



January 6, 2014

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By Alameda County Environmental Health at 2:31 pm, Jan 07, 2014

Timothy L. Bishop,
P.G.
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
Suite 5213
San Ramon, CA 94583
Tel (925) 790-6463
TimBishop@chevron.com

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Fourth Quarter 2013 Groundwater Monitoring Report

1629 Webster Street, Alameda, California
Fuel Leak Case No.: RO0000450

Dear Mr. Nowell,

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact me at (925) 790-6463.

Sincerely,

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

Timothy Bishop
Union Oil of California – Project Manager

Attachment
Fourth Quarter 2014 Groundwater Monitoring Report

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject:
Fourth Quarter 2013 Groundwater Monitoring Report

ENVIRONMENT

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company's affiliate, Union Oil Company of California ("Union Oil"), ARCADIS is submitting the enclosed Quarterly Groundwater Monitoring Report for the following facility:

Date:
January 6, 2014

<u>Facility No.</u>	<u>Case No.</u>	<u>Location</u>
0843	RO0000450	1629 Webster Street Alameda, California

Contact:
Katherine Brandt

Phone:
510.596.9675

Email:
Katherine.Brandt@
arcadis-us.com

If you have any questions or comments regarding the contents of this document, please contact Mr. Tim Bishop of Chevron at 925.790.6463 or by e-mail at TimBishop@Chevron.com. Alternatively, you may contact Katherine Brandt of ARCADIS at 510.596.9675 or by e-mail at Katherine.Brandt@arcadis-us.com.

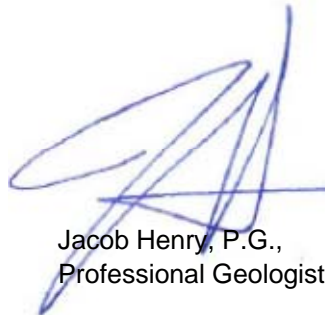
Our ref:
B0047584.2013

Sincerely,

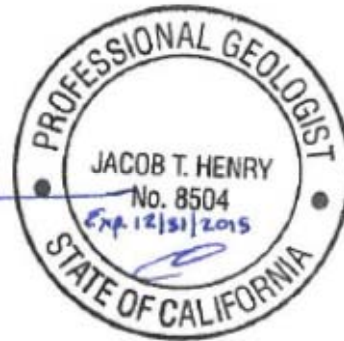
ARCADIS



Katherine Brandt
Certified Project Manager



Jacob Henry, P.G.,
Professional Geologist



Copies:

Mr. Tim Bishop – Chevron (electronic copy only)
Ms. Cherie McCaulou, CRWQCB – San Francisco Bay Region, 1515 Clay Street, Suite
1400, Oakland, California 94612 (Geotracker)
Mr. Sam and Michelle Koka, 802 Pacific Avenue, Alameda, CA 94501

**UNION OIL OF CALIFORNIA
 QUARTERLY MONITORING REPORT
 FOURTH QUARTER 2013
 January 6, 2014**

Facility No.: 0843 Address: 1629 Webster Street, Alameda, California

Consulting Company/Contact Person/Phone No.: ARCADIS / Katherine Brandt / 510.596.9675

Primary Agency/Contact Person/Regulatory ID No.: Alameda County Department of Environmental Health / Mr. Keith Nowell Case No. RO0000450

WORK PERFORMED DURING THIS REPORTING PERIOD (Fourth Quarter – 2013) :

1. Gettler-Ryan Inc., conducted groundwater monitoring and sampling on November 6, 2013. Field data sheets and general procedures are included as **Attachment A**. Twelve (12) groundwater monitoring wells were gauged and sampled during this monitoring event (MW-1, MW-1AR, MW-1BR, and MW-3 through MW-11).

Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by United States Environmental Protection Agency (EPA) Method 8015B; benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), oxygenates (methyl tertiary butyl ether [MTBE], ethyl tertiary butyl ether [ETBE], di-isopropyl ether [DIPE], tertiary amyl methyl ether [TAME], tertiary butyl alcohol [TBA]), 1,2-dibromoethane (EDB), 1,2-dichloroethane (1,2-DCE or EDC), and ethanol by EPA Method 8260B; as well as field parameters electrical conductivity (EC), dissolved oxygen (DO), and oxidation reduction potential (ORP).

Additionally, samples collected from groundwater monitoring wells MW-1, MW-1AR, MW-1BR, and MW-7 through MW-11 were analyzed for nitrate as NO₃, sulfate, ferric iron, non-volatile organic compounds, chromium (hexavalent, dissolved, and total), dissolved manganese, total recoverable manganese, dissolved vanadium, and total recoverable vanadium. Samples collected from wells MW-5 and MW-6 were additionally analyzed for chromium (hexavalent, dissolved, and total).

As discussed in the August 23, 2013 meeting with ACEH, groundwater monitoring wells are separated based on screen interval and zone. The site location map, the site plan, and the groundwater contour maps are presented on **Figures 1** through **4**. Concentration maps for TPH-g, benzene, and MTBE are on **Figures 5** through **8**. Current Groundwater Gauging and Analytical Results are summarized in **Table 1**, Current Additional Groundwater Analytical Results are summarized in **Table 1a**, Historic Groundwater Gauging and Analytical Results are summarized in **Table 2**, Historic Additional Groundwater Analytical Results are summarized in **Table 2a**, and Historical Groundwater Results from TRC are included as **Attachment B**. A copy of the laboratory analytical report and chain-of-custody documentation is included as **Attachment C**.

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (First Quarter – 2014):

1. Perform groundwater monitoring and related reporting during first quarter 2014.

Current Phase of Project:	<u>Groundwater Monitoring</u>
Site Use:	<u>Vacant Lot – Planned Redevelopment</u>
Frequency of Sampling:	<u>Groundwater – Quarterly</u>
Frequency of Monitoring:	<u>Groundwater – Quarterly</u>
Are Separate-Phase Hydrocarbons (SPH) Present On-Site:	<u>No</u>
Cumulative SPH Recovered to Date:	<u>None</u>
SPH Recovered This Quarter:	<u>None</u>
Bulk Soil Removed to Date:	<u>338 tons (June 1998)</u>
Bulk Soil Removed this Quarter:	<u>None</u>
Water Wells or Surface Waters within a 2,000' Radius and Their Respective Directions:	<u>Three irrigation wells located 0.1 mile west, northwest, and southeast of the site</u>

**UNION OIL OF CALIFORNIA
 QUARTERLY MONITORING REPORT
 FOURTH QUARTER 2013
 January 6, 2014**

Facility No.: 0843 Address: 1629 Webster Street, Alameda, California

Groundwater Use Designation:	<u>Irrigation</u>		
Current Remediation Techniques:	<u>None</u>		
Permits for Discharge (No.):	<u>None</u>		
Approximate Depth to Groundwater for Shallow Monitoring Wells:	<u>7.15 (MW-5) – 9.00 (MW-1) feet below top of casing</u>		
	Measured <input checked="" type="checkbox"/>	Estimated	
Approximate Depth to Groundwater for Submerged Monitoring Wells:	<u>7.72 (MW-7) – 9.13 (MW-1AR) feet below top of casing</u>		
	Measured <input checked="" type="checkbox"/>	Estimated	
Approximate Groundwater Elevation for Shallow Monitoring Wells:	<u>9.30 (MW-5) – 10.16 (MW-4) feet relative to mean sea level</u>		
	Measured <input checked="" type="checkbox"/>	Estimated	
Approximate Groundwater Elevation for Submerged Monitoring Wells:	<u>10.00 (MW-8) – 10.16 (MW-1AR) feet relative to mean sea level</u>		
	Measured <input checked="" type="checkbox"/>	Estimated	
Groundwater Gradient for Shallow Monitoring Wells:	<u>0.004 ft/ft</u>	(Magnitude)	<u>Northeast</u> (Direction)
Groundwater Gradient for Submerged Monitoring Wells:	<u>0.003 ft/ft</u>	(Magnitude)	<u>Northeast</u> (Direction)

**UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
FOURTH QUARTER 2013
January 6, 2014**

Facility No.: 0843 Address: 1629 Webster Street, Alameda, California

DISCUSSION:

Groundwater conditions during the fourth quarter 2013 remained consistent with previous quarters.

