

RECEIVED

By Alameda County Environmental Health at 2:59 pm, Jul 19, 2013



Timothy Bishop
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6463
Timbishop@Chevron.com

July 1, 2013

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

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

I accept the **Second Quarter 2013 Groundwater Monitoring and Sampling Report and First Quarter 2013 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 Quarter 2013 Groundwater Monitoring and Sampling Report and First Quarter 2013 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,

A handwritten signature in blue ink, appearing to read "Tim Bishop".

Timothy Bishop
Project Manager

Attachment: **Second Quarter 2013 Groundwater Monitoring and Sampling Report and First 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>

July 1, 2013

Reference No. 060727

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

Re: Second Quarter 2013 Groundwater Monitoring and Sampling Report
and First Quarter 2013 Ozone Injection System O&M Report
76 Products Service Station 1871 (Union Oil 351644)
96 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 Quarter 2013 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 Gettler-Ryan, Inc. (G-R) of Dublin, California and their *First Semi-Annual Monitoring and Sampling Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Laboratory analyses were performed by Eurofins Lancaster Laboratory and their *Analysis Results* 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 SECOUND QUARTER 2013 EVENT

On May 3, 2013, G-R monitored and sampled the site wells per the established schedule. Results of the current monitoring event indicate the following:

- Groundwater Flow Direction South
- Hydraulic Gradient 0.07
- Approximate Depth to Groundwater 7 to 17 feet below grade

Equal
Employment Opportunity
Employer



July 1, 2013

Reference No. 060727

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

TABLE A: GROUNDWATER ANALYTICAL DATA							
Well ID	TPH _g ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)
ESLs	100	1	40	30	20	5	12
MW-1	3,800	2	<0.5	150	3	3	37
MW-6	<22	<0.5	<0.5	<0.5	<0.5	1	<2
MW-7	<22	<0.5	<0.5	<0.5	<0.5	8	<2
MW-8	<22	<0.5	<0.5	<0.5	<0.5	0.7	<2
MW-9	Unable to locate well						
MW-10	<22	<0.5	<0.5	<0.5	<0.5	<0.5	<2
MW-11	<22	<0.5	<0.5	<0.5	<0.5	<0.5	<2
$\mu\text{g/L}$	Micrograms per Liter						
ESLs	Environmental Screening Levels from <i>Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater</i> , California Regional Water Quality Control Board-San Francisco Bay Region, Interim Final November 2007, Revised May 2013 (Table F-1a - Groundwater is a potential source of drinking water source)						
Bold	Exceeds ESL						

REMEDIATION SYSTEM OPERATION

The ozone injection system was shut off on March 15, 2013.

CONCLUSIONS

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

- Dissolved total petroleum hydrocarbons as gasoline (TPHg) is only detected in onsite well MW-1.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations are below historical maximum concentrations in all wells.
- MTBE concentrations are below the laboratory detection limit and/or water quality objectives in all wells except MW-7.
- Dissolved tertiary butyl alcohol was detected in well MW-1.



**CONESTOGA-ROVERS
& ASSOCIATES**

July 1, 2013

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- Monitoring Well MW-9 could not be located during this sampling event.

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*. EMC and CRA are still awaiting a response from ACEH to the closure request.

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.

Please contact Nathan Lee at (925) 849-1003 if you have any questions or require additional information.

Regards,

CONESTOGA-ROVERS & ASSOCIATES



Nathan S. Lee, PG 8486

NL/aa/10
Encl.



**CONESTOGA-ROVERS
& ASSOCIATES**

July 1, 2013

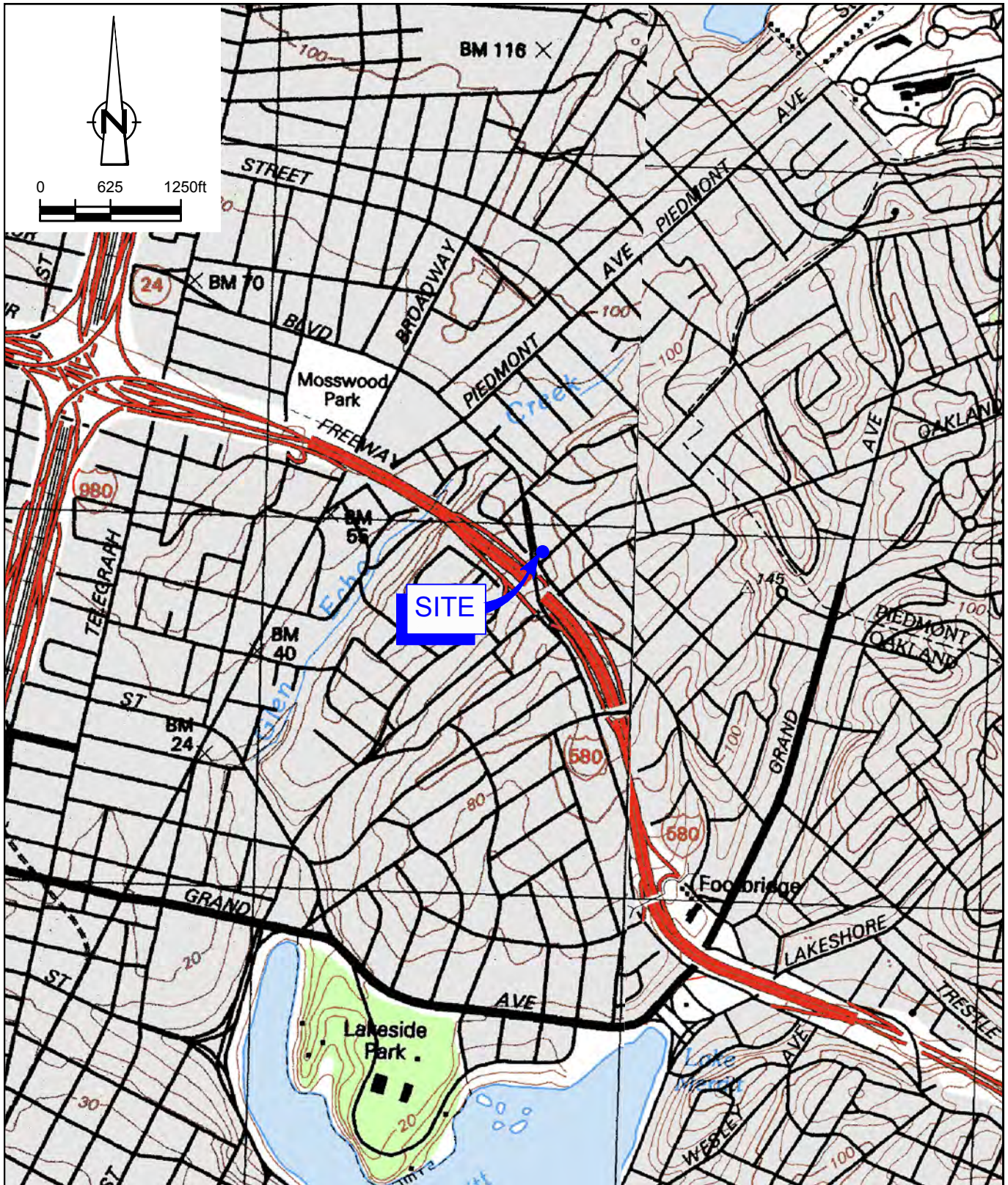
Reference No. 060727

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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
Gerald C. Kratz Trust

