Roya C. Kambin
Project Manager
Marketing Business Unit

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

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

Re: TOSCO 76 #3737/Chevron
Union Oil Company of California Site 351780
1400 Powell Street
Emeryville, CA

I have reviewed the attached report dated April 11, 2012.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

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

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

Sincerely,

Roya Kambin
Union Oil of California – Project Manager

Attachment: Report

CONESTOGA-ROVERS & ASSOCIATES

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
http://www.craworld.com

April 11, 2012 Reference No. 060716

Mr. Mark Detterman
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: First Quarter 2012
Groundwater Monitoring and Sampling Report
TOSCO 76 #3737/Chevron
Union Oil Company of California Site 351780
1400 Powell Street
Emeryville, California
Fuel Leak Case RO0067

Dear Mr. Detterman:

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 pleased to submit the *First Quarter 2012 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1). Groundwater monitoring and sampling was performed by TRC Solutions (TRC) of Irvine, California. TRC's February 29, 2012 *Groundwater Monitoring Data* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Laboratory analyses were performed by BC Laboratories, Inc. (BC Labs) of Bakersfield, California. BC Labs March 7, 2012 report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF FIRST QUARTER 2012 EVENT

On February 19, 2012, TRC monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction (Figures 2 and 3) Northwest (shallow zone), south (deep zone)
- Hydraulic Gradient 0.06 (shallow zone) and 0.05 (deep zone)
- Approximate Depths to Groundwater 6 feet below grade (fbg) (shallow zone) and 7 fbg (deep zone)

A summary of the results from the current sampling event are presented below in Table A:

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	TPHmo (µg/L)	TPHd (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
ESLs	***100***	***100***	***100***	***1***	***40***	***30***	***20***	***5***
MW-1A	<100	**610**	**1,300**	**20**	0.91	6.8	2.5	**59**
MW-2A	<100	**450**	**2,000**	**460**	5.1	**40**	5.8	**280**
MW-3A	<1,000	**1,400**	**1,900**	**60**	2.1	**41**	2.1	0.71
MW-1B	<100	<40	<50	<0.50	<0.50	<0.50	<1.0	0.87
MW-2B	<100	<40	<50	<0.50	<0.50	<0.50	<1.0	3.1
MW-3B	<100	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50

TPHmo	Total petroleum hydrocarbons as motor oil
TPHd	Total petroleum hydrocarbons as diesel
TPHg	Total petroleum hydrocarbons as gasoline
MTBE	Methyl tertiary butyl ether
ESLs	Environmental Screening Levels from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, California Regional Water Quality Control Board-San Francisco Bay Region, Interim Final November 2007, Revised May 2008
µg/L	Micrograms per Liter
<0.50	Not detected at or above the laboratory method detection limit indicated
Bold	Concentration exceeds applicable ESL

CONCLUSIONS AND RECOMMENDATIONS

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

- Dissolved petroleum hydrocarbons are vertically delineated by deep water-bearing zone wells MW-1B, MW-2B, MW-3B.
- TPHmo was not detected in any of the site wells.
- TPHd was detected in wells MW-1A, MW-2A and MW-3A above the ESL. The laboratory reported chromatograms not typical of diesel range hydrocarbons.
- TPHg and benzene were detected above ESLs in shallow water-bearing zone wells, but were not detected in any of the deeper zone wells.
- Shallow zone wells show stable concentration trends.

CRA recommends continuing quarterly monitoring and sampling of wells MW-1A, MW-2A and MW-3A to establish decreasing dissolved hydrocarbon concentration trends. CRA recommends sampling of wells MW-1B, MW-2B and MW-3B be reduced to semi-annually during the first and third quarters.

Since January 2011, groundwater samples have been analyzed for volatile organic compounds (VOCs) using EPA Method 8260B full scan. With the exception of the oxygenates and lead scavengers, VOCs have not been detected in wells MW-1B, MW-2B or MW-3B, and for the last two quarters. VOCs reported in wells MW-1A, MW-2A and MW-3A (1,2,4-trimethylbenzene, isopropylbenzene, p-isopropyltoluene, n-butylbenzene, sec-butylbenzene, n-propylbenzene, naphthalene and tert-butylbenzene) were near or below ESLs. CRA recommends discontinuing analysis of full scan VOCs using Method 8260B. This modification will be implemented upon receipt of ACEH's concurrence.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
TRC will monitor and sample site wells per the established schedule and forward the samples to BC Labs for analyses. Upon final results, CRA will submit a groundwater monitoring and sampling report.

CONESTOGA-ROVERS & ASSOCIATES

Please contact Roya Kambin at (925) 790-6270 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

PROFESSIONAL GEOLOGIST
GREG BARCLAY
No. 6260
STATE OF CALIFORNIA

Laura Heberle

Greg Barclay, PG 6260

IH/cw/7
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Chemical Concentration Map (Shallow Zone)
Figure 3	Groundwater Elevation and Chemical Concentration Map (Deep Zone)
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

cc: Ms. Roya Kambin, Union Oil Company of California *(electronic copy)*
Mr. Najmeddin Revan, Property Owner

FIGURES

SOURCE: USGS QUADRANGLE MAP: OAKLAND WEST, CA.

Figure 1

VICINITY MAP
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
Emeryville, California