Shallow interval: The maximum dissolved concentration of MTBE (590 micrograms per liter [$\mu\text{g/L}$]) was detected in the samples collected from MW-5. However, as this is the first occurrence of any analyte in MW-5, ARCADIS' interpretation is the MTBE result is erroneous as no previous detection has occurred in the 55 groundwater monitoring events starting in 1999. Therefore, Figure 7 depicting the isoconcentrations for MTBE will not represent the one time result detected on November 6, 2013. TPH-g, benzene, toluene, ethylbenzene, total xylenes, TAME, ETBE, DIPE, EDB, EDC, and ethanol were not detected above the laboratory reporting limits for wells sampled.

Additionally, the maximum concentrations of nitrate as NO_3 (15 milligrams per liter [mg/L]) was detected in MW-1. The maximum concentration of sulfate (37 mg/L) was detected in well MW-9. The maximum concentrations of non-volatile organic compounds (2.1 mg/L) and dissolved manganese (170 $\mu\text{g/L}$) were detected in well MW-9. The maximum concentration of total chromium (65 $\mu\text{g/L}$) was detected in MW-5. The maximum concentrations of total recoverable manganese (190 $\mu\text{g/L}$), and total recoverable vanadium (16 $\mu\text{g/L}$) were detected in well MW-1. Hexavalent chromium, dissolved vanadium, ferrous iron, and dissolved chromium were not detected above the laboratory reporting limits for all shallow wells sampled.

Submerged interval: The maximum dissolved concentrations of MTBE (1,400 $\mu\text{g/L}$), TBA (210 $\mu\text{g/L}$), and TAME (1.5 $\mu\text{g/L}$) were detected in the samples collected from MW-7. TPH-g, benzene, toluene, ethylbenzene, total xylenes, ETBE, DIPE, EDB, EDC, and ethanol were not detected above the laboratory reporting limits for wells sampled.

Additionally, the maximum concentration of nitrate as NO_3 (26 mg/L) was detected in well MW-1BR. The maximum concentration of sulfate (39 mg/L) was detected in well MW-8. The maximum concentration of non-volatile organic compounds (5.8 mg/L) was detected in well MW-8. The maximum concentration of hexavalent chromium (4.7 $\mu\text{g/L}$) was detected in well MW-10. The maximum concentration of dissolved manganese (320 $\mu\text{g/L}$) was detected in MW-7. The maximum concentrations of total recoverable manganese (530 $\mu\text{g/L}$) and total recoverable vanadium (6 $\mu\text{g/L}$) were detected in well MW-8. Total chromium, dissolved chromium and dissolved vanadium were not detected above the laboratory reporting limits for all submerged wells sampled.

Groundwater elevations at the service station vary by approximately one-and-a-third feet, creating a relatively gentle hydraulic gradient of 0.004 foot per foot for the shallow interval and 0.003 foot per foot for the submerged interval both intervals were in the northeast direction.

**UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
FOURTH QUARTER 2013
January 6, 2014**

Facility No.: 0843 Address: 1629 Webster Street, Alameda, California

CONCLUSIONS AND RECOMMENDATIONS:

Dissolved hydrocarbon constituent concentrations have remained consistent with previous quarters with the exception of the MTBE concentration observed in MW-5. Review of historical groundwater quality data suggests this is an anomaly and may be in erroneous.

On December 29, 2013, ARCADIS recommended making the following modifications to the current sampling and analysis program:

- Analysis of BTEX and TPH-g, and fuel oxygenates will be limited to deep zone groundwater wells (20 - 40 feet bgs), where the Laboratory Reporting Limit (LRL) has been exceeded during one or more of the last four consecutive sampling events. Groundwater samples will be analyzed for BTEX, TPH-g, and fuel oxygenates semi-annually at the following wells: MW-1AR, MW-1BR, and MW-7, MW-8, MW-9, MW-10, and MW-11.
- Shallow zone groundwater (0 to 20 feet bgs) monitoring wells MW-5 and MW-6 will be sampled semi-annually for BTEX, TPH-g, and fuel oxygenates to maintain downgradient delineation of the MTBE groundwater plume extending off site.
- Remaining shallow zone groundwater monitoring wells (MW-1, MW-3, and MW-4) will be removed from the sampling and analysis program. Concentrations of BTEX, TPH-g, and fuel oxygenates at monitoring wells MW-3 and MW-4 have remained below LRLs since September 2003. Concentrations at monitoring well MW-1 have remained below the LRL for a minimum of four consecutive groundwater monitoring events, with the exception of MTBE. However, MTBE concentrations at MW-1 have exhibited declining concentration trends since May 2012. Additionally, deep zone groundwater monitoring wells MW-1AR and MW-1B are located in the immediate vicinity MW-1; these two wells will continue to be sampled semi-annually and will serve to delineate the upgradient MTBE plume boundary on site.
- Samples will no longer be analyzed for Monitored Natural Attenuation (MNA) parameters, including nitrate, sulfate, and ferrous iron. Current and historic MNA data for this site are sufficient to determine that natural attenuation processes in groundwater are ongoing. Additionally, ARCADIS does not anticipate that the groundwater geochemistry will change unless site conditions are varied, as would be the case with implementation of an active remediation system or in the event of a subsequent release.

ARCADIS will perform the first 2014 semi-annual sampling event in the first quarter to confirm the MTBE detection in MW-5.

ATTACHMENTS:

- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3: Shallow Zone Groundwater Contour Map
- Figure 4: Submerged Zone Groundwater Contour Map
- Figure 5: TPH-g Concentration Map
- Figure 6: Benzene Concentration Map
- Figure 7: Shallow Zone MTBE Concentration Map
- Figure 8: Submerged Zone MTBE Concentration Map

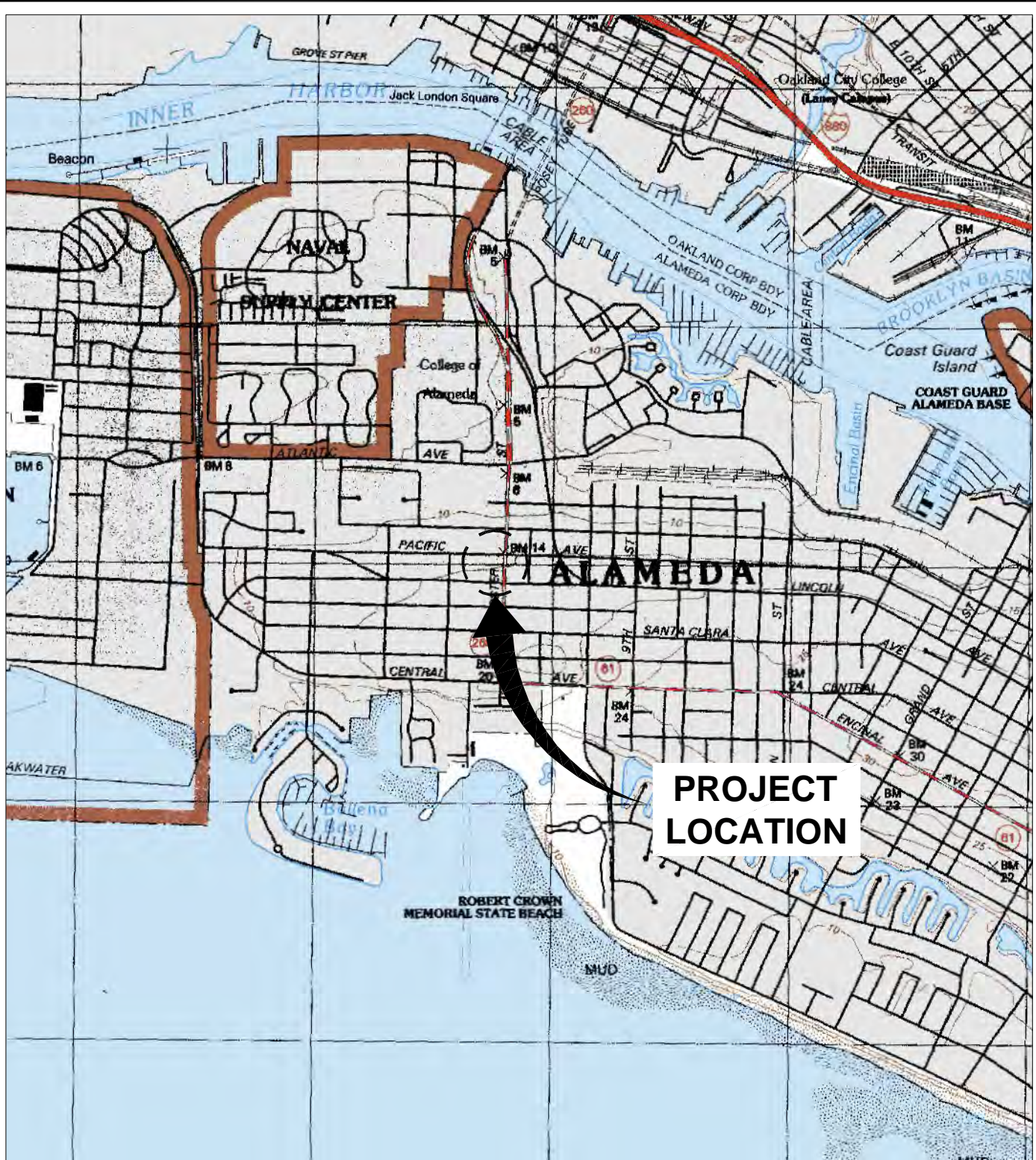
- Table 1: Current Groundwater Gauging and Analytical Results
- Table 1a: Current Additional Groundwater Analytical Results
- Table 2: Historic Groundwater Gauging and Analytical Results
- Table 2a: Historic Additional Groundwater Analytical Results

