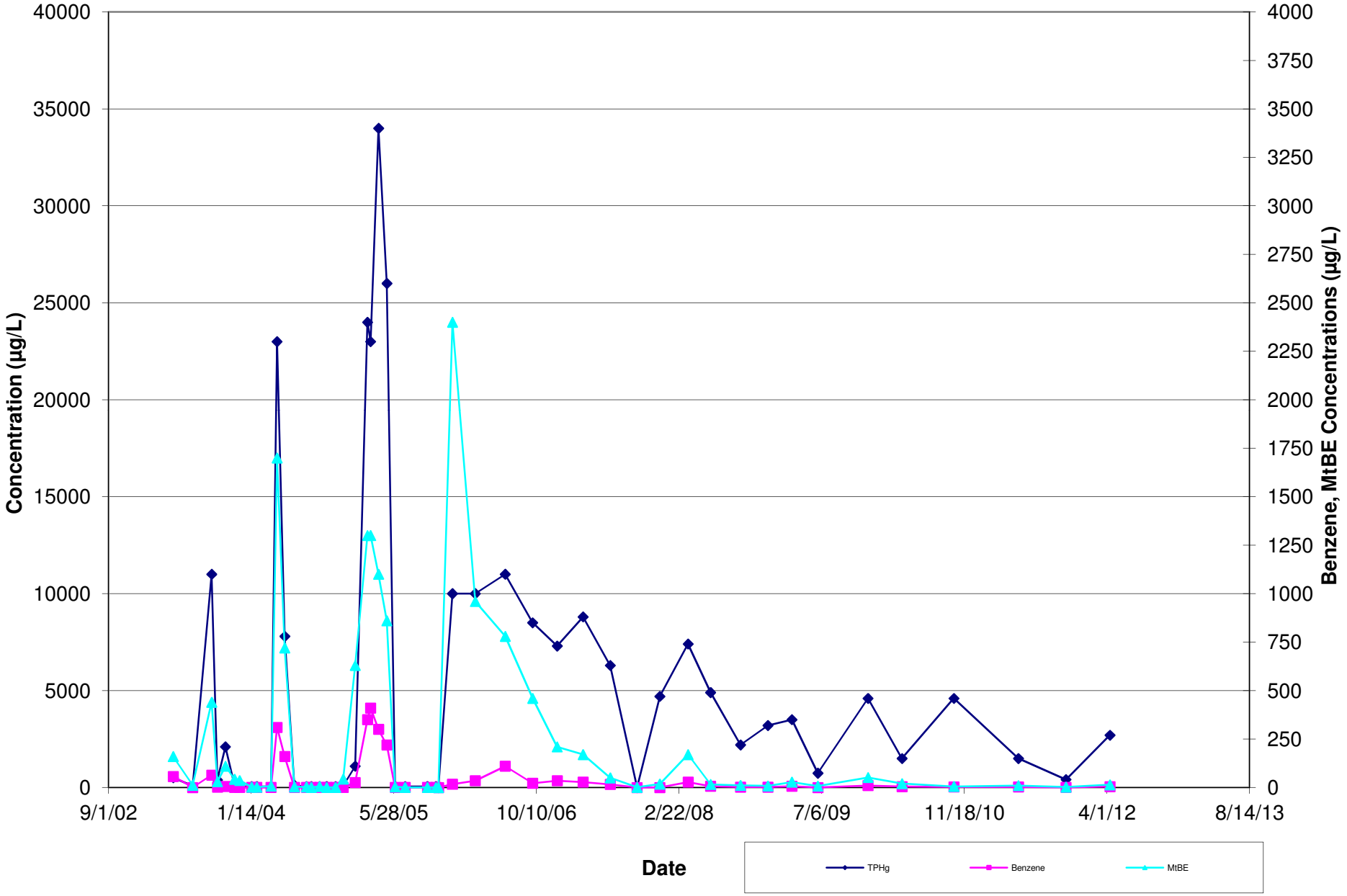
ORP = Oxidation Reduction Potential
DO = Dissolved Oxygen
mV = Millivolts
mg/l = Milligrams per liter

Notes:

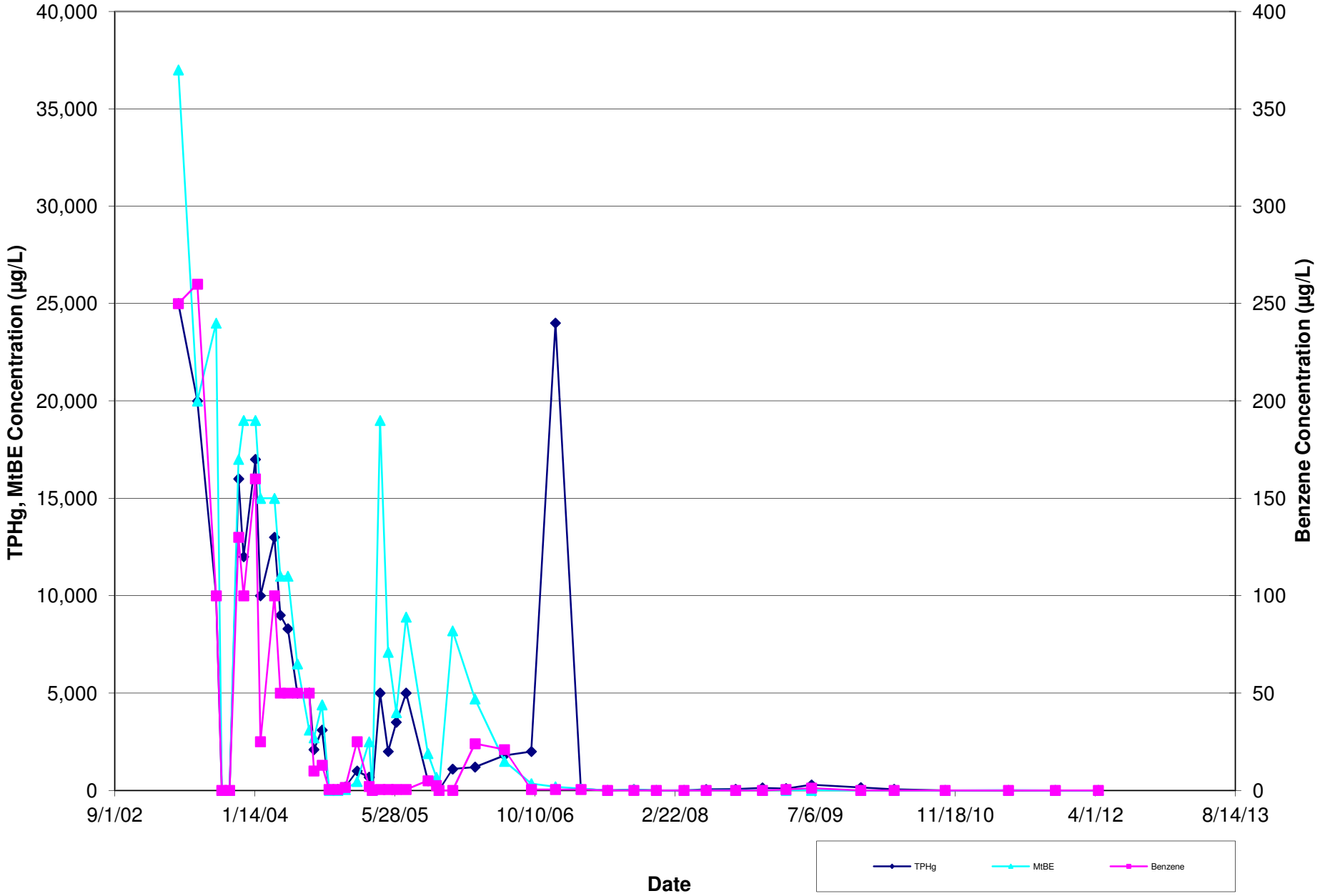
--	Data not available
NM	Not Measured
a	Sampled by Gettler-Ryan, Inc.
b	Hydrocarbon in gasoline range does not match laboratory gasoline standard.
c	ORP reading under the range
d	Quantity of unknown hydrocarbon(s) in sample based on gasoline.
e	Data not available at time of reporting
f	MW-7 Estimated value of MtBE; concentration exceeded the calibration of analysis
g	Car parked on MW-7.
h	Data not available at time of reporting
i	Siloxane peaks were found in the sample which are not believed to be gasoline related. If they were to be quantified as gasoline, the concentration would be 58 ug/L. (MW-1).
j	The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern. (MW-1)
k	Monthly sampling discontinued at the request of ConocoPhillips

Graphs

Graph 1
MW-1 TPHg, Benzene, and MtBE Groundwater Concentrations
76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California



Graph 2
MW-7 TPHg, Benzene, and MtBE Groundwater Concentrations
76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California



Appendix A
Field Notes

Ozone Injection System Data Sheet

Station No.: **1871 (UOC 351644)**

City: **Oakland**

Date	Notes	Status ON/OFF	Cycles/ Day	Hour Meter	Well I.D. SP-A				Well I.D. SP-BS				Well I.D. SP-BD			
					Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)
28 June 12		on/on	20	45329	22		7		21		7		20		7	
26 July 12		on/on	20	45979	23		7		18		7		21		7	
30 Aug 12		on/on	20	46843	20		7		15		7		19		7	

Date	Well I.D. SP-C				Well I.D. SP-DS				Well I.D. SP-DD				Well I.D. SP-E			
	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)
28 June 12	32		7		20		7		24		7		21		7	
26 July 12	29		7		21		7		20		7		20		7	
30 Aug 12	25		7		16		7		18		7		19		7	

Date	Well I.D. SP-F				Well I.D. SP-G				Well I.D. SP-H				Well I.D.			
	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)	Pressure (psi)	Temp. (°F)	Run Time (min)	Flow Rate (acfm)
28 June 12	17		7		18		7		20		7					
26 July 12	17		7		20		7		20		7					
30 Aug 12	16		7		18		7		16		7					

Ozone System Maintenance and Inspection Log

Date	Check/ Repair Leaks	Check Hoses Fittings & Pipes	Check Air Filter (Document Date Replaced)	Check & Test Safety Interlock	Check Sparge Blower V-Belt Tension & Conditions	Check Controller Program	Change Blower Oil	Sparge Blower Grease Bearings	Sparge Blower Repair/Replace	Comments
28 June 12	ok	ok	ok	ok	N/A	ok	N/A	N/A	ok	
26 July 12	ok	ok	ok	ok	N/A	ok	N/A	N/A	ok	
30 Aug 12	ok	ok	ok	ok	N/A	ok	N/A	N/A	ok	

Notes: A = System down-breaker thrown B = Compressor Overload. C = Ozone sensor Tripped. D = Temp. sensor tripped.