060716-95(007)GN-EM001 MAR 16/2012

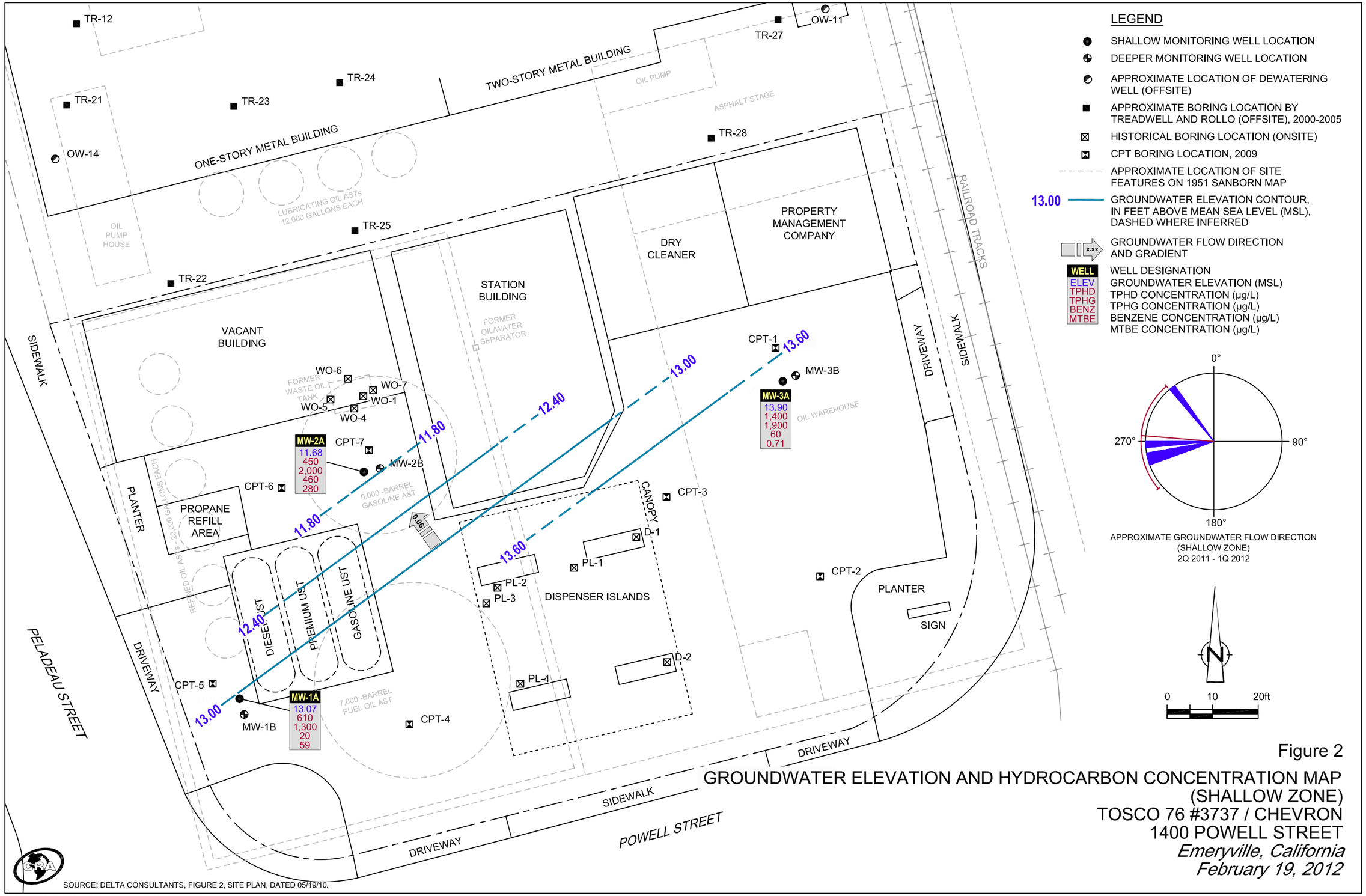
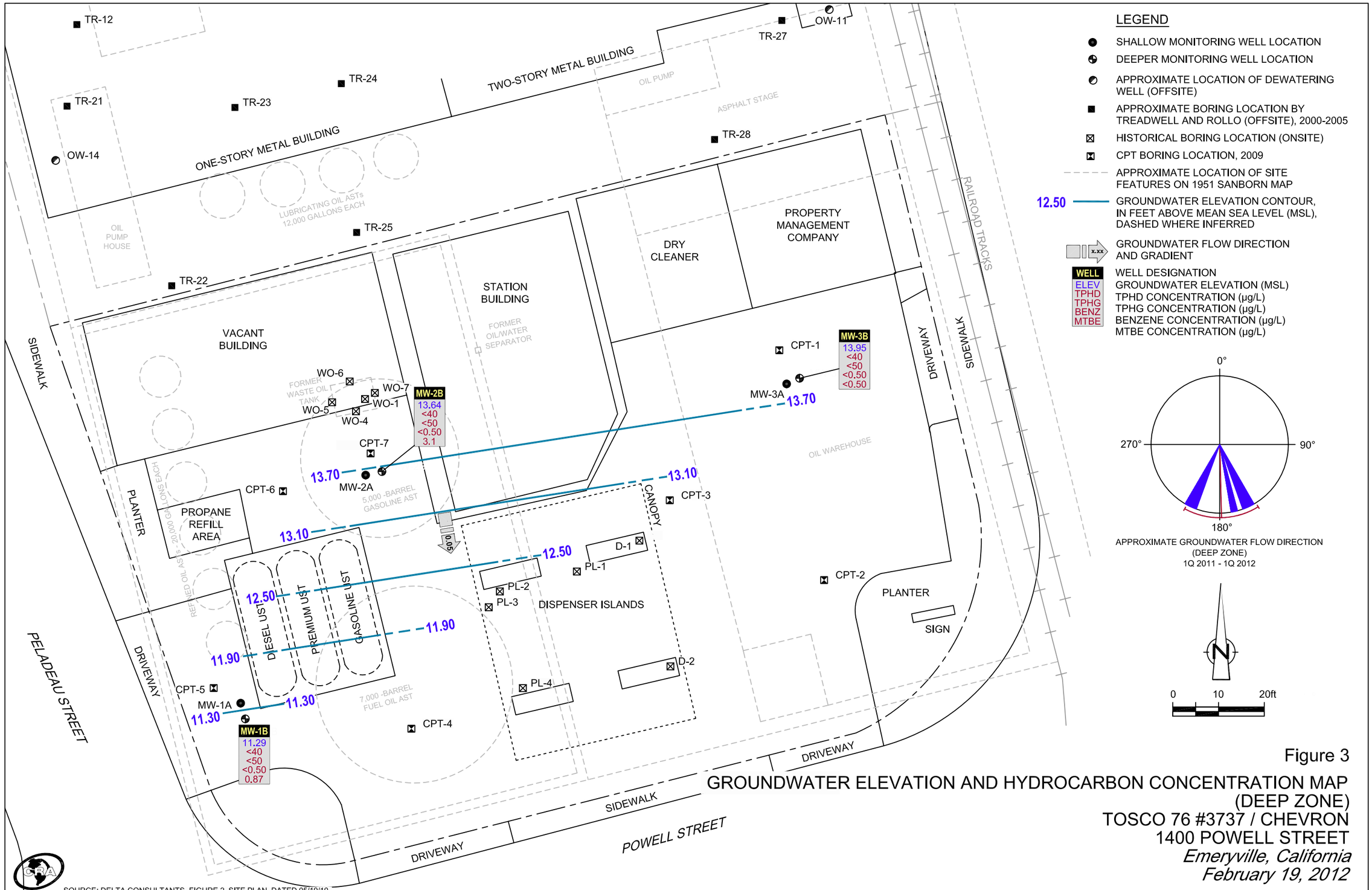


Figure 2

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
(SHALLOW ZONE)
TOSCO 76 #3737 / CHEVRON
1400 POWELL STREET
Emeryville, California
February 19, 2012

SOURCE: DELTA CONSULTANTS, FIGURE 2, SITE PLAN, DATED 05/19/10.

060716-95(007)GN-EM002 APR 11/2012



LEGEND

- SHALLOW MONITORING WELL LOCATION
- DEEPER MONITORING WELL LOCATION
- APPROXIMATE LOCATION OF DEWATERING WELL (OFFSITE)
- APPROXIMATE BORING LOCATION BY TREADWELL AND ROLLO (OFFSITE), 2000-2005
- HISTORICAL BORING LOCATION (ONSITE)
- CPT BORING LOCATION, 2009
- APPROXIMATE LOCATION OF SITE FEATURES ON 1951 SANBORN MAP
- 12.50 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION AND GRADIENT
- WELL — WELL DESIGNATION
  - ELEV — GROUNDWATER ELEVATION (MSL)
  - TPHD — TPHD CONCENTRATION (µg/L)
  - TPHG — TPHG CONCENTRATION (µg/L)
  - BENZ — BENZENE CONCENTRATION (µg/L)
  - MTBE — MTBE CONCENTRATION (µg/L)

APPROXIMATE GROUNDWATER FLOW DIRECTION (DEEP ZONE)
1Q 2011 - 1Q 2012

SOURCE: DELTA CONSULTANTS, FIGURE 2, SITE PLAN, DATED 05/19/10.