- Attachment A: Field Data Sheets and General Procedures
- Attachment B: Historical Groundwater Results from TRC
- Attachment C: Laboratory Report and Chain-of-Custody Documentation

ARCADIS

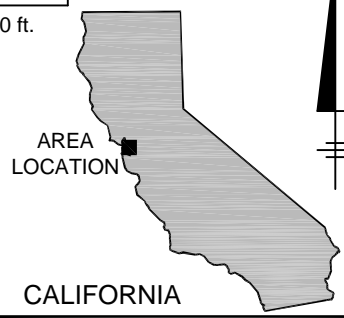
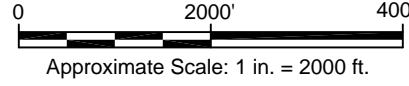
Figures

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS ID: J. HARRIS -PIC: J. VOGUELEY PM: K. ABBOTT TM: K. ABBOTT LVR(OPTION)=-OFF=-REF
 G:\ENV\CAD\Peralum\ACT1800\47584\0000\1\DWG\47584\01.dwg LAYOUT: 18.0S (LMS TECH) PAGESETUP: 4/19/2011 11:40 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: 4/19/2011 11:057 AM BY: HARRIS, JESSICA
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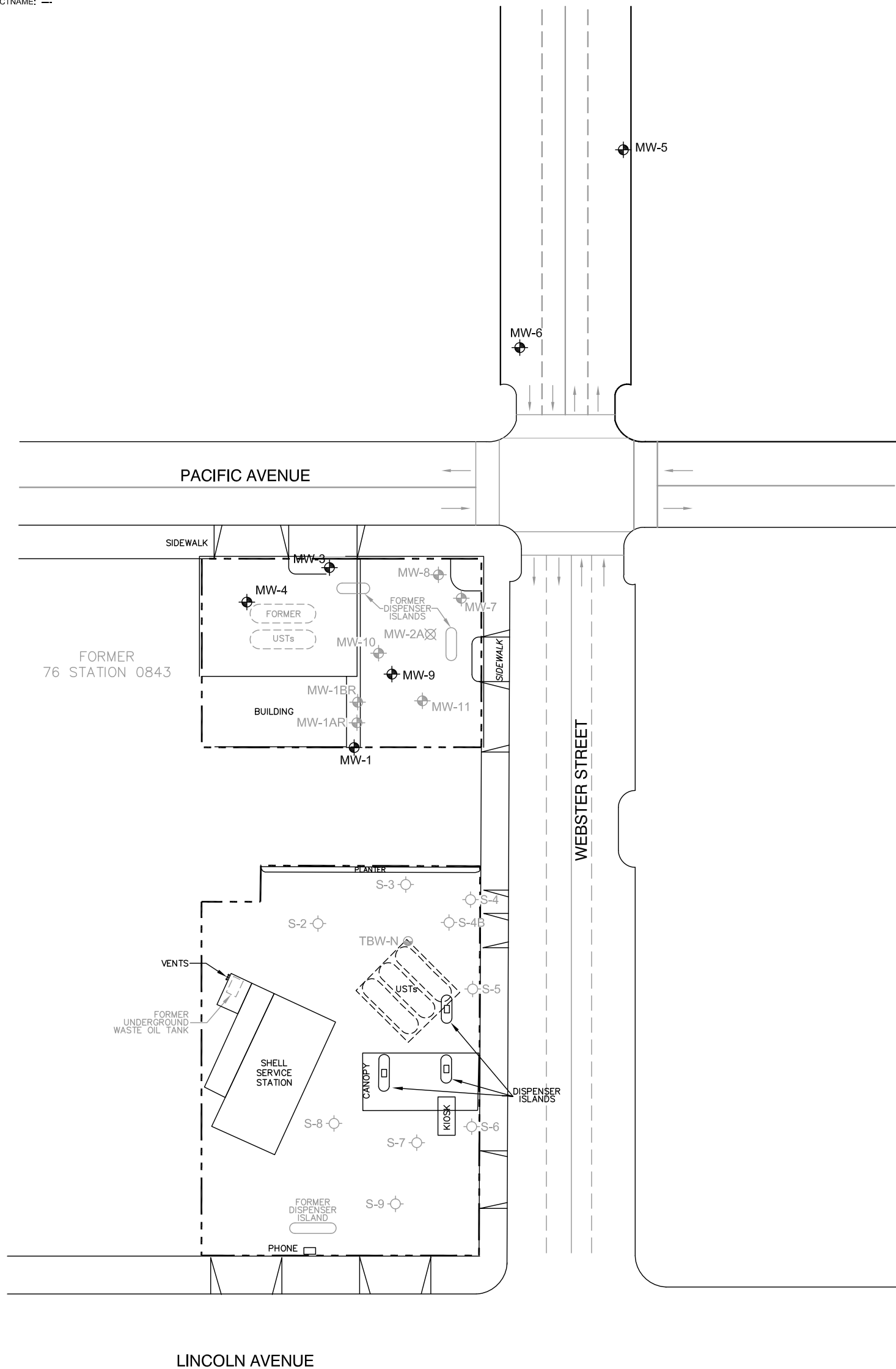
**PROJECT
LOCATION**

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 1993.



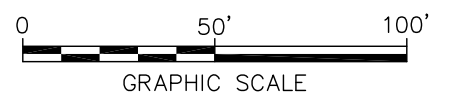
UNION OIL FORMER FACILITY NO. 0843 1629 WEBSTER STREET ALAMEDA, CALIFORNIA	
SITE LOCATION MAP	
	FIGURE 1

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 47584X01 DRAFT Figure 4.jpg



LEGEND

- PROPERTY BOUNDARY
- MW-1 ● FORMER 76 STATION SHALLOW ZONE MONITORING WELL
- MW-1AR ● FORMER 76 STATION SUBMERGED ZONE MONITORING WELL
- S-9 ○ SHELL SERVICE STATION MONITORING WELL
- TBW-N ● SHELL TANK BACKFILL MONITORING WELL
- MW-2A ⊗ ABANDONED WELL



NOTES:

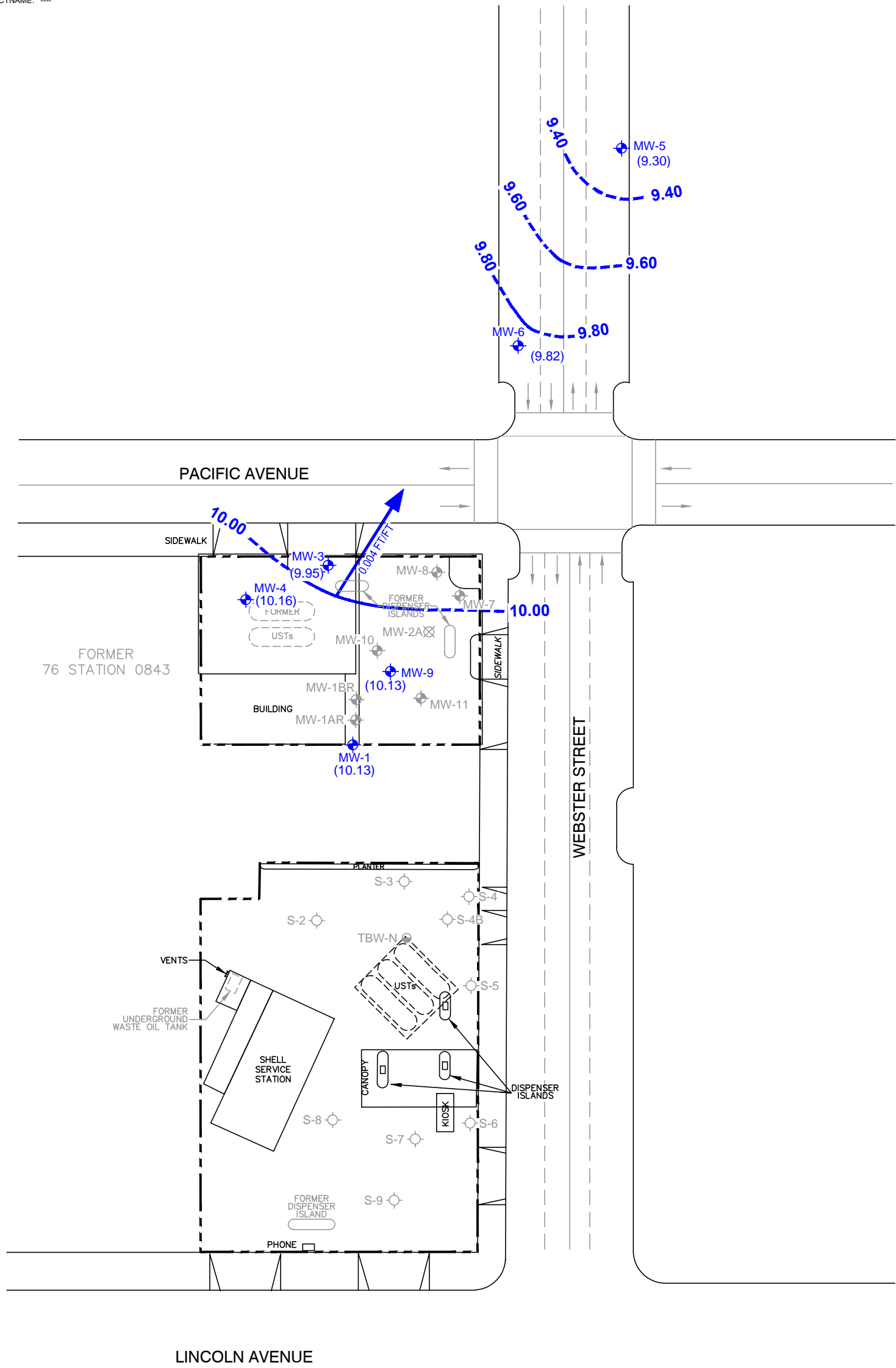
1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. LL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. THE ADJACENT SHELL SITE HAS RECEIVED CLOSURE AND WILL NO LONGER BE SAMPLED.

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 FORMER FACILITY NO. 0843
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 ALAMEDA, CALIFORNIA

SITE PLAN

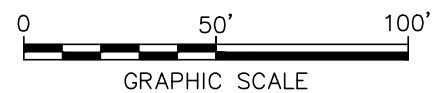


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LEGEND

- PROPERTY BOUNDARY
- FORMER 76 STATION SHALLOW ZONE MONITORING WELL
- FORMER 76 STATION SUBMERGED ZONE MONITORING WELL
- SHELL SERVICE STATION MONITORING WELL
- SHELL TANK BACKFILL MONITORING WELL
- ABANDONED WELL
- GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)



NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
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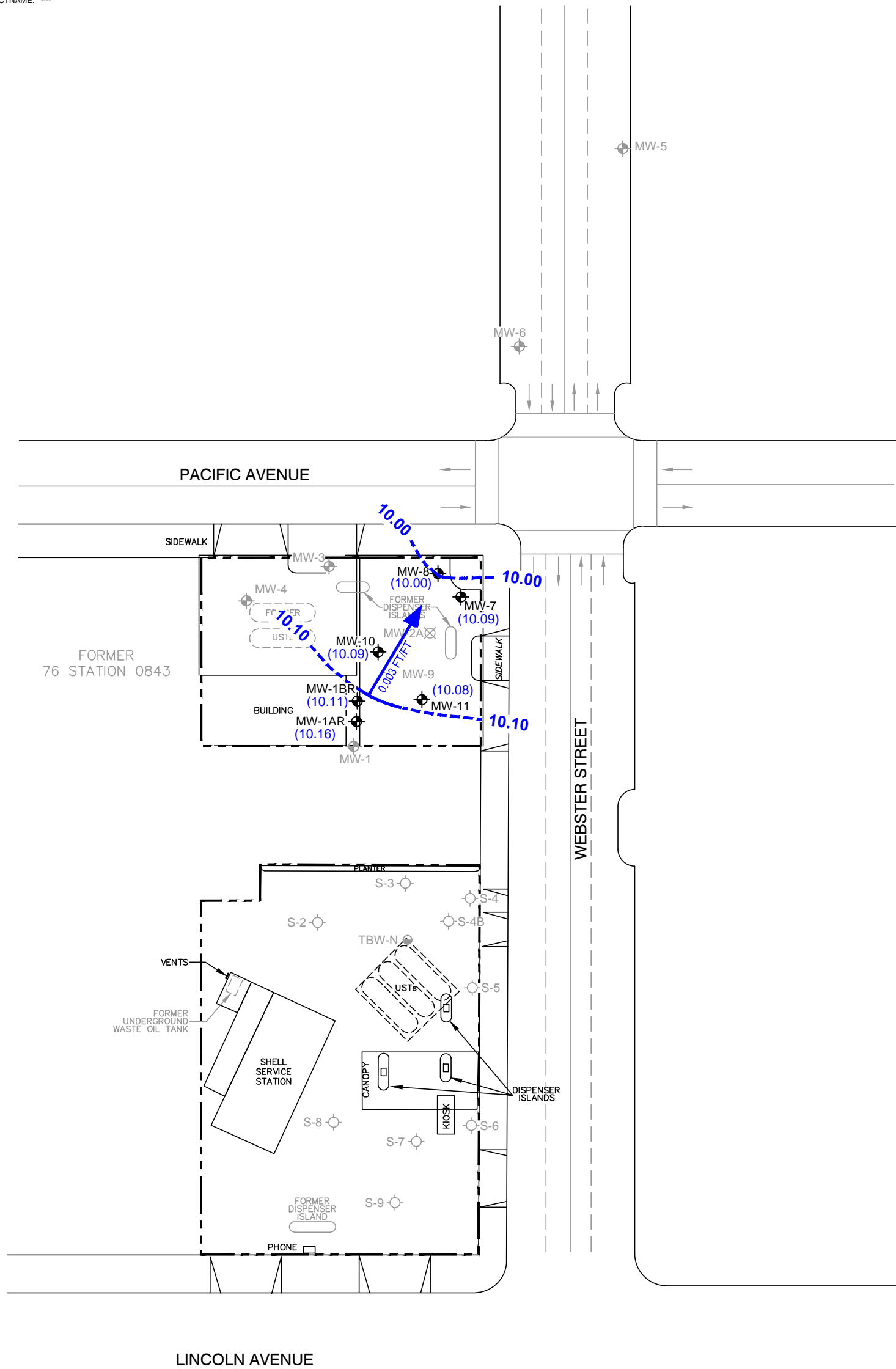
**SHALLOW ZONE GROUNDWATER
 ELEVATION CONTOUR MAP
 NOVEMBER 6, 2013**