FIGURES

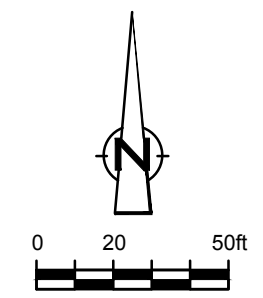
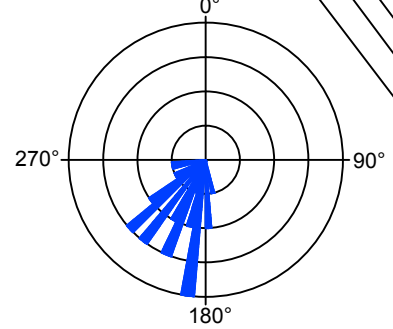
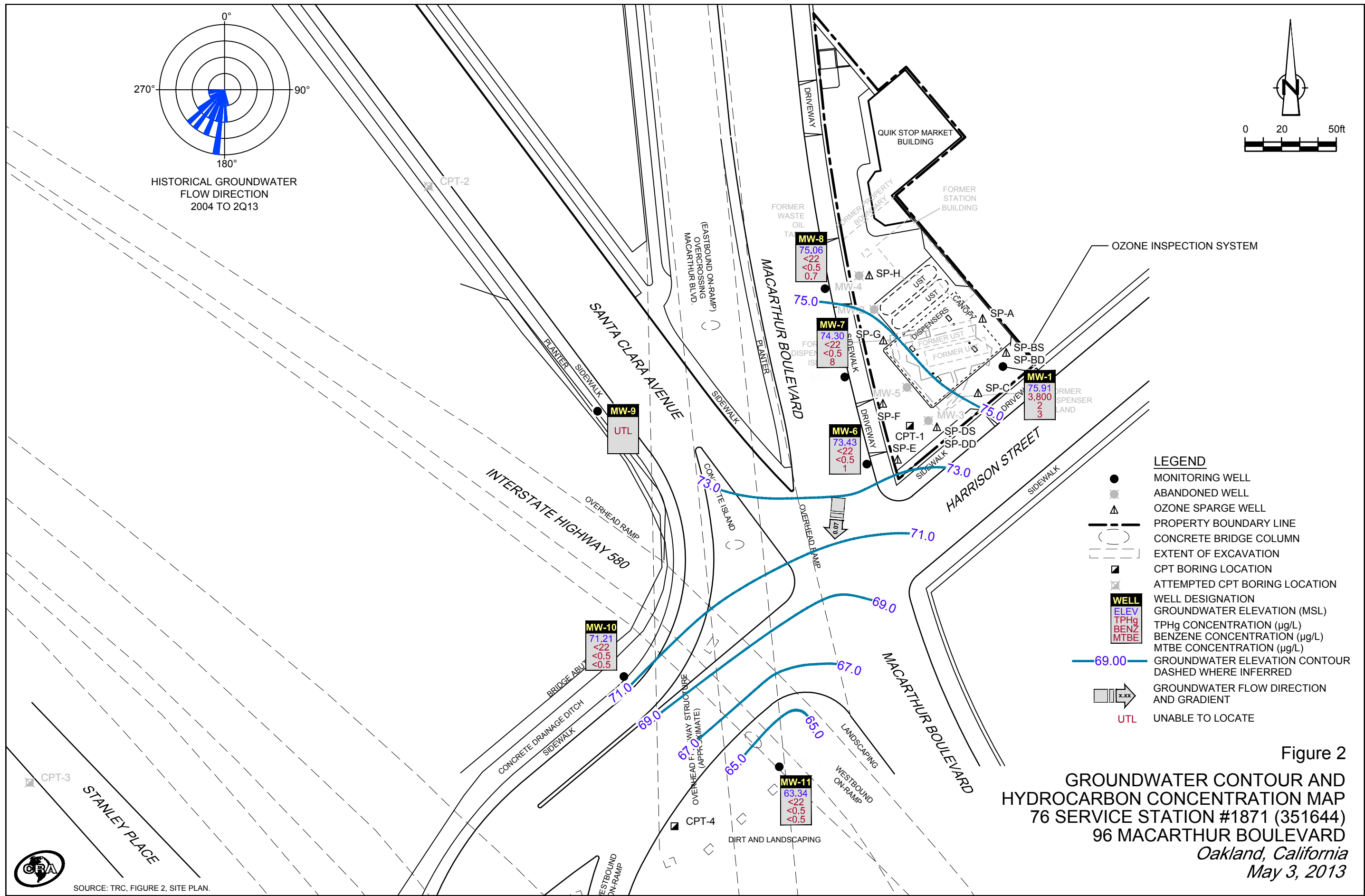


SOURCE: USGS QUADRANGLE MAPS: OAKLAND WEST, CA. & OAKLAND EAST, CA.

Figure 1

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





- LEGEND**
- MONITORING WELL
 - ⊗ ABANDONED WELL
 - ▲ OZONE SPARGE WELL
 - - - PROPERTY BOUNDARY LINE
 - CONCRETE BRIDGE COLUMN
 - - - EXTENT OF EXCAVATION
 - CPT BORING LOCATION
 - ⊗ ATTEMPTED CPT BORING LOCATION
 - WELL**
ELEV
TPHg
BENZ
MTBE
 - WELL DESIGNATION
 - GROUNDWATER ELEVATION (MSL)
 - TPHg CONCENTRATION (µg/L)
 - BENZENE CONCENTRATION (µg/L)
 - MTBE CONCENTRATION (µg/L)
 - 69.00 — GROUNDWATER ELEVATION CONTOUR
DASHED WHERE INFERRED
 - GROUNDWATER FLOW DIRECTION AND GRADIENT
 - UTL UNABLE TO LOCATE

TABLE

TABLE 1

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS		PRIMARY VOCS							GENERAL CHEMISTRY				
					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-1	05/03/2013	90.21	14.30	75.91	3,800	2	<0.5	150	3	3	37	<0.5	<0.5	<50	230	5.7	0.3	46.1
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-6	05/03/2013	82.51	9.08	73.43	<22	<0.5	<0.5	<0.5	<0.5	1	<2	<0.5	<0.5	<50	<10	0.048	<0.25	29.2
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-7	05/03/2013	83.80	9.50	74.30	<22	<0.5	<0.5	<0.5	<0.5	8	<2	<0.5	<0.5	<50	<10	0.045	<0.25	15.9
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-8	05/03/2013	84.86	9.80	75.06	<22	<0.5	<0.5	<0.5	<0.5	0.7	<2	<0.5	<0.5	<50	77	0.0057	0.96	60.9
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-9	05/03/2013¹	85.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS					PRIMARY VOCS					GENERAL CHEMISTRY			
					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-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
MW-10	05/03/2013	78.18	6.97	71.21	<22	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<50	10	<0.0030	8.2	30.1
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
MW-11	05/03/2013	80.44	17.10	63.34	<22	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<50	<10	<0.0030	0.41	59
QA	05/03/2013	-	-	-	<22	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-

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

TABLE 1

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

Location	Date	TOC	DTW	GWE	HYDROCARBONS					PRIMARY VOCS					GENERAL CHEMISTRY			
					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

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

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



GETTLER-RYAN INC.



TRANSMITTAL

May 8, 2013
G-R #385645

TO: Mr. Nathan Lee
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Chevron Service Station**
#351644/1871
96 MacArthur Boulevard
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package First Semi-Annual Event of May 3, 2013

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351644 1871

WELL CONDITION STATUS SHEET

Client/
 Facility #: Chevron #351644 / 1871
 Site Address: 96 Macarthur Blvd.
 City: Oakland, CA

Job #: 385645
 Event Date: 5/3/13
 Sampler: JOE

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
Mw-10	OK						→	N	N	Pemco 12" 2	N
Mw-9										UTL	
Mw-11	OK						→	N	N	Pemco 12" 2	N
Mw-8	OK	M	OK				→	N	N	Pemco 12" 2	N
Mw-6	OK						→	N	N	Emco 12" 2	N
Mw-7	OK						→	N	N	Emco 12" 2	N
Mw-1	OK						→	N	N	Emco 12" 2	N

Comments unable to locate buried under soil and vegetation.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Evergreen Oil located in Newark, California.