Figure 3

GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
(DEEP ZONE)
TOSCO 76 #3737 / CHEVRON
1400 POWELL STREET
Emeryville, California
February 19, 2012

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*											*GENERAL CHEMISTRY*
Location	Date	*TOC*	*DTW*	*GWE*	*TPH - Motor Oil*	*TPH - Diesel*	*TPHg*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*
	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*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-1A	05/01/2011	18.74	5.68	13.06	<200	450	1,100	36	0.86	5.9	1.9	31	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1A	08/28/2011	18.74	5.72	13.02	170	540	840	21	0.68	3.8	1.8	55	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1A	11/20/2011	18.74	5.58	13.16	<100	460	1,300	20	0.74	6.4	<1.0	40	79	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1A	**02/19/2012**	**18.74**	**5.67**	**13.07**	**<100[3]**	**610[4]**	**1,300**	**20**	**0.91**	**6.8**	**2.5**	**59**	**80**	**<0.50**	**<0.50**	**2.0**	**<0.50**	**<0.50**	**<250**
MW-1B	05/01/2011	18.88	8.51	10.37	<200	82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	19	<250
MW-1B	08/28/2011	18.88	8.27	10.61	<100	59	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	18	<250
MW-1B	11/20/2011	18.88	7.88	11.00	<100	69	<50	<0.50	<0.50	<0.50	<1.0	0.55	<10	<0.50	<0.50	<0.50	<0.50	16	<250
MW-1B	**02/19/2012**	**18.88**	**7.59**	**11.29**	**<100**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**0.87**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**26**	**<250**
MW-2A	05/01/2011[1]	18.93	6.40	12.53	<1,000	1,500	2,800	860	4.6	61	12	220	2,500	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2A	08/28/2011[1]	18.93	5.93	13.00	<1,000	1,600	2,300	690	<5.0	53	<10	320	2,100	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500
MW-2A	11/20/2011[1]	18.93	5.73	13.20	<500	1,200	1,800	440	<5.0	50	<10	160	2,200	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500
MW-2A	**02/19/2012[2]**	**18.93**	**7.25**	**11.68**	**<100**	**450[4]**	**2,000**	**460**	**5.1**	**40**	**5.8**	**280**	**3,200**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**
MW-2B	05/01/2011	19.10	7.57	11.53	<200	<50	<50	1.2	<0.50	<0.50	<1.0	3.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2B	08/28/2011	19.10	5.82	13.28	<100	<40	<50	<0.50	<0.50	<0.50	<1.0	2.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2B	11/20/2011	19.10	5.73	13.37	<100	56	<50	<0.50	<0.50	<0.50	<1.0	2.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2B	**02/19/2012**	**19.10**	**5.46**	**13.64**	**<100**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**3.1**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**
MW-3A	05/01/2011	18.62	4.68	13.94	<200	460	2,700	130	2.7	98	3.6	<0.50	<10	<0.50	<0.50	<0.50	<0.50	1.2	<250
MW-3A	08/28/2011	18.62	4.92	13.70	130	440	1,700	39	0.51	28	1.6	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*											*GENERAL CHEMISTRY*
Location	Date	*TOC*	*DTW*	*GWE*	*TPH - Motor Oil*	*TPH - Diesel*	*TPHg*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*
	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*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-3A	11/20/2011	18.62	4.97	13.65	<100	330	1,200	25	0.83	17	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3A	**02/19/2012**	**18.62**	**4.72**	**13.90**	**<1,000**	**1,400[4]**	**1,900**	**60**	**2.1**	**41**	**2.1**	**0.71**	**30**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.80**	**<250**
MW-3B	05/01/2011	18.57	6.68	11.89	<200	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3B	08/28/2011	18.57	7.29	11.28	<100	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3B	11/20/2011	18.57	6.33	12.24	<100	45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3B	**02/19/2012**	**18.57**	**4.62**	**13.95**	**<100**	**<40**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<10**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<250**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*											*GENERAL CHEMISTRY*
Location	Date	*TOC*	*DTW*	*GWE*	*TPH - Motor Oil*	*TPH - Diesel*	*TPHg*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*
	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*	*µg/L*	*µg/L*	*µg/L*	*µg/L*

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

TPH - Total Petroleum Hydrocarbons

TPHg - Total Purgeable Petroleum Hydrocarbons

VOCS = Volatile Organic Compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

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

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
TOSCO 76 #3737/CHEVRON
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*											*GENERAL CHEMISTRY*
Location	Date	*TOC*	*DTW*	*GWE*	*TPH - Motor Oil*	*TPH - Diesel*	*TPHg*	*B*	*T*	*E*	*X*	*MTBE by SW8260*	*TBA*	*ETBE*	*DIPE*	*TAME*	*EDB*	*1,2-DCA*	*Ethanol*
	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*	*µg/L*	*µg/L*	*µg/L*	*µg/L*

<x = Not detected above laboratory method detection limit

1 Well dewatered and only adequate pre-purge groundwater was available for TPH motor oil analysis: two samples collected.

2 Well dewatered and only adequate pre-purge groundwater was available for TPD-motor oil and TPH -diesel aanalysis: two samples collected.

3 Chromatogram not typical of motor oil.

4 Chromatogram not typical of diesel.

ATTACHMENT A

MONITORING DATA PACKAGE

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: February 29, 2012

TO: Michael McDonald
CRA
175 Technology Drive, Suite 150
Irvine, California 92618

SITE: Unocal Site 3737
Facility 351780
1400 Powell Street, Emeryville, CA

RE: Transmittal of Groundwater Monitoring Data

Dear Mr. McDonald,

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on February 19, 2012. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

Please call me at 949-341-7440 if you have questions.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

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

Fluid Level Measurements (Gauging)

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

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

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

Purging and Groundwater Parameter Measurement

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

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

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

Groundwater Sample Collection

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

GENERAL FIELD PROCEDURES

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

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

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

Sequence of Gauging, Purging and Sampling

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

Decontamination

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

Purge Water Disposal

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

Exceptions

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

FIELD MONITORING DATA SHEET

Technician: A. Vidwans Job #/Task #: 189791, 0035, 1780 Date: 2/19/12

Site # 3737 Project Manager AF Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-3B	✓	0818	23.80	4.62	—	—	1104	2"
MW-1B	✓	0823	21.70	7.59	—	—	1133	2"
MW-2B	✓	0827	23.58	5.46	—	—	1153	2"
MW-1A	✓	0831	9.69	5.67	—	—	1143	2"
MW-3A	✓	0835	9.22	4.72	—	—	1122	2"
MW-2A	✓	0839	10.14	7.25	—	—	1214	2"
								Note for MW-2A:
								Pre-purge sample
								collected at 1008
								for TPH-D +
								TPH-MO, was
								submitted to lab.