FIGURE

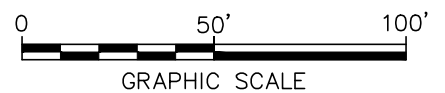
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 47584X01 REV Figure 4.jpg



LEGEND

- PROPERTY BOUNDARY
- MW-1 ◉ FORMER 76 STATION SHALLOW ZONE MONITORING WELL
- MW-1AR ◉ FORMER 76 STATION SUBMERGED ZONE MONITORING WELL
- S-9 ◉ SHELL SERVICE STATION MONITORING WELL
- TBW-N ◉ SHELL TANK BACKFILL MONITORING WELL
- MW-2A ◉ ABANDONED WELL
- (10.08) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 10.00 - - - GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- 0.003 FT/FT → APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)



NOTES:

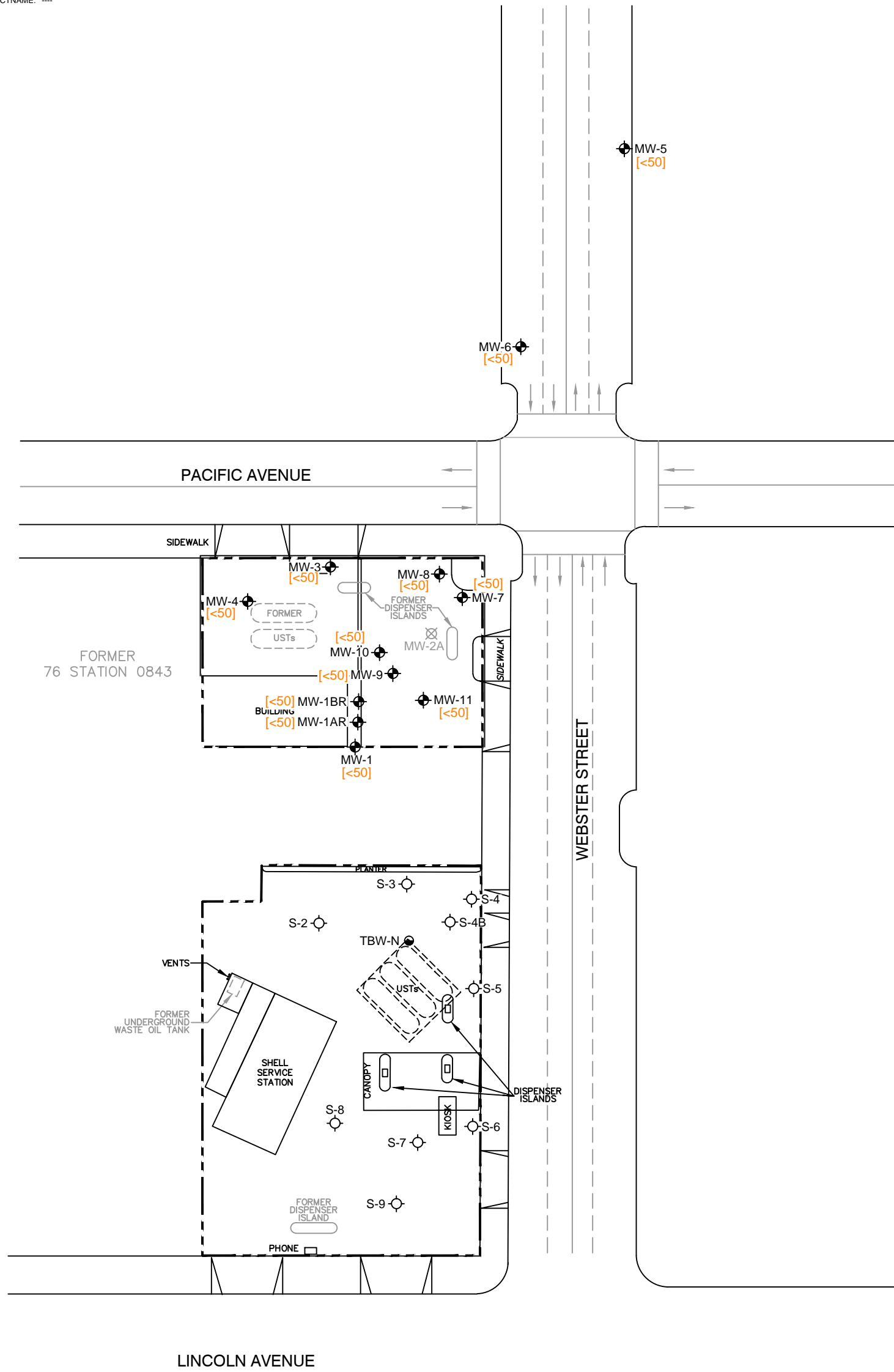
1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
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 1629 WEBSTER STREET
 ALAMEDA, CALIFORNIA

**SUBMERGED ZONE GROUNDWATER
 ELEVATION CONTOUR MAP
 NOVEMBER 6, 2013**

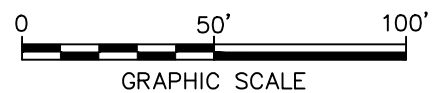


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LEGEND

- PROPERTY BOUNDARY
- MW-1 ◉ FORMER 76 STATION MONITORING WELL
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- TBW-N ● SHELL TANK BACKFILL MONITORING WELL
- MW-2A ☒ ABANDONED WELL
- [TPH-g] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (C4-C12) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT



NOTES:

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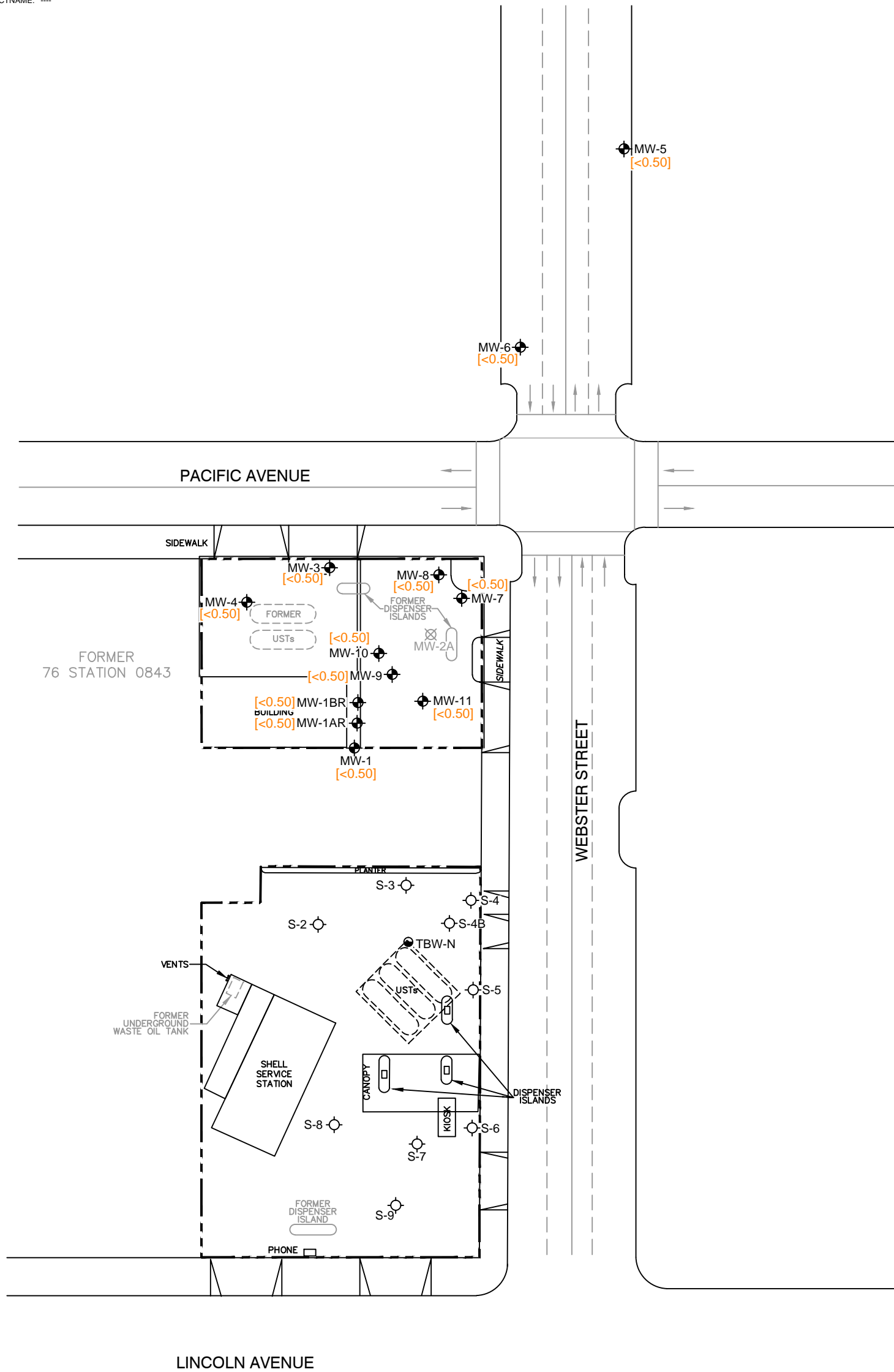
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 ALAMEDA, CALIFORNIA