GETTLER - RYAN Inc.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351644 / 1871 Job Number: 385645
 Site Address: 96 Macarthur Blvd. Event Date: 5/3/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-1 Date Monitored: 5/3/13
 Well Diameter: 210 in.
 Total Depth: 24.05 ft.
 Depth to Water: 14.30 ft. Check if water column is less than 0.50 ft.
9.75 xVF 0.66 = 6.43 x3 case volume = Estimated Purge Volume: 19.30 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.25

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump ✓
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer ✓
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0957 Weather Conditions: Clear
 Sample Time/Date: 1112 / 5/3/13 Water Color: gray Odor: WIN Slight
 Approx. Flow Rate: 2 gpm. Sediment Description: None
 Did well de-water? yes If yes, Time: 1004 Volume: 14 gal. DTW @ Sampling: 16.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (µmhos/cm - µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1000</u>	<u>6</u>	<u>7.26</u>	<u>0.36</u>	<u>20.6</u>	PRE: <u>0.5</u>	PRE: <u>40</u>
<u>1003</u>	<u>12</u>	<u>7.11</u>	<u>0.36</u>	<u>21.2</u>		
					POST:	POST:

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX+MTBE(8260)/TBA/EDB/EDC(8260)/ETHANOL(8260)
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	<u>2</u> x voa vial	YES	HCL	LANCASTER	METHANE (8015)

COMMENTS: Slow recovery



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351644 / 1871 Job Number: 385645
 Site Address: 96 Macarthur Blvd. Event Date: 5/3/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-6 Date Monitored: 5/3/13
 Well Diameter: 214 in.
 Total Depth: 24.50 ft.
 Depth to Water: 9.08 ft. Check if water column is less than 0.50 ft.
15.42 xVF 0.17 = 2.62 x3 case volume = Estimated Purge Volume: 7.86 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0908 Weather Conditions: Clear
 Sample Time/Date: 0937 / 5/3/13 Water Color: Clear Odor: YIN
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.90

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (µmhos/cm = µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0812</u>	<u>3</u>	<u>7.10</u>	<u>0.68</u>	<u>18.5</u>	PRE: <u>1.3</u>	PRE: <u>62</u>
<u>0817</u>	<u>6</u>	<u>7.09</u>	<u>0.68</u>	<u>18.6</u>		
<u>0822</u>	<u>8</u>	<u>7.04</u>	<u>0.68</u>	<u>18.8</u>		
					POST: <u>2.0</u>	POST: <u>58</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX+MTBE(8260)/TBA/EDB/EDC(8260)/ETHANOL(8260)
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	<u>2</u> x voa vial	YES	HCL	LANCASTER	METHANE (8015)

COMMENTS: Slow recovery

Add/Replaced Gasket: _____ Add/Replaced Bolt: ✓ 1 Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351644 / 1871 Job Number: 385645
 Site Address: 96 Macarthur Blvd. Event Date: 5/3/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-7 Date Monitored: 5/3/13
 Well Diameter: 214 in.
 Total Depth: 24.65 ft.
 Depth to Water: 9.50 ft. Check if water column is less than 0.50 ft.
15.15 xVF 0.17 = 2.57 x3 case volume = Estimated Purge Volume: 7.72 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.53

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0742 Weather Conditions: Clear
 Sample Time/Date: 0922 / 5/3/13 Water Color: Clear Odor: YIN
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.51

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0747</u>	<u>3</u>	<u>7.11</u>	<u>0.57</u>	<u>18.0</u>	PRE: <u>1.5</u>	PRE: <u>69</u>
<u>0751</u>	<u>6</u>	<u>7.03</u>	<u>0.57</u>	<u>18.6</u>		
<u>0757</u>	<u>8</u>	<u>7.02</u>	<u>0.58</u>	<u>18.8</u>	POST: <u>1.5</u>	POST: <u>58</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX+MTBE(8260)/TBA/EDB/EDC(8260)/ETHANOL(8260)
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	<u>2</u> x voa vial	YES	HCL	LANCASTER	METHANE (8015)

COMMENTS: Slow recovery



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351644 / 1871 Job Number: 385645
 Site Address: 96 Macarthur Blvd. Event Date: 5/3/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-8 Date Monitored: 5/3/13
 Well Diameter: 21.4 in.
 Total Depth: 24.60 ft.
 Depth to Water: 9.80 ft. Check if water column is less than 0.50 ft.
14.80 xVF 0.17 = 2.51 x3 case volume = Estimated Purge Volume: 7.54 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.76

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0838 Weather Conditions: Clear
 Sample Time/Date: 0910 / 5/3/13 Water Color: gray Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.22

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0842</u>	<u>2</u>	<u>7.09</u>	<u>0.63</u>	<u>18.8</u>	PRE: <u>0.1</u>	PRE: <u>62</u>
<u>0846</u>	<u>4</u>	<u>6.90</u>	<u>0.67</u>	<u>20.1</u>		
<u>0853</u>	<u>7.5</u>	<u>6.87</u>	<u>0.67</u>	<u>19.1</u>	POST: <u>0.6</u>	POST: <u>55</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX+MTBE(8260)/TBA/EDB/EDC(8260)/ETHANOL(8260)
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	<u>2</u> x voa vial	YES	HCL	LANCASTER	METHANE (8015)

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351644 / 1871
 Site Address: 96 Macarthur Blvd.
 City: Oakland, CA

Job Number: 385645
 Event Date: 5/3/13 (inclusive)
 Sampler: JOE

Well ID: MW-9
 Well Diameter: 2 1/4 in.
 Total Depth: _____ ft.
 Depth to Water: _____ ft.

Date Monitored: _____

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	PRE: _____	PRE: _____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	POST: _____	POST: _____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX+MTBE(8260)/TBA/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	x voa vial	YES	HCL	LANCASTER	METHANE (8015)

COMMENTS: UTL

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351644 / 1871 Job Number: 385645
 Site Address: 96 Macarthur Blvd. Event Date: 5/3/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-10 Date Monitored: 5/3/13
 Well Diameter: 214 in.
 Total Depth: 20.09 ft.
 Depth to Water: 6.97 ft. Check if water column is less than 0.50 ft.
13.12 xVF 0.17 = 2.23 x3 case volume = Estimated Purge Volume: 6.69 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.59

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0714 Weather Conditions: Clear
 Sample Time/Date: 1034 / 5/3/13 Water Color: Clear Odor: YIN
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity μS (pmhos/cm - μS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0717</u>	<u>2</u>	<u>7.60</u>	<u>0.52</u>	<u>15.0</u>	PRE: <u>4.0</u>	PRE: <u>77</u>
<u>0720</u>	<u>4</u>	<u>7.43</u>	<u>0.51</u>	<u>15.2</u>		
<u>0725</u>	<u>7</u>	<u>7.36</u>	<u>0.47</u>	<u>15</u>		
					POST: <u>3.2</u>	POST: <u>77</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX+MTBE(8260)/TBA/EDB/EDC(8260)/ETHANOL(8260)
	<u>2</u> x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	<u>1</u> x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	<u>2</u> x voa vial	YES	HCL	LANCASTER	METHANE (8015)

COMMENTS: Slow Recovery



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351644 / 1871
 Site Address: 96 Macarthur Blvd.
 City: Oakland, CA

Job Number: 385645
 Event Date: 5/3/13 (inclusive)
 Sampler: JOEL

Well ID: MW-11
 Well Diameter: 214 in.
 Total Depth: 30.13 ft.
 Depth to Water: 17.10 ft.
13.03 xVF 0.17 = 2.21

Date Monitored: 5/3/13

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.70
 x3 case volume = Estimated Purge Volume: 6.64 gal.