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidmars

Site: 3737 Project No.: 189791.0035.1780 Date: 2/19/12

Well No. MW-2B Purge Method: Sub

Depth to Water (feet): 5.46 Depth to Product (feet): —

Total Depth (feet) 23.58 LPH & Water Recovered (gallons): —

Water Column (feet): 18.12 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 9.08 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0955	0959		4	1165	18.1	10.98			
			8						
			12						

Static at Time Sampled	Total Gallons Purged	Sample Time
8.88	4	1153

Comments: Dry at 4 gallons. Did not recover in 45 minutes.

Well No. MW-1A Purge Method: HB

Depth to Water (feet): 5.67 Depth to Product (feet): —

Total Depth (feet) 9.69 LPH & Water Recovered (gallons): —

Water Column (feet): 4.02 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 6.47 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0941			1	831.6	16.3	6.96			
	0944		2	843.1	16.5	6.94			
			3						

Static at Time Sampled	Total Gallons Purged	Sample Time
5.82	2	1143

Comments: Dry at 2 gallons. Did not recover in 45 minutes.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidales

Site: 3737 Project No.: 189791.0035.1780 Date: 2/19/12

Well No. MW-3A Purge Method: HB

Depth to Water (feet): 4.72 Depth to Product (feet): —

Total Depth (feet) 9.22 LPH & Water Recovered (gallons): —

Water Column (feet): 4.50 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 5.62 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0918			1	1174	18.5	7.46			
	0922		2	1159	18.7	7.14			
			3						

Static at Time Sampled	Total Gallons Purged	Sample Time
6.39	2	1122

Comments: Dry at 2 gallons. Did not recover in 2 hours.

Well No. MW-2A Purge Method: HB

Depth to Water (feet): 7.25 Depth to Product (feet): —

Total Depth (feet) 10.14 LPH & Water Recovered (gallons): —

Water Column (feet): 2.89 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 7.83 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1008	1013		1	2480	17.9	6.68			
			2						
			3						

Static at Time Sampled	Total Gallons Purged	Sample Time
9.29	1	1214

Comments: Pre-purge sample collected at 1008. Went dry at 1 gallon. Did not recover in 2 hours. Went dry while sampling, submitted pre-purge samples for BTEX analyses.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidvers

Site: 3137 Project No.: 189791.0035.1780 Date: ~~2/18/12~~ 2/19/12

Well No. MW-3B Purge Method: Sub

Depth to Water (feet): 4.62 Depth to Product (feet): —

Total Depth (feet) 23.80 LPH & Water Recovered (gallons): —

Water Column (feet): 19.18 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.46 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0909	0912		4	1311	17.9	6.85			
			8						
			12						

Static at Time Sampled	Total Gallons Purged	Sample Time
6.58	4	1104

Comments: Dry at 4 gallons. Did not recover in 45 minutes.

Well No. MW-1B Purge Method: Sub

Depth to Water (feet): 7.59 Depth to Product (feet): —

Total Depth (feet) 21.70 LPH & Water Recovered (gallons): —

Water Column (feet): 14.11 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 10.41 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0934	0937		3	1282	17.1	7.01			
			6						
			9						

Static at Time Sampled	Total Gallons Purged	Sample Time
9.41	4	1133

Comments: Dry at 4 gallons. Did not recover in 45 minutes.

TRC

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 2/19/12 SITE ID: 3737

TECH: A. Vidaurs CALLED SUPERVISOR: (YES) / NO

CALLED PM: YES / NO NAME OF PM: _____

WELL ID: MW-2A

Well went dry while sampling, unable to collect bottles for 8015 analyses. Pre purge samples were submitted. (post-purge samples submitted for 8260 analyses.)

WELL ID: _____

WELL ID: _____

TRC

WELL BOX CONDITION REPORT

SITE NO. 3737

ADDRESS 1400 Powell st. Emeryville, CA

DATE 2/19/12

PERFOMED BY: A. Viduevs

PAGE 1 OF 1

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-3B	12"	2																		O/K
MW-1B	12"	2																		O/K
MW-2B	12"	2																		O/K
MW-1A	12"	2																		O/K
MW-3A	12"	2																		O/K
MW-2A	12"	2																		O/K

TRC

CHAIN OF CUSTODY FORM

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

COC 1 of 1

Union Oil Site ID: 3737	Union Oil Consultant: CRA
Site Global ID: T0601974573[illegible]	Consultant Contact: Jim Schneider
Site Address: 1400 Powell St. Emeryville, CA	Consultant Phone No.: 949 648 5202
	Sampling Company: TRC
Union Oil PM: Rova Kambin	Sampled By (PRINT): Andrew Vidners
Union Oil PM Phone No.: 425 790 6270	Sampler Signature: [signature]
Charge Code: NWRTB- 0 351780 -0- LAB	**BC Laboratories, Inc.**
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	**Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

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

Special Instructions

SAMPLE ID / ANALYSES REQUIRED

Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015 w/ silica gel cleanup	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TPH-G by 8260B	Full Scan 8260B including OXYs	TPH-Motor Oil by 8015 w/ silica gel cleanup				Notes / Comments
MW-3B	W-S-A		120219	1104	5	X			X		X	X	X				
MW-1B	W-S-A		↓	1133	5	X			X		X	X	X				
MW-2B	W-S-A		↓	1153	5	X			X		X	X	X				
MW-1A	W-S-A		↓	1143	5	X			X		X	X	X				
MW-3A	W-S-A		↓	1122	5	X			X		X	X	X				
MW-2A	W-S-A		↓	1214	3				X		X	X					
MW-2A	W-S-A		↓	1006	2	X							X				
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	TRC	1430 2/19/12						

Received By	Company	Date / Time:	Received By	Company	Date / Time :	Received By	Company	Date / Time:
[signature]	BC Labs	2/22/12 1415						

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID:	3737	**Project No.:**	189791.0035.1780 / 00TA01
Address	1400 Powell Street	**Client:**	Roya Kambin
City:	Emeryville	**Contact #:**	925-790-6270
Cross Street:	Peladeau Street	**PM:**	Jim Schneider CRA
		PM Contact #:	949-648-5202

Total number of wells: 6 **Min. Well Diameter (in.):** **# of Techs, # of Hrs:** 1, 6

Depth to Water (ft.): **Max. Well Diameter (in.):** **Travel Time (hrs):**

Max. Well Depth (ft):

ACTIVITIES:		Frequency	Notes
Gauging:	☑	Quarterly	
Purge/Sampling:	☑	Quarterly	
No Purge/Sample	☐		

RELATED ACTIVITIES		Notes
Drums:	☑	
Other Activities:	☐	
Traffic Control:	☐	

PERMIT INFORMATION:

NOTIFICATIONS:

Station Owner/Operator: Mr. Najmeddin Ravan, 510-653-2251. He is at the station until noon.

SITE INFORMATION:

The site is currently a Chevron station. It can only be sampled on a Sunday per the access agreement.

Prior to gauging, uncap all wells and allow to equilibrate for 15 minutes.