**TPH-g CONCENTRATION MAP
 NOVEMBER 6, 2013**



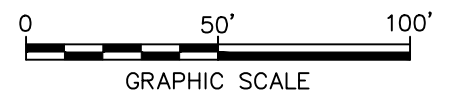
FIGURE
5

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LEGEND

- PROPERTY BOUNDARY
- MW-1 ◉ FORMER 76 STATION MONITORING WELL
- S-9 ◉ SHELL SERVICE STATION MONITORING WELL
- TBW-N ● SHELL TANK BACKFILL MONITORING WELL
- MW-2A ⊠ ABANDONED WELL
- [BENZ] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT



NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
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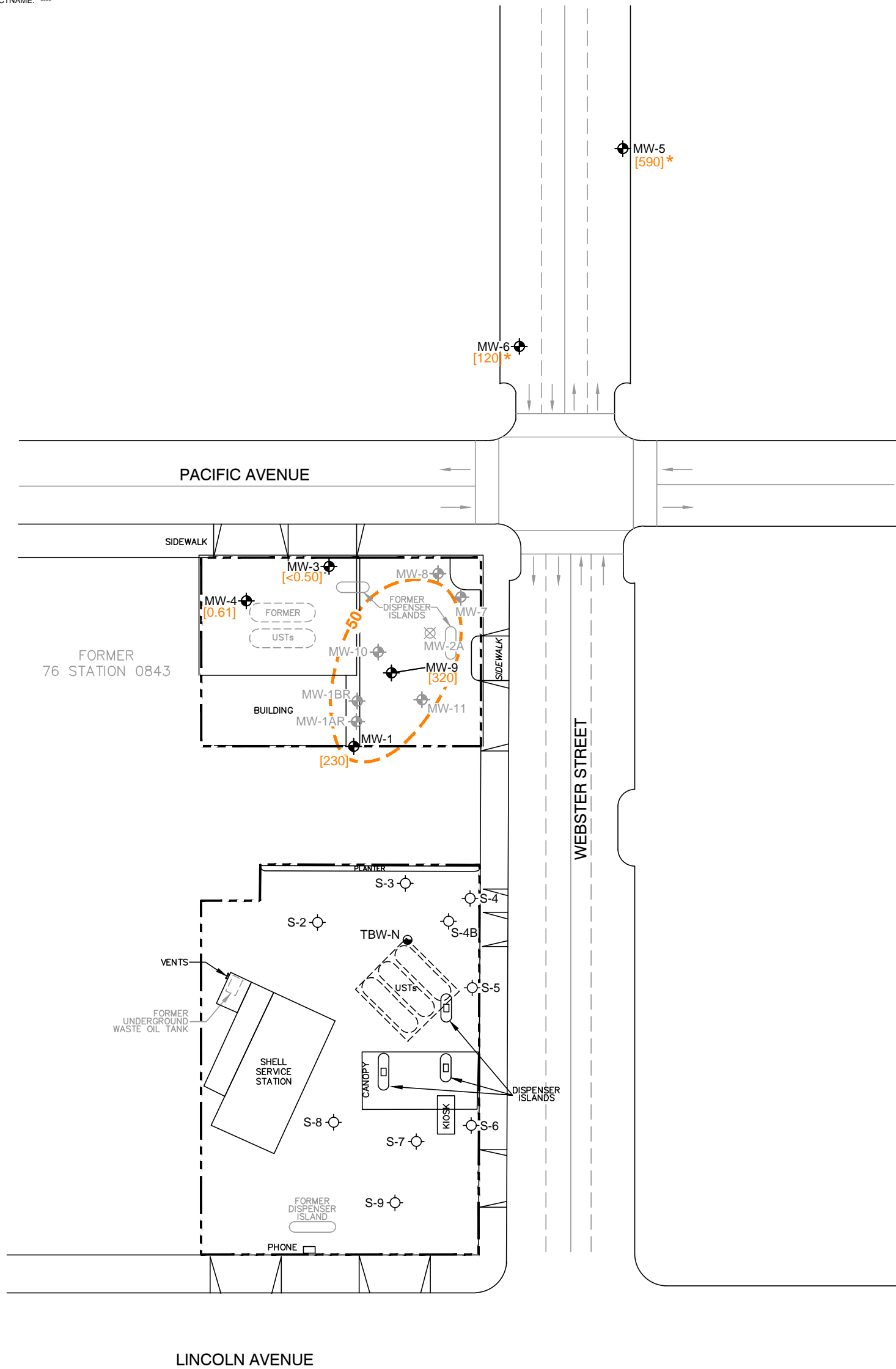
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 ALAMEDA, CALIFORNIA

**BENZENE CONCENTRATION MAP
 NOVEMBER 6, 2013**



FIGURE
6

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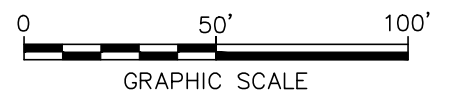


LEGEND

- PROPERTY BOUNDARY
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- TBW-N ◉ SHELL TANK BACKFILL MONITORING WELL
- MW-2A ◉ ABANDONED WELL
- [MTBE] METHYL TERTIARY BUTYL ETHER CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 50 - - - MTBE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT
- * NOT USED IN CONTOURING; REASON EXPLAINED IN REPORT

NOTES:

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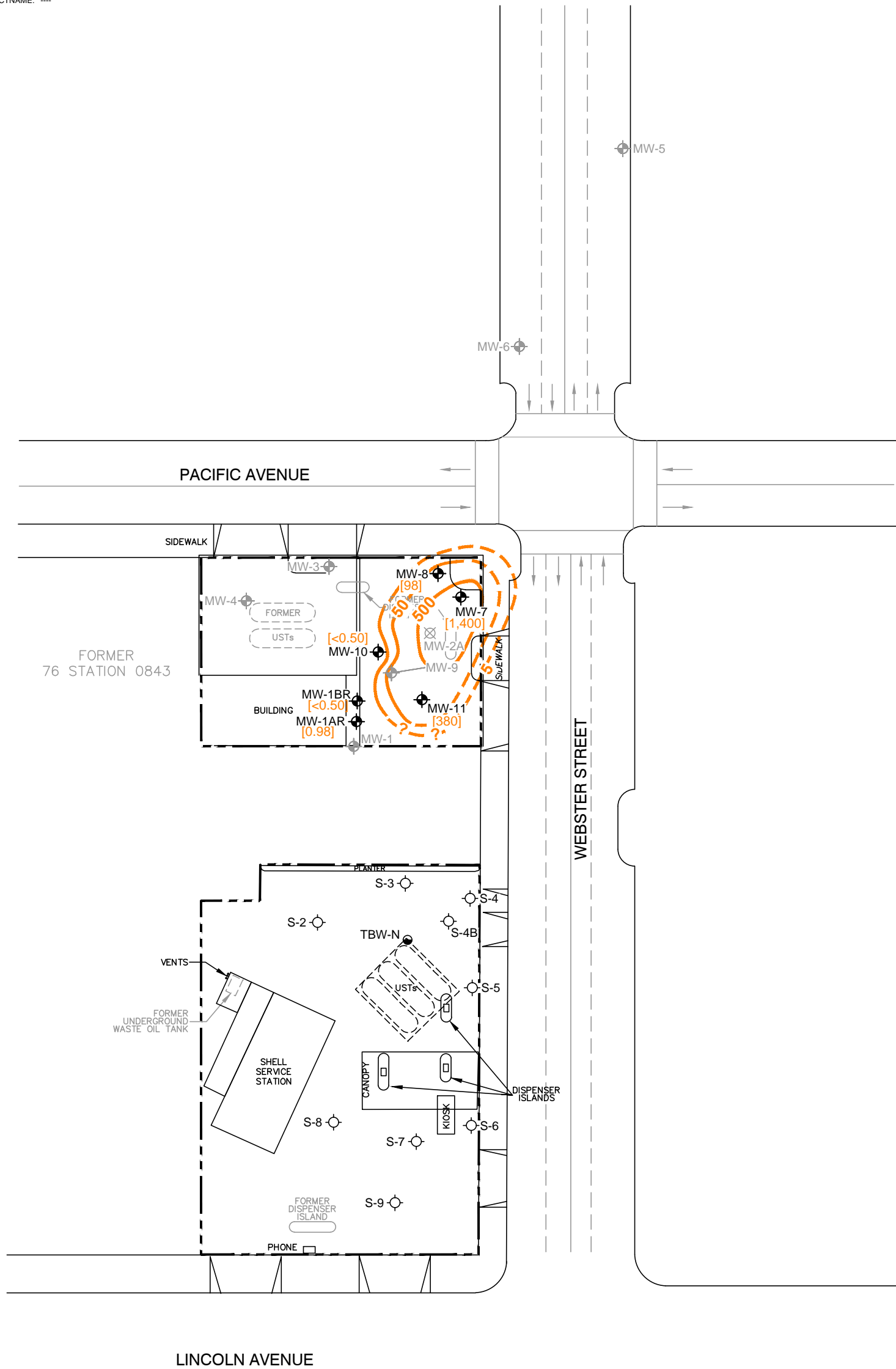
**MTBE SHALLOW ZONE WELL
 CONCENTRATION MAP
 NOVEMBER 6, 2013**



FIGURE

7

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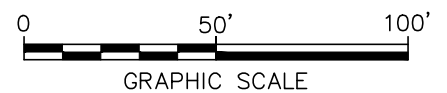


LEGEND

- PROPERTY BOUNDARY
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3. THE ADJACENT SHELL SITE HAS RECEIVED CLOSURE AND WILL NO LONGER BE SAMPLED.



UNION OIL
 FORMER FACILITY NO. 0843
 1629 WEBSTER STREET
 ALAMEDA, CALIFORNIA

**MTBE SUBMERGED ZONE WELL
 CONCENTRATION MAP
 NOVEMBER 6, 2013**



FIGURE

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Tables

Table 1
Current Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC Elevation (feet MSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	TPH-G 8015B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
MW-1	11/6/2013	19.13	9.00	0.00	10.13	<50	<0.50	<0.50	<0.50	<1.0	230	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1AR	11/6/2013	19.29	9.13	0.00	10.16	<50	<0.50	<0.50	<0.50	<1.0	0.98	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	11/6/2013	19.13	9.02	0.00	10.11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	11/6/2013	18.05	8.10	0.00	9.95	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	11/6/2013	18.14	7.98	0.00	10.16	<50	<0.50	<0.50	<0.50	<1.0	0.61	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	11/6/2013	16.45	7.15	0.00	9.30	<50	<0.50	<0.50	<0.50	<1.0	590	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-6	11/6/2013	16.97	7.15	0.00	9.82	<50	<0.50	<0.50	<0.50	<1.0	120	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	11/6/2013	17.81	7.72	0.00	10.09	<50	<0.50	<0.50	<0.50	<1.0	1,400	210	1.5	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	11/6/2013	18.13	8.13	0.00	10.00	<50	<0.50	<0.50	<0.50	<1.0	98	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-9	11/6/2013	18.75	8.62	0.00	10.13	<50	<0.50	<0.50	<0.50	<1.0	320	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-10	11/6/2013	18.84	8.75	0.00	10.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-11	11/6/2013	18.72	8.64	0.00	10.08	<50	<0.50	<0.50	<0.50	<1.0	380	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01

Note

Analytical results given in micrograms per liter (µg/l) unless otherwise noted

Standard Abbreviations

- < not detected at or above laboratory detection limit
- µg/l micrograms per liter (approx. equivalent to parts per billion, ppb)
- TOC top of casing (surveyed reference elevation)
- MSL relative to mean sea level
- DTW depth to water
- bTOC below top of casing
- LPH liquid-phase hydrocarbons
- GW groundwater
- TPH-G total petroleum hydrocarbons as gasoline
- MTBE methyl tertiary butyl ether
- TBA tertiary butyl alcohol
- TAME tertiary amyl methyl ether
- ETBE ethyl tertiary butyl ether
- DIPE di-isopropyl ether
- EDB 1,2-dibromoethane
- EDC 1,2-dichloroethane (same as ethylene dichloride)
- 8015B EPA Method 8015B for TPH-G
- 8260B EPA Method 8260B for BTEX/MTBE/Oxygenates
- A01 PQL's and MDL's are raised due to sample dilution.
- PQL practical quantitation limit
- MDL method detection limit

Table 1a
Current Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Nitrate as NO3 (mg/l)	Sulfate (mg/l)	Ferric Iron	Non-Volatile Organic Compounds					Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
								Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium					
MW-1	11/6/2013	341	5.6	167.7	15	22	<100	1.2	<2.0	<10	7.3	<3.0	26	190	16	S05
MW-1AR	11/6/2013	343	6.4	70.0	14	25	<100	1.2	<2.0	<10	5.2	<3.0	<10	39	<3.0	S05
MW-1BR	11/6/2013	365	6.1	94.9	26	26	<100	1.1	<2.0	<10	1.7	<3.0	<10	16	<3.0	S05
MW-3	11/6/2013	752	6.2	111.5	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	11/6/2013	910	4.2	112.3	--	--	--	--	--	--	--	--	--	--	--	S05
MW-5	11/6/2013	558	5.2	120.4	--	--	--	--	<2.0	<10	--	--	39	--	--	S05
MW-6	11/6/2013	501	5.5	125.8	--	--	--	--	<2.0	<10	--	--	<10	--	--	S05
MW-7	11/6/2013	640	4.8	69.7	3.1	36	<100	5.6	<2.0	<10	320	<3.0	<10	330	3.1	S05
MW-8	11/6/2013	536	6.4	128.2	5.8	39	<100	5.8	<2.0	<10	170	<3.0	<10	530	6	S05
MW-9	11/6/2013	554	6.6	130.3	12	37	<100	2.1	<2.0	<10	170	<3.0	<10	100	<3.0	S05
MW-10	11/6/2013	342	4.7	137.2	14	23	<100	1.3	4.7	<10	3	<3.0	<10	12	<3.0	S05
MW-11	11/6/2013	670	4.4	145.0	6	28	<100	2.4	<2.0	<10	120	<3.0	<10	100	<3.0	S05

Note

Analytical results given in micrograms per liter (µg/l) unless otherwise noted

Standard Abbreviations

- not analyzed, measured, or collected
- < not detected at or above laboratory detection limit
- umhos/cm micromhos per centimeter
- mg/l milligrams per liter (approx. equivalent to parts per million, ppm)
- µg/l micrograms per liter (approx. equivalent to parts per billion, ppb)
- mV millivolts
- EC electrical conductivity
- DO dissolved oxygen
- ORP oxidation reduction potential
- 120.1 EPA Method 120.1 for EC
- SM-4500OG SM-4500OG for DO
- ASTM-D1498 ASTM-D1498 for ORP
- 300.0 EPA Method 300.0 for sulfate and nitrate as NO3
- SM-3500-FeD SM-3500-FeD for ferric iron
- 415.1 EPA Method 415.1 for non-volatile organic compounds
- 7196 EPA Method 7196 for hexavalent chromium
- 6010B EPA Method 6010B for dissolved and total chromium
- 200.8 EPA Method 200.8 for dissolved and total recoverable manganese and vanadium
- A01 PQL's and MDL's are raised due to sample dilution.
- A10 PQL's and MDL's were raised due to matrix interference.
- S05 The sample holding time was exceeded.
- PQL practical quantitation limit
- MDL method detection limit