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0640 Weather Conditions: Clear
 Sample Time/Date: 1049 5/3/13 Water Color: Clear Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.30

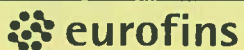
Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0643</u>	<u>2</u>	<u>7.17</u>	<u>2.54</u>	<u>15.6</u>	PRE: <u>1.9</u>	PRE: <u>89</u>
<u>0647</u>	<u>4</u>	<u>7.14</u>	<u>2.56</u>	<u>15.7</u>		
<u>0652</u>	<u>7</u>	<u>7.15</u>	<u>2.46</u>	<u>15.9</u>	POST: <u>2.3</u>	POST: <u>76</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	3 x voa vial	YES	HCL	LANCASTER	TPH-GRO GC/MS/BTEX+MTBE(8260)/TBA/EDB/EDC(8260)/ETHANOL(8260)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml ambers	YES	HCL	LANCASTER	FERROUS IRON (SM20 3500 Fe B)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (8015)

COMMENTS: Slow Recovery

Chevron California Region Analysis Request/Chain of Custody



**Lancaster
Laboratories**

Acct. # _____ Group # _____ Sample # _____
For Eurofins Lancaster Laboratories use only
Instructions on reverse side correspond with circled numbers.

050313-03

1 Client Information					4 Matrix				5 Analyses Requested								6 Remarks		
Facility # SS#351644-OML G-R#385645 WBS Global ID#T0600101493 Site Address 96 MACARTHUR BLVD., OAKLAND, CA Chevron PM BK CRALN Lead Consultant Lee G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568 Consultant/Office Deanna L. Harding (deanna@grinc.com) Consultant Project # 925-551-7555 925-551-7899 Consultant Phone # (925) 849-1003 x Sampler JOE LEWIS					<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Oil <input type="checkbox"/> Air				Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO GC/MS 8015 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan Methane (8015) Oxygenates Total Lead Method _____ Dissolved Lead Method _____ TBA/EDB/EDC (8260B) Ethanol (8260B) Nitrate/sulfate (EPA 300.0) Ferrous Iron (SM20 3500 Fe B)								SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits		
2 Sample Identification		Soil Depth	Collected		3 Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE	TPH-GRO	TPH-DRO	TPH-DRO	Oxygenates	Total Lead	Dissolved Lead	6 Remarks	
MW-10			5/3/13	1034			Water			X	X			X			X	X	X
MW-11				1049						X	X								
MW-8				0910						X	X								
MW-6				0937						X	X								
MW-7				0922						X	X								
MW-4				1112						X	X								
QA			NA	NA						X	X								
7 Turnaround Time Requested (TAT) (please circle)					Relinquished by			Date	Time	Received by			Date	Time					
Standard 5 day 4 day 72 hour 48 hour 24 hour					Joe P. Soud			5/3/13	1215	A. Johnson			03MAY13	1215					
8 Data Package (circle if required)					Relinquished by Commercial Carrier:			Date	Time	Received by			Date	Time					
Type I - Full Type VI (Raw Data)					EDD (circle if required) EDFFLAT (default) Other: _____			UPS _____ FedEx _____ Other _____											
					Temperature Upon Receipt _____ °C				Custody Seals Intact? Yes No										

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

May 15, 2013

Project: 351644

Submittal Date: 05/04/2013

Group Number: 1387681

PO Number: 0015115832

Release Number: KAMBIN

State of Sample Origin: CA

Client Sample Description

MW-10-W-130503 Grab Water
MW-11-W-130503 Grab Water
MW-8-W-130503 Grab Water
MW-6-W-130503 Grab Water
MW-7-W-130503 Grab Water
MW-1-W-130503 Grab Water
QA-T-130503 NA Water

Lancaster Labs (LLD) #

7045634
7045635
7045636
7045637
7045638
7045639
7045640

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CRA c/o Gettler-Ryan

Attn: Rachelle Munoz

ELECTRONIC COPY TO

ELECTRONIC COPY TO Chevron c/o CRA

Attn: Report Contact

ELECTRONIC COPY TO

ELECTRONIC COPY TO Chevron

Attn: Anna Avina

ELECTRONIC COPY TO

ELECTRONIC COPY TO CRA

Attn: Nathan Lee

ELECTRONIC COPY TO

Respectfully Submitted,



Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: MW-10-W-130503 Grab Water
Facility# 351644 **Job#** 385645 GRD
 96 MacArthur Blvd-Oakland T0600101493

LLI Sample # WW 7045634
LLI Group # 1387681
Account # 10904

Project Name: 351644

Collected: 05/03/2013 10:34 by JL

Chevron

L4310

Submitted: 05/04/2013 09:30

6001 Bollinger Canyon Rd.

Reported: 05/15/2013 15:51

San Ramon CA 94583

MBO10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	N.D.	3.0	1
Wet Chemistry EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	8,200	250	5
00228	Sulfate	14808-79-8	30,100	1,500	5
SM 3500-Fe B modified-1997			ug/l	ug/l	
08344	Ferrous Iron	n.a.	10	10	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	F131332AA	05/13/2013 10:51	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131332AA	05/13/2013 10:51	Anita M Dale	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131330028A	05/14/2013 00:34	Glorines Suarez-Rivera	1
00368	Nitrate Nitrogen	EPA 300.0	1	13124655601A	05/04/2013 13:13	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13124655601A	05/04/2013 13:13	Christopher D Meeks	5
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13127834401A	05/07/2013 18:40	Daniel S Smith	1

Sample Description: MW-11-W-130503 Grab Water
Facility# 351644 **Job#** 385645 GRD
96 MacArthur Blvd-Oakland T0600101493

LLI Sample # WW 7045635
LLI Group # 1387681
Account # 10904

Project Name: 351644

Collected: 05/03/2013 10:49 by JL Chevron
 L4310
 Submitted: 05/04/2013 09:30 6001 Bollinger Canyon Rd.
 Reported: 05/15/2013 15:51 San Ramon CA 94583

MBO11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous SW-846 8015B modified ug/l					
07105	Methane	74-82-8	N.D.	3.0	1
Wet Chemistry EPA 300.0 ug/l					
00368	Nitrate Nitrogen	14797-55-8	410	250	5
00228	Sulfate	14808-79-8	59,000	1,500	5
SM 3500-Fe B modified-1997 ug/l					
08344	Ferrous Iron	n.a.	N.D.	10	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	F131332AA	05/13/2013 11:12	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131332AA	05/13/2013 11:12	Anita M Dale	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131330028A	05/14/2013 01:10	Glorines Suarez-Rivera	1
00368	Nitrate Nitrogen	EPA 300.0	1	13124655601A	05/04/2013 13:28	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13124655601A	05/04/2013 13:28	Christopher D Meeks	5
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13127834401A	05/07/2013 18:40	Daniel S Smith	1

Sample Description: **MW-8-W-130503 Grab Water**
Facility# 351644 Job# 385645 GRD
96 MacArthur Blvd-Oakland T0600101493

LLI Sample # **WW 7045636**
 LLI Group # **1387681**
 Account # **10904**

Project Name: **351644**

Collected: 05/03/2013 09:10 by JL Chevron
 L4310
 Submitted: 05/04/2013 09:30 6001 Bollinger Canyon Rd.
 Reported: 05/15/2013 15:51 San Ramon CA 94583