Well MW-2A does not recharge quickly.
- collect a no purge sample (these will be submitted if the well does not recharge after purging)
- then purge and sample the well
- if the well recharges after purging, please collect post-purge samples (submit these to the laboratory and discard the pre-purge samples)

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID:	3737	**Project No.:**	189791.0035.1780 / 00TA01
Address	1400 Powell Street	**Client:**	Roya Kambin
City:	Emeryville	**Contact #:**	925-790-6270
Cross Street:	Peladeau Street	**PM:**	Jim Schneider CRA
		PM Contact #:	949-648-5202

LAB INFORMATION:

Global ID: T06019745736

Lab WO: 351780

Lab Used: BC

Lab Notes: Lab Analyses:
TPH-G by 8260B, Full Scan 8260B including OXYS, Ethanol by 8260B [Containers: 3 voas w/ HCl]
TPH-Diesel by 8015 w/ silica gel cleanup, TPH-Motor Oil by 8015 w/ silica gel cleanup [Container: two 1L ambers unpreserved]

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID.: 3737
Address 1400 Powell Street
City: Emeryville
Cross Street Peladeau Street

			Gauging				Sampling				Field Measurements			
Well IDs	Benz.	MTBE	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	Comments
MW-3B	0	0	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-1B	0	0.55	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-2B	0	2	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-1A	20	40	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-3A	25	0	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-2A	440	160	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 03/07/2012

Laura Heberle

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Project:	3737
BC Work Order:	1203184
Invoice ID:	B117577

Enclosed are the results of analyses for samples received by the laboratory on 2/22/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

CHAIN OF CUSTODY FORM

#12-03184

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

COC 1 of 1

Union Oil Site ID: 3737	Union Oil Consultant: CRA
Site Global ID: T0619745736	Consultant Contact: Jim Schneider
Site Address: 1400 Powell St. Emeryville, CA	Consultant Phone No.: 949 648 5202
Union Oil PM: Roya Kambin	Sampling Company: TRC
Union Oil PM Phone No.: 925 790 6270	Sampled By (PRINT): Andrew Vidners
Charge Code: NWRTEI- 0 351780 -0- LAB	Sampler Signature:

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

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

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

Special Instructions

SAMPLE ID						ANALYSES REQUIRED										
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015 w/ silica gel cleanup	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TPH - G by 8260B	Full Scan 8260B including OXYS	TPH-Motor Oil by 8015 w/ silica gel cleanup			Notes / Comments
MW-3B	W-S-A	-1	120219	1104	5	X			X		X	X	X			
MW-1B	W-S-A	-2		1133	5	X			X		X	X	X			
MW-2B	W-S-A	-3		1153	5	X			X		X	X	X			
MW-1A	W-S-A	-4		1143	5	X			X		X	X	X			
MW-3A	W-S-A	-5		1122	5	X			X		X	X	X			
MW-2A	W-S-A	-6		1214	3				X		X	X				
MW-2A	W-S-A	-7		1008	2	X							X			
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															
	W-S-A															

CHK BY

DISTRIBUTION
SUPER
SUB-OUT

Relinquished By	Company	Date / Time:
	TRC	1430 2/19/12
Mary Bogan	BCLabs	2/22/12 1900
R L Ruy	BCL	2.22.12 2130

Received By	Company	Date / Time:
Mary Bogan	BCLabs	2/22/12 1415
R L Ruy	BCL	2.22.12 1900
	BCL	2-22-12 2130

Chain of Custody and Cooler Receipt Form for 1203184 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 12-03184

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

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

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: QTA Thermometer ID: 177

Temperature: A 0.2 °C / C 1.2 °C

Date/Time 2-22-12 2130

Analyst Init JNW

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

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/23/12@0820

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1203184-01	**COC Number:**	---	**Receive Date:**	02/22/2012 19:30
	Project Number:	3737	**Sampling Date:**	02/19/2012 11:04
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3B-W-120219	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T06019745736			
	Location ID (FieldPoint): MW-3B			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1203184-02	**COC Number:**	---	**Receive Date:**	02/22/2012 19:30
	Project Number:	3737	**Sampling Date:**	02/19/2012 11:33
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1B-W-120219	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T06019745736			
	Location ID (FieldPoint): MW-1B			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1203184-03	**COC Number:**	---	**Receive Date:**	02/22/2012 19:30
	Project Number:	3737	**Sampling Date:**	02/19/2012 11:53
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2B-W-120219	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T06019745736			
	Location ID (FieldPoint): MW-2B			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1203184-04	**COC Number:**	---	**Receive Date:**	02/22/2012 19:30
	Project Number:	3737	**Sampling Date:**	02/19/2012 11:43
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1A-W-120219	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-1A	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1203184-05	**COC Number:**	---	**Receive Date:**	02/22/2012 19:30
	Project Number:	3737	**Sampling Date:**	02/19/2012 11:22
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3A-W-120219	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-3A	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1203184-06	**COC Number:**	---	**Receive Date:**	02/22/2012 19:30
	Project Number:	3737	**Sampling Date:**	02/19/2012 12:14
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2A-W-120219	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-2A	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1203184-07

COC Number: ---
Project Number: 3737
Sampling Location: ---
Sampling Point: MW-2A-W-120219
Sampled By: TRCI

Receive Date: 02/22/2012 19:30
Sampling Date: 02/19/2012 10:08
Sample Depth: ---
Lab Matrix: Water
Sample Type: Water
Delivery Work Order:
Global ID: T06019745736
Location ID (FieldPoint): MW-2A
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

Conestoga Rovers and Associates
10969 Trade Center Drive Suite 107
Rancho Cordova, CA 95670

Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-01 | **Client Sample Name:** 3737, MW-3B-W-120219, 2/19/2012 11:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-01 | **Client Sample Name:** 3737, MW-3B-W-120219, 2/19/2012 11:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-01 | **Client Sample Name:** 3737, MW-3B-W-120219, 2/19/2012 11:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.2	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/27/12	02/27/12 16:12	MGC	MS-V5	1	BVB1794

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1203184-01 | **Client Sample Name:** 3737, MW-3B-W-120219, 2/19/2012 11:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	40	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	ug/L	100	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	84.8	%	37 - 134 (LCL - UCL)	EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	02/25/12	03/06/12 15:21	MWB	GC-2	1	BVC0469

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-02 | **Client Sample Name:** 3737, MW-1B-W-120219, 2/19/2012 11:33:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	**26**	**ug/L**	**0.50**	**EPA-8260**	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-02 | **Client Sample Name:** 3737, MW-1B-W-120219, 2/19/2012 11:33:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**0.87**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-02 | **Client Sample Name:** 3737, MW-1B-W-120219, 2/19/2012 11:33:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.1	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/27/12	02/27/12 16:35	MGC	MS-V5	1	BVB1794

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1203184-02 | **Client Sample Name:** 3737, MW-1B-W-120219, 2/19/2012 11:33:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	40	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	ug/L	100	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	100	%	37 - 134 (LCL - UCL)	EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	02/25/12	03/06/12 15:44	MWB	GC-2	0.980	BVC0469

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-03 | **Client Sample Name:** 3737, MW-2B-W-120219, 2/19/2012 11:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-03 | **Client Sample Name:** 3737, MW-2B-W-120219, 2/19/2012 11:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**3.1**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-03 | **Client Sample Name:** 3737, MW-2B-W-120219, 2/19/2012 11:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.5	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/27/12	02/27/12 16:57	MGC	MS-V5	1	BVB1794