MBO08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	0.7	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	5.7	3.0	1
Wet Chemistry EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	960	250	5
00228	Sulfate	14808-79-8	60,900	1,500	5
SM 3500-Fe B modified-1997			ug/l	ug/l	
08344	Ferrous Iron	n.a.	77	10	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	F131332AA	05/13/2013 11:34	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131332AA	05/13/2013 11:34	Anita M Dale	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131330028A	05/14/2013 01:27	Glorines Suarez-Rivera	1
00368	Nitrate Nitrogen	EPA 300.0	1	13124655601A	05/04/2013 12:27	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13124655601A	05/04/2013 12:27	Christopher D Meeks	5
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13127834401A	05/07/2013 18:40	Daniel S Smith	1

Sample Description: MW-6-W-130503 Grab Water
Facility# 351644 **Job#** 385645 GRD
 96 MacArthur Blvd-Oakland T0600101493

LLI Sample # WW 7045637
LLI Group # 1387681
Account # 10904

Project Name: 351644

Collected: 05/03/2013 09:37 by JL Chevron
 L4310
 Submitted: 05/04/2013 09:30 6001 Bollinger Canyon Rd.
 Reported: 05/15/2013 15:51 San Ramon CA 94583

MBO06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	1	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	48	3.0	1
Wet Chemistry EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	29,200	1,500	5
SM 3500-Fe B modified-1997			ug/l	ug/l	
08344	Ferrous Iron	n.a.	N.D.	10	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	F131332AA	05/13/2013 11:55	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131332AA	05/13/2013 11:55	Anita M Dale	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131330028A	05/14/2013 01:45	Glorines Suarez-Rivera	1
00368	Nitrate Nitrogen	EPA 300.0	1	13124655601A	05/04/2013 12:58	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13124655601A	05/04/2013 12:58	Christopher D Meeks	5
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13127834401A	05/07/2013 18:40	Daniel S Smith	1

Sample Description: MW-7-W-130503 Grab Water
Facility# 351644 **Job#** 385645 GRD
96 MacArthur Blvd-Oakland T0600101493

LLI Sample # WW 7045638
LLI Group # 1387681
Account # 10904

Project Name: 351644

Collected: 05/03/2013 09:22 by JL Chevron
 L4310
 Submitted: 05/04/2013 09:30 6001 Bollinger Canyon Rd.
 Reported: 05/15/2013 15:51 San Ramon CA 94583

MBO07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	8	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	45	3.0	1
Wet Chemistry EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	15,900	1,500	5
SM 3500-Fe B modified-1997			ug/l	ug/l	
08344	Ferrous Iron	n.a.	N.D.	10	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	F131332AA	05/13/2013 12:17	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131332AA	05/13/2013 12:17	Anita M Dale	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131330028A	05/14/2013 02:03	Glorines Suarez-Rivera	1
00368	Nitrate Nitrogen	EPA 300.0	1	13124655601A	05/04/2013 12:43	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13124655601A	05/04/2013 12:43	Christopher D Meeks	5
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13127834401A	05/07/2013 18:40	Daniel S Smith	1

Sample Description: MW-1-W-130503 Grab Water
Facility# 351644 Job# 385645 GRD
96 MacArthur Blvd-Oakland T0600101493

LLI Sample # WW 7045639
LLI Group # 1387681
Account # 10904

Project Name: 351644

Collected: 05/03/2013 11:12 by JL Chevron
 Submitted: 05/04/2013 09:30 L4310
 Reported: 05/15/2013 15:51 6001 Bollinger Canyon Rd.
 San Ramon CA 94583

MBO01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	2	0.5	1
10945	t-Butyl alcohol	75-65-0	37	2	1
10945	C6-C12-TPH-GRO	n.a.	3,800	220	10
10945	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10945	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10945	Ethanol	64-17-5	N.D.	50	1
10945	Ethylbenzene	100-41-4	150	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	3	0.5	1
GC Miscellaneous SW-846 8015B modified			ug/l	ug/l	
07105	Methane	74-82-8	5,700	60	20
Wet Chemistry EPA 300.0			ug/l	ug/l	
00368	Nitrate Nitrogen	14797-55-8	300	250	5
00228	Sulfate	14808-79-8	46,100	1,500	5
SM 3500-Fe B modified-1997			ug/l	ug/l	
08344	Ferrous Iron	n.a.	230	10	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	F131332AA	05/13/2013 12:38	Anita M Dale	1
10945	UST VOCs + GRO by 8260B-Water	SW-846 8260B	1	F131351AA	05/15/2013 08:05	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131332AA	05/13/2013 12:38	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F131351AA	05/15/2013 08:05	Anita M Dale	10
07105	Volatile Headspace Hydrocarbon	SW-846 8015B modified	1	131330028A	05/14/2013 07:36	Ginelle L McQuaid	20
00368	Nitrate Nitrogen	EPA 300.0	1	13124655601A	05/04/2013 13:43	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13124655601A	05/04/2013 13:43	Christopher D Meeks	5

Sample Description: MW-1-W-130503 Grab Water
Facility# 351644 Job# 385645 GRD
96 MacArthur Blvd-Oakland T0600101493

LLI Sample # WW 7045639
LLI Group # 1387681
Account # 10904

Project Name: 351644

Collected: 05/03/2013 11:12 by JL

Chevron

L4310

Submitted: 05/04/2013 09:30

6001 Bollinger Canyon Rd.

Reported: 05/15/2013 15:51

San Ramon CA 94583

MBO01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08344	Ferrous Iron	SM 3500-Fe B modified-1997	1	13127834401A	05/07/2013 18:40	Daniel S Smith	1

Sample Description: QA-T-130503 NA Water
 Facility# 351644 Job# 385645 GRD
 96 MacArthur Blvd-Oakland T0600101493

LLI Sample # WW 7045640
 LLI Group # 1387681
 Account # 10904

Project Name: 351644

Collected: 05/03/2013

Chevron

Submitted: 05/04/2013 09:30

L4310

Reported: 05/15/2013 15:51

6001 Bollinger Canyon Rd.
 San Ramon CA 94583

MBOQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	C6-C12-TPH-GRO	n.a.	N.D.	22	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	GRO/BTEX/MTBE 8260 Water	SW-846 8260B	1	F131332AA	05/13/2013 12:59	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131332AA	05/13/2013 12:59	Anita M Dale	1

Quality Control Summary

Client Name: Chevron
Reported: 05/15/13 at 03:51 PM

Group Number: 1387681

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: F131332AA	Sample number(s): 7045634-7045640							
Benzene	N.D.	0.5	ug/l	94	94	77-121	0	30
t-Butyl alcohol	N.D.	2.	ug/l	94	93	75-120	0	30
C6-C12-TPH-GRO	N.D.	22.	ug/l	118	121	80-160	3	30
1,2-Dibromoethane	N.D.	0.5	ug/l	94	93	76-120	1	30
1,2-Dichloroethane	N.D.	0.5	ug/l	100	101	64-130	1	30
Ethanol	N.D.	50.	ug/l	100	102	54-149	2	30
Ethylbenzene	N.D.	0.5	ug/l	95	94	79-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94	94	68-121	1	30
Toluene	N.D.	0.5	ug/l	95	92	79-120	3	30
Xylene (Total)	N.D.	0.5	ug/l	96	96	77-120	0	30
Batch number: F131351AA	Sample number(s): 7045639							
C6-C12-TPH-GRO	N.D.	22.	ug/l	114	114	80-160	0	30
Batch number: 131330028A	Sample number(s): 7045634-7045639							
Methane	N.D.	3.0	ug/l	109		80-120		
Batch number: 13124655601A	Sample number(s): 7045634-7045639							
Nitrate Nitrogen	N.D.	50.	ug/l	100	103	90-110	3	20
Sulfate	N.D.	300.	ug/l	103	104	90-110	1	20
Batch number: 13127834401A	Sample number(s): 7045634-7045639							
Ferrous Iron	N.D.	10.	ug/l	101		93-105		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 131330028A	Sample number(s): 7045634-7045639 UNSPK: P045093								
Methane	89	92	35-157	3	20				
Batch number: 13124655601A	Sample number(s): 7045634-7045639 UNSPK: P041925 BKG: P041925								
Nitrate Nitrogen	102		90-110			N.D.	N.D.	0 (1)	20
Sulfate	104		90-110			N.D.	N.D.	0 (1)	20
Batch number: 13127834401A	Sample number(s): 7045634-7045639 UNSPK: P046804 BKG: P046804								
Ferrous Iron	96	93	81-112	2	6	152,000	146,000	4 (1)	5