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1203184-03 | **Client Sample Name:** 3737, MW-2B-W-120219, 2/19/2012 11:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	40	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	ug/L	100	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	88.4	%	37 - 134 (LCL - UCL)	EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	02/25/12	03/06/12 16:08	MWB	GC-2	0.980	BVC0469

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-04 | **Client Sample Name:** 3737, MW-1A-W-120219, 2/19/2012 11:43:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**20**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	**4.4**	**ug/L**	**0.50**	**EPA-8260**	ND		1
sec-Butylbenzene	**4.6**	**ug/L**	**0.50**	**EPA-8260**	ND		1
tert-Butylbenzene	**0.59**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-04 | **Client Sample Name:** 3737, MW-1A-W-120219, 2/19/2012 11:43:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	**6.8**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	**25**	**ug/L**	**0.50**	**EPA-8260**	ND		1
p-Isopropyltoluene	**1.9**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**59**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Naphthalene	**0.92**	**ug/L**	**0.50**	**EPA-8260**	ND		1
n-Propylbenzene	**37**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	**0.91**	**ug/L**	**0.50**	**EPA-8260**	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**2.5**	**ug/L**	**1.0**	**EPA-8260**	ND		1
t-Amyl Methyl ether	**2.0**	**ug/L**	**0.50**	**EPA-8260**	ND		1
t-Butyl alcohol	**80**	**ug/L**	**10**	**EPA-8260**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-04 | **Client Sample Name:** 3737, MW-1A-W-120219, 2/19/2012 11:43:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**1300**	**ug/L**	**50**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	109	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/27/12	02/27/12 17:19	MGC	MS-V5	1	BVB1794

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Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1203184-04 | **Client Sample Name:** 3737, MW-1A-W-120219, 2/19/2012 11:43:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**610**	**ug/L**	**40**	**EPA-8015B/FFP**	ND	**A52**	1
TPH - Motor Oil	ND	ug/L	100	EPA-8015B/FFP	ND	A55	1
Tetracosane (Surrogate)	90.2	%	37 - 134 (LCL - UCL)	EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	02/25/12	03/06/12 16:33	MWB	GC-2	0.980	BVC0469

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-05 | **Client Sample Name:** 3737, MW-3A-W-120219, 2/19/2012 11:22:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**60**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	**2.2**	**ug/L**	**0.50**	**EPA-8260**	ND		1
tert-Butylbenzene	**0.63**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	**0.80**	**ug/L**	**0.50**	**EPA-8260**	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-05 | **Client Sample Name:** 3737, MW-3A-W-120219, 2/19/2012 11:22:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	**41**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	**18**	**ug/L**	**0.50**	**EPA-8260**	ND		1
p-Isopropyltoluene	**2.0**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**0.71**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Naphthalene	**0.87**	**ug/L**	**0.50**	**EPA-8260**	ND		1
n-Propylbenzene	**16**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	**2.1**	**ug/L**	**0.50**	**EPA-8260**	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**2.1**	**ug/L**	**1.0**	**EPA-8260**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	**30**	**ug/L**	**10**	**EPA-8260**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-05 | **Client Sample Name:** 3737, MW-3A-W-120219, 2/19/2012 11:22:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**1900**	**ug/L**	**50**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.4	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	106	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	114	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/27/12	02/27/12 17:42	MGC	MS-V5	1	BVB1794

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1203184-05 | **Client Sample Name:** 3737, MW-3A-W-120219, 2/19/2012 11:22:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**1400**	**ug/L**	**400**	**EPA-8015B/FFP**	ND	**A01,A52**	1
TPH - Motor Oil	ND	ug/L	1000	EPA-8015B/FFP	ND	A01	1
Tetracosane (Surrogate)	95.4	%	37 - 134 (LCL - UCL)	EPA-8015B/FFP		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	02/25/12	03/06/12 21:46	MWB	GC-2	10	BVC0469

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Reported: 03/07/2012 11:48
Project: 3737
Project Number: 351780
Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-06 | **Client Sample Name:** 3737, MW-2A-W-120219, 2/19/2012 12:14:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**460**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		2
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		2
Bromoform	ND	ug/L	0.50	EPA-8260	ND		2
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		2
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
sec-Butylbenzene	**2.6**	**ug/L**	**0.50**	**EPA-8260**	ND		2
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		2
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Chloroform	ND	ug/L	0.50	EPA-8260	ND		2
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		2
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		2
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		2
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		2
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		2
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		2
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2

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Project Manager: Laura Heberle

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-06 | **Client Sample Name:** 3737, MW-2A-W-120219, 2/19/2012 12:14:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		2
Ethylbenzene	**40**	**ug/L**	**0.50**	**EPA-8260**	ND		2
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		2
Isopropylbenzene	**13**	**ug/L**	**0.50**	**EPA-8260**	ND		2
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		2
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		2
Methyl t-butyl ether	**280**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	1
Naphthalene	**3.9**	**ug/L**	**0.50**	**EPA-8260**	ND		2
n-Propylbenzene	**12**	**ug/L**	**0.50**	**EPA-8260**	ND		2
Styrene	ND	ug/L	0.50	EPA-8260	ND		2
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Toluene	**5.1**	**ug/L**	**0.50**	**EPA-8260**	ND		2
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2,4-Trimethylbenzene	**1.2**	**ug/L**	**0.50**	**EPA-8260**	ND		2
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		2
Total Xylenes	**5.8**	**ug/L**	**1.0**	**EPA-8260**	ND		2
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		2
t-Butyl alcohol	**3200**	**ug/L**	**100**	**EPA-8260**	ND	**A01**	1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Ethanol	ND	ug/L	250	EPA-8260	ND		2

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1203184-06 | **Client Sample Name:** 3737, MW-2A-W-120219, 2/19/2012 12:14:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Total Purgeable Petroleum Hydrocarbons	**2000**	**ug/L**	**500**	**Luft-GC/MS**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	95.4	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	91.4	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	106	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	98.7	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/27/12	02/28/12 13:18	MGC	MS-V5	10	BVB1794
2	EPA-8260	02/27/12	02/28/12 05:59	MGC	MS-V5	1	BVB1794

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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1203184-07 | **Client Sample Name:** 3737, MW-2A-W-120219, 2/19/2012 10:08:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**450**	**ug/L**	**40**	**EPA-8015B/FFP**	ND	**A52**	1
TPH - Motor Oil	ND	ug/L	100	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	91.4	%	37 - 134 (LCL - UCL)	EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	02/25/12	03/06/12 17:21	MWB	GC-2	0.960	BVC0469