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 05/15/13 at 03:51 PM

Group Number: 1387681

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
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Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs + GRO by 8260B-Water
Batch number: F131332AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7045634	100	98	100	98
7045635	100	99	98	97
7045636	101	103	100	97
7045637	101	98	100	95
7045638	101	102	99	97
7045639	100	98	99	100
7045640	100	98	100	95
Blank	104	101	100	97
LCS	101	104	99	98
LCSD	102	102	98	96

Limits: 80-116 77-113 80-113 78-113

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 131330028A

	Propene
7045634	91
7045635	87
7045636	91
7045637	89
7045638	88
7045639	111
Blank	101
LCS	104
MS	91
MSD	79

Limits: 42-131

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 10904

For Eurofins Lancaster Laboratories use only
 Group # 1387681 Sample # 1045634-40
Instructions on reverse side correspond with circled numbers.

050313-03

1 Client Information				4 Matrix			5 Analyses Requested										6 Remarks	
Facility # <u>SS#351644-OML G-R#385645</u> <small>WBS</small> Global ID# <u>T0600101493</u> Site Address <u>96 MACARTHUR BLVD., OAKLAND, CA</u> Chevron PM <u>RK</u> <small>CRALN</small> <u>Lee</u> <small>Lead Consultant</small> G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568 Consultant/Office <u>Deanna L. Harding (deanna@grinc.com)</u> Consultant Project # <u>925-551-7555</u> <u>925-551-7899</u> Consultant Phone <u>(925) 849-1003 x</u> Sampler <u>JOE LEWIS</u>				<input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil			Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO/G-MS 8015 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> <u>METHANE (8015)</u> Oxygenates Total Lead Method Dissolved Lead Method <u>TBA/EDB/EDC (8260B)</u> <u>ETHANOL (8260B)</u> <u>NITRATE/SULFATE (EPA 300.0)</u> <u>Ferrous Iron (SM20 3500 FeB)</u>										SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits	
2 Sample Identification		Soil Depth	3 Collected		Grab	Composite												
			Date	Time														
<u>MW-10</u>			<u>5/3/13</u>	<u>1034</u>			water											
<u>MW-11</u>				<u>1049</u>			↓											
<u>MW-8</u>				<u>0910</u>			↓											
<u>MW-6</u>				<u>0937</u>			↓											
<u>MW-7</u>				<u>0922</u>			↓											
<u>MW-1</u>				<u>1112</u>			↓											
<u>QA</u>			<u>NA</u>	<u>NA</u>			↓											
7 Turnaround Time Requested (TAT) (please circle)			Relinquished by <u>Joe R. Lewis</u>		Date <u>5/3/13</u>	Time <u>1215</u>	Received by <u>A. Nelson</u>		Date <u>03MAY13</u>	Time <u>1215</u>								
<input checked="" type="radio"/> Standard 5 day <input type="radio"/> 72 hour 48 hour <input type="radio"/> 4 day <input type="radio"/> 24 hour			Relinquished by <u>A. Nelson</u>		Date <u>03MAY13</u>	Time <u>1630</u>	Received by <u>FEDEX</u>		Date	Time								
8 Data Package (circle if required)			Relinquished by Commercial Carrier:		Temperature Upon Receipt <u>0.3-1.4 °C</u>		Received by <u>Pat G</u>		Date <u>5/4/13</u>	Time <u>0930</u>	Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No							
<input type="checkbox"/> Type I - Full <input type="checkbox"/> Type VI (Raw Data)			<input checked="" type="checkbox"/> EDD (circle if required) <input type="checkbox"/> EDFFLAT (default) Other: _____		UPS _____ FedEx <input checked="" type="checkbox"/> Other _____													

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

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	

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	

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	--	--	

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
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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-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	--	

Table 2
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-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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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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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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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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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	

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-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	

Table 2
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-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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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														
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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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	

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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	

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			Ethylene-	1,2-DCA				pH	Post-purge	Pre-purge	Pre-purge	
	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	dibromide (EDB) (µg/l)	(EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	(lab) (pH)	Dissolved Oxygen (mg/l)	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

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.

ATTACHMENT D

OZONE INJECTION SYSTEM O & M REPORT

1036 W. Taft Avenue
Orange, California 92865
Tel 714-919-6500
Fax 714-919-6501
www.environstrategy.com

March 26, 2013

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

Project No. 696-A

First Quarter 2013
Ozone Injection System O&M Report
76 Service Station No. 1871 (351644)
96 MacArthur Boulevard
Oakland, California

Dear Mr. Lee:

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). The ozone injection system was shut down on March 15, 2013.

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



First Quarter 2013 O&M Report
76 Service Station No. 1871 (351644)
March 26, 2013

Ozone Injection System

KVA Ozone Injection System

Reporting Period: December 1, 2012 – March 15, 2013

Days of Operation: Operated 105 days during the period

Hours of Operation: 2,541

System Operation Data Since Startup on June 23, 2003:

Total Hours of Operation: 59,651

Notes: First Quarter 2013 – Period hours includes dates November 29, 2012 to March 15, 2013.