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB1794						
Benzene	BVB1794-BLK1	ND	ug/L	0.50		
Bromobenzene	BVB1794-BLK1	ND	ug/L	0.50		
Bromochloromethane	BVB1794-BLK1	ND	ug/L	0.50		
Bromodichloromethane	BVB1794-BLK1	ND	ug/L	0.50		
Bromoform	BVB1794-BLK1	ND	ug/L	0.50		
Bromomethane	BVB1794-BLK1	ND	ug/L	1.0		
n-Butylbenzene	BVB1794-BLK1	ND	ug/L	0.50		
sec-Butylbenzene	BVB1794-BLK1	ND	ug/L	0.50		
tert-Butylbenzene	BVB1794-BLK1	ND	ug/L	0.50		
Carbon tetrachloride	BVB1794-BLK1	ND	ug/L	0.50		
Chlorobenzene	BVB1794-BLK1	ND	ug/L	0.50		
Chloroethane	BVB1794-BLK1	ND	ug/L	0.50		
Chloroform	BVB1794-BLK1	ND	ug/L	0.50		
Chloromethane	BVB1794-BLK1	ND	ug/L	0.50		
2-Chlorotoluene	BVB1794-BLK1	ND	ug/L	0.50		
4-Chlorotoluene	BVB1794-BLK1	ND	ug/L	0.50		
Dibromochloromethane	BVB1794-BLK1	ND	ug/L	0.50		
1,2-Dibromo-3-chloropropane	BVB1794-BLK1	ND	ug/L	1.0		
1,2-Dibromoethane	BVB1794-BLK1	ND	ug/L	0.50		
Dibromomethane	BVB1794-BLK1	ND	ug/L	0.50		
1,2-Dichlorobenzene	BVB1794-BLK1	ND	ug/L	0.50		
1,3-Dichlorobenzene	BVB1794-BLK1	ND	ug/L	0.50		
1,4-Dichlorobenzene	BVB1794-BLK1	ND	ug/L	0.50		
Dichlorodifluoromethane	BVB1794-BLK1	ND	ug/L	0.50		
1,1-Dichloroethane	BVB1794-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVB1794-BLK1	ND	ug/L	0.50		
1,1-Dichloroethene	BVB1794-BLK1	ND	ug/L	0.50		
cis-1,2-Dichloroethene	BVB1794-BLK1	ND	ug/L	0.50		
trans-1,2-Dichloroethene	BVB1794-BLK1	ND	ug/L	0.50		
Total 1,2-Dichloroethene	BVB1794-BLK1	ND	ug/L	1.0		
1,2-Dichloropropane	BVB1794-BLK1	ND	ug/L	0.50		
1,3-Dichloropropane	BVB1794-BLK1	ND	ug/L	0.50		
2,2-Dichloropropane	BVB1794-BLK1	ND	ug/L	0.50		
1,1-Dichloropropene	BVB1794-BLK1	ND	ug/L	0.50		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB1794						
cis-1,3-Dichloropropene	BVB1794-BLK1	ND	ug/L	0.50		
trans-1,3-Dichloropropene	BVB1794-BLK1	ND	ug/L	0.50		
Total 1,3-Dichloropropene	BVB1794-BLK1	ND	ug/L	1.0		
Ethylbenzene	BVB1794-BLK1	ND	ug/L	0.50		
Hexachlorobutadiene	BVB1794-BLK1	ND	ug/L	0.50		
Isopropylbenzene	BVB1794-BLK1	ND	ug/L	0.50		
p-Isopropyltoluene	BVB1794-BLK1	ND	ug/L	0.50		
Methylene chloride	BVB1794-BLK1	ND	ug/L	1.0		
Methyl t-butyl ether	BVB1794-BLK1	ND	ug/L	0.50		
Naphthalene	BVB1794-BLK1	ND	ug/L	0.50		
n-Propylbenzene	BVB1794-BLK1	ND	ug/L	0.50		
Styrene	BVB1794-BLK1	ND	ug/L	0.50		
1,1,1,2-Tetrachloroethane	BVB1794-BLK1	ND	ug/L	0.50		
1,1,2,2-Tetrachloroethane	BVB1794-BLK1	ND	ug/L	0.50		
Tetrachloroethene	BVB1794-BLK1	ND	ug/L	0.50		
Toluene	BVB1794-BLK1	ND	ug/L	0.50		
1,2,3-Trichlorobenzene	BVB1794-BLK1	ND	ug/L	0.50		
1,2,4-Trichlorobenzene	BVB1794-BLK1	ND	ug/L	0.50		
1,1,1-Trichloroethane	BVB1794-BLK1	ND	ug/L	0.50		
1,1,2-Trichloroethane	BVB1794-BLK1	ND	ug/L	0.50		
Trichloroethene	BVB1794-BLK1	ND	ug/L	0.50		
Trichlorofluoromethane	BVB1794-BLK1	ND	ug/L	0.50		
1,2,3-Trichloropropane	BVB1794-BLK1	ND	ug/L	1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	BVB1794-BLK1	ND	ug/L	0.50		
1,2,4-Trimethylbenzene	BVB1794-BLK1	ND	ug/L	0.50		
1,3,5-Trimethylbenzene	BVB1794-BLK1	ND	ug/L	0.50		
Vinyl chloride	BVB1794-BLK1	ND	ug/L	0.50		
Total Xylenes	BVB1794-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BVB1794-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BVB1794-BLK1	ND	ug/L	10		
Diisopropyl ether	BVB1794-BLK1	ND	ug/L	0.50		
Ethanol	BVB1794-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BVB1794-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BVB1794-BLK1	ND	ug/L	50		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB1794						
1,2-Dichloroethane-d4 (Surrogate)	BVB1794-BLK1	100	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB1794-BLK1	100	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB1794-BLK1	93.2	%	86 - 115 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVB1794										
Benzene	BVB1794-BS1	LCS	23.810	25.000	ug/L	95.2		70 - 130		
Bromodichloromethane	BVB1794-BS1	LCS	29.020	25.000	ug/L	116		70 - 130		
Chlorobenzene	BVB1794-BS1	LCS	24.480	25.000	ug/L	97.9		70 - 130		
Chloroethane	BVB1794-BS1	LCS	24.980	25.000	ug/L	99.9		70 - 130		
1,4-Dichlorobenzene	BVB1794-BS1	LCS	23.410	25.000	ug/L	93.6		70 - 130		
1,1-Dichloroethane	BVB1794-BS1	LCS	24.870	25.000	ug/L	99.5		70 - 130		
1,1-Dichloroethene	BVB1794-BS1	LCS	26.190	25.000	ug/L	105		70 - 130		
Toluene	BVB1794-BS1	LCS	24.210	25.000	ug/L	96.8		70 - 130		
Trichloroethene	BVB1794-BS1	LCS	25.930	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB1794-BS1	LCS	9.5800	10.000	ug/L	95.8		76 - 114		
Toluene-d8 (Surrogate)	BVB1794-BS1	LCS	10.270	10.000	ug/L	103		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB1794-BS1	LCS	9.9300	10.000	ug/L	99.3		86 - 115		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVB1794	Used client sample: N										
Benzene	MS	1203336-02	ND	24.580	25.000	ug/L		98.3		70 - 130	
	MSD	1203336-02	ND	24.320	25.000	ug/L	1.1	97.3	20	70 - 130	
Bromodichloromethane	MS	1203336-02	ND	27.780	25.000	ug/L		111		70 - 130	
	MSD	1203336-02	ND	29.040	25.000	ug/L	4.4	116	20	70 - 130	
Chlorobenzene	MS	1203336-02	0.13000	24.950	25.000	ug/L		99.3		70 - 130	
	MSD	1203336-02	0.13000	24.990	25.000	ug/L	0.2	99.4	20	70 - 130	
Chloroethane	MS	1203336-02	ND	25.210	25.000	ug/L		101		70 - 130	
	MSD	1203336-02	ND	25.050	25.000	ug/L	0.6	100	20	70 - 130	
1,4-Dichlorobenzene	MS	1203336-02	1.5000	25.570	25.000	ug/L		96.3		70 - 130	
	MSD	1203336-02	1.5000	25.940	25.000	ug/L	1.4	97.8	20	70 - 130	
1,1-Dichloroethane	MS	1203336-02	ND	25.610	25.000	ug/L		102		70 - 130	
	MSD	1203336-02	ND	25.250	25.000	ug/L	1.4	101	20	70 - 130	
1,1-Dichloroethene	MS	1203336-02	ND	27.020	25.000	ug/L		108		70 - 130	
	MSD	1203336-02	ND	26.470	25.000	ug/L	2.1	106	20	70 - 130	
Toluene	MS	1203336-02	ND	24.680	25.000	ug/L		98.7		70 - 130	
	MSD	1203336-02	ND	24.710	25.000	ug/L	0.1	98.8	20	70 - 130	
Trichloroethene	MS	1203336-02	0.12000	26.090	25.000	ug/L		104		70 - 130	
	MSD	1203336-02	0.12000	26.320	25.000	ug/L	0.9	105	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1203336-02	ND	9.7200	10.000	ug/L		97.2		76 - 114	
	MSD	1203336-02	ND	9.6300	10.000	ug/L	0.9	96.3		76 - 114	
Toluene-d8 (Surrogate)	MS	1203336-02	ND	10.130	10.000	ug/L		101		88 - 110	
	MSD	1203336-02	ND	10.140	10.000	ug/L	0.1	101		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1203336-02	ND	10.130	10.000	ug/L		101		86 - 115	
	MSD	1203336-02	ND	10.080	10.000	ug/L	0.5	101		86 - 115	