Attachments: Figure - Site Plan

Table 1 - Ozone Injection - System Operation Data

Table 2 - Ozone Injection - Groundwater Monitoring Data

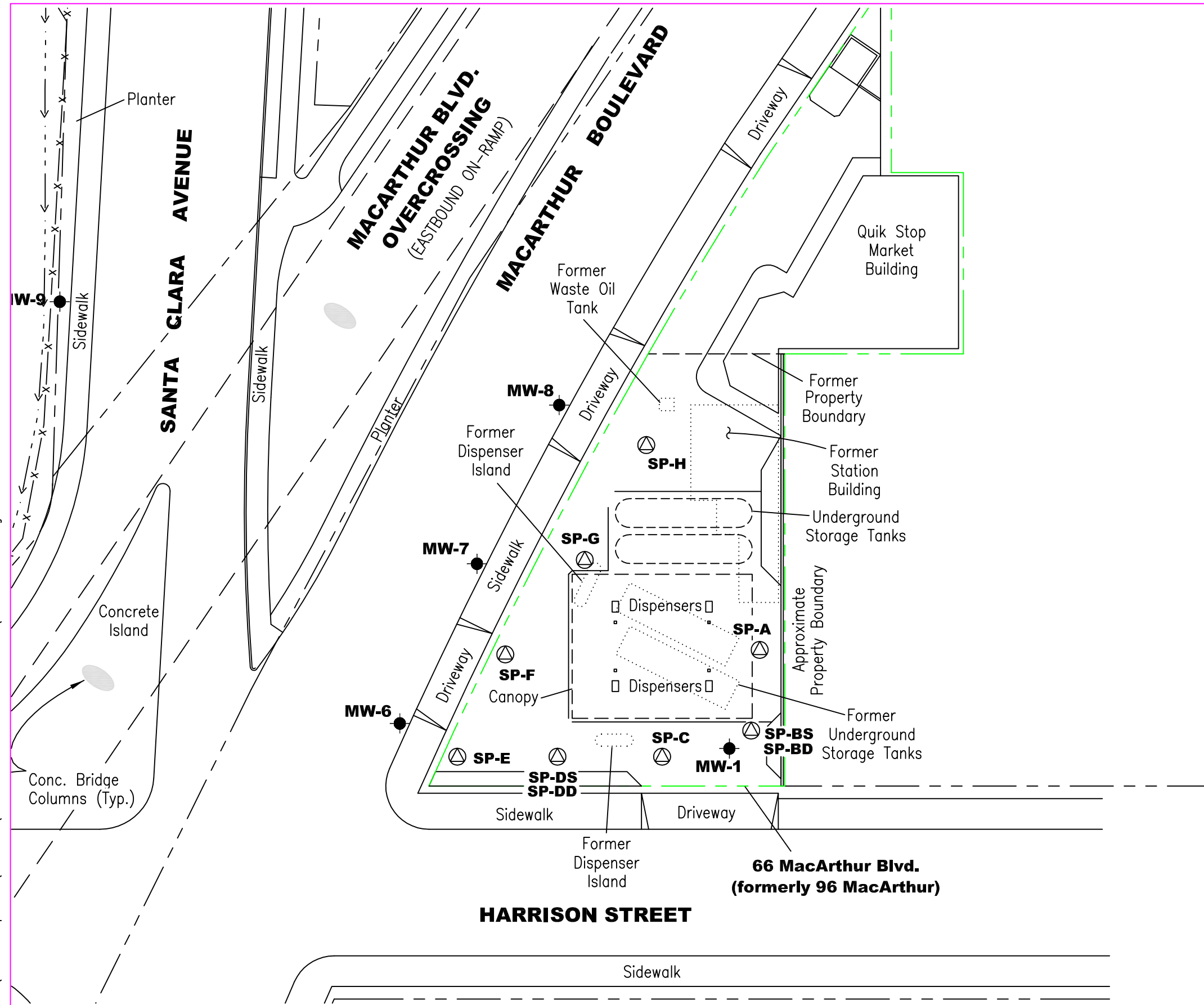
Graph 1 - MW-1 TPHg, Benzene, and MTBE Groundwater Concentrations

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

Appendix A - Field Notes

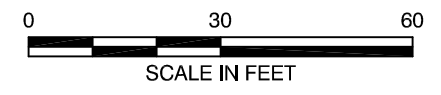
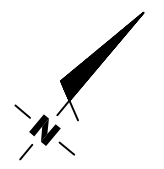
Figure

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



EXPLANATION

● Groundwater monitoring well



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

Tables

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California
Page 1 of 5

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 Reading	Period Online Factor	Cumulative Online Factor	Ozone Injected (lbs)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)
		Arrival	Departure					Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (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
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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 Reading	Period Online Factor	Cumulative Online Factor	Ozone Injected (lbs)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)
		Arrival	Departure														
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)
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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 Reading	Period Online Factor	Cumulative Online Factor	Ozone Injected (lbs)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)
		Arrival	Departure														
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
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
9/27/12		On	On	47,514	1.00	0.77	6.04	18	14	19	22	18	15	16	17	16	17
10/25/12		On	On	48,190	1.00	0.77	6.08	26	19	24	26	22	25	20	23	24	20

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871 (351644)
96 MacArthur Blvd., Oakland, California
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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 Reading	Period Online Factor	Cumulative Online Factor	Ozone Injected (lbs)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	Pressure (psi)	
		Arrival	Departure															
11/29/12		On	On	49,033	1.00	0.77	7.59	22	17	25	30	20	24	20	21	27	23	
12/27/12		On	On	49,703	1.00	0.77	6.03	25	20	22	30	21	23	18	23	30	21	
1/31/13		On	On	50,547	1.00	0.77	7.60	21	17	20	29	22	21	18	20	28	18	
2/28/13		On	On	51,217	1.00	0.78	6.03	19	15	19	22	17	16	16	13	20	14	
3/15/13		On	Off	51,574	0.99	0.78	3.21	32	30	25	28	43	29	22	27	30	25	
(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	20
Reporting Period: First Quarter 2013 (12/01/2012 to 03/15/2013)																		
Total Hours Operational: 59,651																		
Total Pounds Ozone Injected: 537																		
Period Hours Operational: 2,541																		
Period Percent Operational: 100%																		
Period Pounds Ozone Injected: 23																		

Table 1
Ozone Injection - System Operation Data
76 Service Station No. 1871 (351644)
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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.

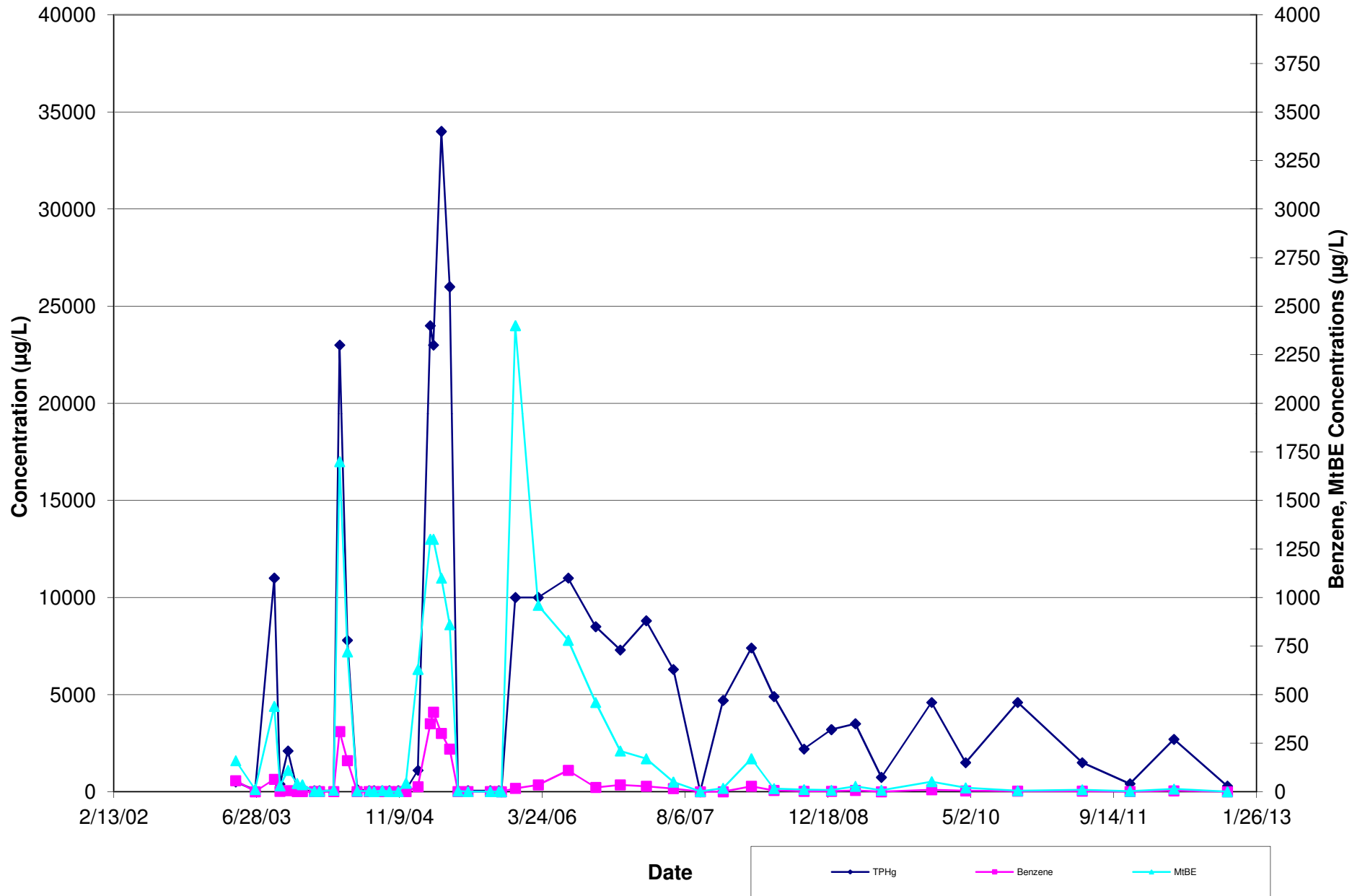
August 3, 2009 - Ozone down by request of COP PM

November 4, 2009 - System restarted

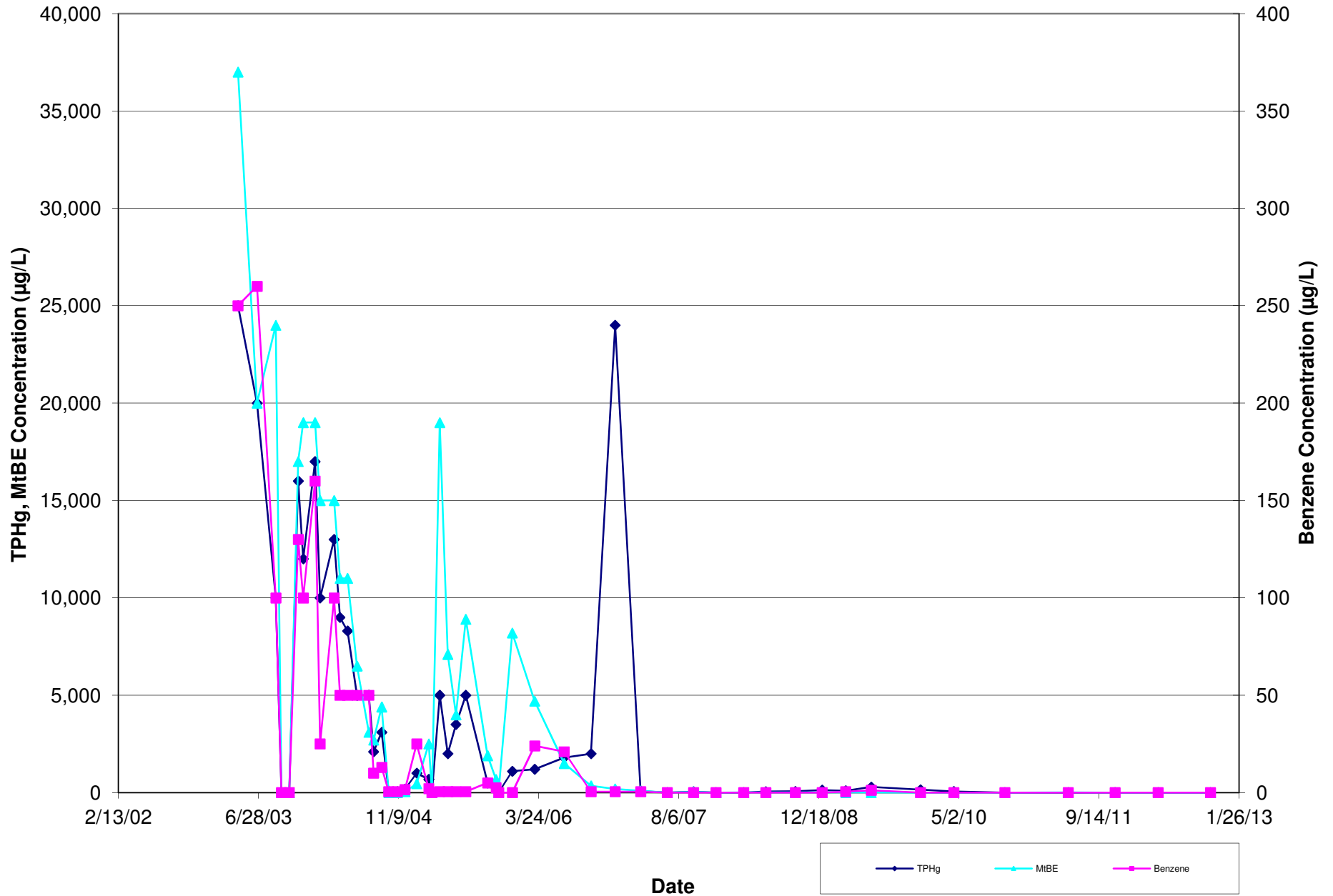
a Troubleshooting time counter
b Hourmeter replaced
c Solenoid 8 has high pressure, taken offline
d Solenoid 3 leaking, taken off line
e Pressures not properly recorded
f Ozone generator hose ruptured on effluent side to solenoid manifold. No Readings.
g System down due to bad GFI
h New GFI was installed.
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.

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

CRA-Tuesday-JWD

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	Temp.	Run Time	Flow Rate	Pressure	Temp.	Run Time	Flow Rate	Pressure	Temp.	Run Time	Flow Rate
					(psi)	(°F)	(min)	(acfm)	(psi)	(°F)	(min)	(acfm)	(psi)	(°F)	(min)	(acfm)
27 Dec 12		on/na	20	49703	25		7		20		7		22		7	
31 Jan 13		on/na	20	50547	21		7		17		7		20		7	
28 Feb 13		on/na	20	51217	19		7		15		7		19		7	
15 Mar 13		on/na	20	51514	32		7		30		7		25		7	

Date	Well I.D. SP-C				Well I.D. SP-DS				Well I.D. SP-DD				Well I.D. SP-E			
	Pressure	Temp.	Run Time	Flow Rate	Pressure	Temp.	Run Time	Flow Rate	Pressure	Temp.	Run Time	Flow Rate	Pressure	Temp.	Run Time	Flow Rate
	(psi)	(°F)	(min)	(acfm)	(psi)	(°F)	(min)	(acfm)	(psi)	(°F)	(min)	(acfm)	(psi)	(°F)	(min)	(acfm)
27 Dec 12	30		7		21		7		23		7		18		7	
31 Jan 13	29		7		22		7		21		7		18		7	
28 Feb 13	22		7		17		7		16		7		16		7	
15 Mar 13	28		7		43		7		29		7		22		7	

Date	Well I.D. SP-F				Well I.D. SP-G				Well I.D. SP-H				Well I.D.			
	Pressure	Temp.	Run Time	Flow Rate	Pressure	Temp.	Run Time	Flow Rate	Pressure	Temp.	Run Time	Flow Rate	Pressure	Temp.	Run Time	Flow Rate
	(psi)	(°F)	(min)	(acfm)	(psi)	(°F)	(min)	(acfm)	(psi)	(°F)	(min)	(acfm)	(psi)	(°F)	(min)	(acfm)
27 Dec 12	23		7		30		7		21		7					
31 Jan 13	20		7		28		7		18		7					
28 Feb 13	13		7		20		7		14		7					
15 Mar 13	27		7		30		7		25		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
27 Dec 12	OK	OK	OK	OK	N/A	OK	N/A	N/A	OK	15 Mar 13 - sys shut
31 Jan 13	OK	OK	OK	OK	N/A	OK	N/A	N/A	OK	down by request of
28 Feb 13	OK	OK	OK	OK	N/A	OK	N/A	N/A	OK	CRA Staff
15 Mar 13	OK	OK	OK	OK	N/A	OK	N/A	N/A	OK	