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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVC0469						
TPH - Diesel (FFP)	BVC0469-BLK1	ND	ug/L	40		
TPH - Motor Oil	BVC0469-BLK1	ND	ug/L	100		
Tetracosane (Surrogate)	BVC0469-BLK1	81.3	%	37 - 134 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVC0469										
TPH - Diesel (FFP)	BVC0469-BS1	LCS	470.79	500.00	ug/L	94.2		52 - 128		
Tetracosane (Surrogate)	BVC0469-BS1	LCS	17.728	20.000	ug/L	88.6		37 - 134		

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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVC0469	Used client sample: N										
TPH - Diesel (FFP)	MS	1201079-90	ND	511.37	500.00	ug/L		102		50 - 127	
	MSD	1201079-90	ND	479.17	500.00	ug/L	6.5	95.8	24	50 - 127	
Tetracosane (Surrogate)	MS	1201079-90	ND	20.039	20.000	ug/L		100		37 - 134	
	MSD	1201079-90	ND	18.296	20.000	ug/L	9.1	91.5		37 - 134	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A52	Chromatogram not typical of diesel.
A55	Chromatogram not typical of crude oil.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 2
Summary of Current Groundwater Analytical Data
Chevron Branded Service Station No. 3737
1400 Powell Street
Emeryville, California

Sample ID	Date	Time	Depth to Water	TOC Elevation	Groundwater Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-MO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	n-Butyl-benzene (µg/L)	sec-Butyl-benzene (µg/L)	Chloroform (µg/L)	Isopropyl-benzene (µg/L)	p-Isopropyl-toluene (µg/L)	Napthalene (µg/L)	n-Propyl-benzene (µg/L)	1,2,4-Trimethyl-benzene (µg/L)	1,3,5 Trimethyl-benzene (µg/L)
MW-1A	1/26/2011	2:20	5.8	18.743	12.94	**960**	**450** A52	<200	**8.4**	<0.50	**1.9**	**1.6**	**50**	**1.4**	**62**	<0.50	<250	<0.50	<0.50	<0.50	**2.2**	**1.2**	<0.50	**4.2**	**1.8**	**1.8**	**7.3**	**1.0**	**1.2**
MW-1B	1/26/2011	1:20	9.46	18.884	9.42	<50	<50	<200	<0.50	<0.50	<0.50	<1.0	**0.66**	<0.50	<10	<0.50	<250	<0.50	<0.50	**24**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2A	1/26/2011	10:33	8.02	18.925	10.91	**2,500**	**1,200**	<1000	**100**	**2.2**	**28**	**9.0**	**140**	<0.50	**1,300**	<0.50	<250	<0.50	<0.50	<0.50	**6.6**	**3.9**	**2.5**	**14**	**7.6**	**17**	**23**	**2.5**	**2.4**
MW-2B	1/26/2011	2:10	5.51	19.099	13.59	<50	<50	<200	**0.55**	<0.50	<0.50	<1.0	**3.4**	<0.50	<10	<0.50	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3A	1/26/2011	2:30	4.75	18.616	13.87	**3,100**	**830**	<200	**160**	<5.0	**96**	<10	<5.0	<5.0	<100	<5.0	<2500	<5.0	<5.0	<5.0	<5.0	**6.2**	<5.0	**40**	**9.2**	<5.0	**54**	<5.0	<5.0
MW-3B	1/26/2011	1:35	7.33	18.571	11.24	<50	**57**	<200	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<10	<0.50	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
COMP	1/26/2011	1:15	NA	NA	NA	**1,200**	**350**	<200	**13**	**0.57**	**5.4**	**1.5**	**6.0**	<0.50	**92**	<0.50	**15,000**	<0.50	<0.50	**3.6**	**5.3**	**2.3**	<0.50	**4.0**	**2.9**	**5.6**	**8.4**	**0.60**	**0.52**
ESL	--	--	--	--	--	100	100	100	1	40	30	20	5	NA	12	NA	NA	NA	0.05	0.5	NA	NA	70	NA	NA	17	NA	NA	NA

Notes:

Depth to water measured in feet below top of casing
Groundwtaer elevation measured in feet above mean sea level
Bold concentrations indicate detection above laboratory reporting limit

(µg/L)	micrograms per liter
TPH-D	Total Petroleum Hydrocarbons as Diesel
TPH-MO	Total Petroleum Hydrocarbons as Motor Oil
TPH-G	Total Petroleum Hydrocarbons as Gasoline
MTBE	methyl tertiary butyl ether
TBA	tertiary buty alcohol
ETBE	ethyl tertiary butyl ether
DIPE	di-isopropyl ether
TAME	tertiary amyl ethyl ether
EDB	ethylene dibromide
1,2-DCA	1,2-dichloroethane
ESL	Regional Water Quality Control Board - San Francisco Region Environmental Screening Level
A52	Data Qualifier: Chromatogram not typical of diesel

ESL based on residential land use, shallow soil, and groundwater as a potential drinking resource.
TPH-D and TPH-MO analysis by Environmental Protection Agency (EPA) Test Method 8015 with Silica Gel Cleanup
All other analyses by EPA Method 8260B.
Samples were analyzed for a full VOC Scan by EPA Method 8260B with oxygenates and lead scavengers. All Oxygenates and lead scavenger data are summarized, only VOCs with detections are presented in table.
Data qualifiers regarding sample dilution, surrogate recovery, or quality control are not presented in table. Please refer to laboratory reports for full explanation of qualifiers.