Table 2
Historic Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC Elevation (feet MSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	TPH-G 8015B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
MW-1	8/4/2011	19.13	6.78	0.00	12.35	310	<0.50	<0.50	<0.50	<1.0	420	13	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-1	11/21/2011	19.13	7.58	0.00	11.55	85*	<0.50	<0.50	<0.50	<1.0	130	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-1	2/2/2012	19.13	7.60	0.00	11.53	<50	<0.50	<0.50	<0.50	1.0	380	94	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	5/14/2012	19.13	6.45	0.00	12.68	<50	<0.50	<0.50	<0.50	<1.0	800	220	0.75	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	8/13/2012	19.13	7.33	0.00	11.80	<50	<0.50	<0.50	<0.50	<1.0	610	120	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	10/25/2012	19.13	8.10	0.00	11.03	<50	<0.50	<0.50	<0.50	<1.0	250	60	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	3/5/2013	19.13	6.70	0.00	12.43	<50	<0.50	<0.50	<0.50	<1.0	320	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	5/7/2013	19.13	7.00	0.00	12.13	<50	<0.50	<0.50	<0.50	<1.0	230	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1	8/8/2013	19.13	8.05	0.00	11.08	<50	<0.50	<0.50	<0.50	<1.0	25	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1	11/6/2013	19.13	9.00	0.00	10.13	<50	<0.50	<0.50	<0.50	<1.0	230	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1AR	8/4/2011	19.29	6.95	0.00	12.34	<50	<0.50	<0.50	<0.50	<1.0	16	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	11/21/2011	19.29	7.82	0.00	11.47	21* J	<0.50	<0.50	<0.50	<1.0	22	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	2/2/2012	19.29	8.08	0.00	11.21	<50	<0.50	<0.50	<0.50	1.4	23	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	5/14/2012	19.29	6.72	0.00	12.57	<50	<0.50	<0.50	<0.50	<1.0	13	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	8/13/2012	19.29	7.62	0.00	11.67	<50	<0.50	<0.50	<0.50	<1.0	18	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	10/25/2012	19.29	8.27	0.00	11.02	<50	<0.50	<0.50	<0.50	<1.0	19	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	3/5/2013	19.29	6.92	0.00	12.37	<50	<0.50	<0.50	<0.50	<1.0	4.9	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	5/7/2013	19.29	7.23	0.00	12.06	<50	<0.50	<0.50	<0.50	<1.0	3.6	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	8/8/2013	19.29	8.25	0.00	11.04	<50	<0.50	<0.50	<0.50	<1.0	2.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1AR	11/6/2013	19.29	9.13	0.00	10.16	<50	<0.50	<0.50	<0.50	<1.0	0.98	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	8/4/2011	19.13	6.92	0.00	12.21	59	<0.50	<0.50	<0.50	<1.0	60	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A90
MW-1BR	11/21/2011	19.13	7.78	0.00	11.35	29* J	<0.50	<0.50	<0.50	<1.0	34	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	2/2/2012	19.13	8.07	0.00	11.06	<50	<0.50	<0.50	<0.50	1.7	15	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	5/14/2012	19.13	6.67	0.00	12.46	<50	<0.50	<0.50	<0.50	<1.0	23	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	8/13/2012	19.13	7.50	0.00	11.63	<50	<0.50	<0.50	<0.50	<1.0	15	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	10/25/2012	19.13	8.23	0.00	10.90	<50	<0.50	<0.50	<0.50	<1.0	12	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	3/5/2013	19.13	6.89	0.00	12.24	<50	<0.50	<0.50	<0.50	<1.0	2.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	5/7/2013	19.13	7.20	0.00	11.93	<50	<0.50	<0.50	<0.50	<1.0	3.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	8/8/2013	19.13	8.21	0.00	10.92	<50	<0.50	<0.50	<0.50	<1.0	3.6	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	11/6/2013	19.13	9.02	0.00	10.11	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	8/4/2011	18.05	6.10	0.00	11.95	<50	<0.50	<0.50	<0.50	<1.0	0.55	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	11/21/2011	18.05	6.90	0.00	11.15	<50*	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	2/2/2012	18.05	6.90	0.00	11.15	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	5/14/2012	18.05	5.78	0.00	12.27	<50	<0.50	<0.50	<0.50	<1.0	1.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	8/13/2012	18.05	6.60	0.00	11.45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	10/25/2012	18.05	7.30	0.00	10.75	<50	<0.50	<0.50	<0.50	<1.0	1.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	3/5/2013	18.05	5.98	0.00	12.07	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	5/7/2013	18.05	6.29	0.00	11.76	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	8/8/2013	18.05	7.30	0.00	10.75	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-3	11/6/2013	18.05	8.10	0.00	9.95	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	

Table 2
Historic Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC	DTW	LPH	GW	TPH-G 8015B	Ethyl-			Total	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
		Elevation (feet MSL)	(feet bTOC)	Thickness (feet)	Elevation (feet MSL)		benzene	Toluene	benzene	Xylenes									
MW-4	8/4/2011	18.14	6.00	0.00	12.14	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	11/21/2011	18.14	6.80	0.00	11.34	<50*	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	2/2/2012	18.14	6.83	0.00	11.31	<50	<0.50	<0.50	<0.50	<1.0	10	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	5/14/2012	18.14	5.66	0.00	12.48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	8/13/2012	18.14	6.55	0.00	11.59	<50	<0.50	<0.50	<0.50	<1.0	5.0	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	10/25/2012	18.14	7.23	0.00	10.91	<50	<0.50	<0.50	<0.50	<1.0	11	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	3/5/2013	18.14	5.88	0.00	12.26	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	5/7/2013	18.14	6.21	0.00	11.93	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	8/8/2013	18.14	7.22	0.00	10.92	<50	<0.50	<0.50	<0.50	<1.0	0.72	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-4	11/6/2013	18.14	7.98	0.00	10.16	<50	<0.50	<0.50	<0.50	<1.0	0.61	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	8/4/2011	16.45	5.63	0.00	10.82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	11/21/2011	16.45	6.28	0.00	10.17	12* J	<0.50	<0.50	<0.50	<1.0	1.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	2/2/2012	16.45	6.22	0.00	10.23	<50	<0.50	<0.50	<0.50	<1.0	2.1	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	5/14/2012	16.45	5.25	0.00	11.20	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	8/13/2012	16.45	6.06	0.00	10.39	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	10/25/2012	16.45	6.62	0.00	9.83	<50	<0.50	<0.50	<0.50	<1.0	2.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	3/5/2013	16.45	5.50	0.00	10.95	<50	<0.50	<0.50	<0.50	<1.0	2.6	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	5/7/2013	16.45	5.78	0.00	10.67	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	8/8/2013	16.45	6.70	0.00	9.75	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-5	11/6/2013	16.45	7.15	0.00	9.30	<50	<0.50	<0.50	<0.50	<1.0	590	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-6	8/4/2011	16.97	5.69	0.00	11.28	75	<0.50	<0.50	<0.50	<1.0	80	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A90
MW-6	11/21/2011	16.97	6.36	0.00	10.61	55*	<0.50	<0.50	<0.50	<1.0	86	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	2/2/2012	16.97	6.31	0.00	10.66	<50	<0.50	<0.50	<0.50	<1.0	94	21	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	5/14/2012	16.97	5.38	0.00	11.59	<50	<0.50	<0.50	<0.50	<1.0	89	33	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	8/13/2012	16.97	6.08	0.00	10.89	<50	<0.50	<0.50	<0.50	<1.0	89	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	10/25/2012	16.97	6.69	0.00	10.28	<50	<0.50	<0.50	<0.50	<1.0	57	11	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	3/5/2013	16.97	5.57	0.00	11.40	<50	<0.50	<0.50	<0.50	<1.0	29	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	5/7/2013	16.97	5.85	0.00	11.12	<50	<0.50	<0.50	<0.50	<1.0	22	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	8/8/2013	16.97	6.77	0.00	10.20	<50	<0.50	<0.50	<0.50	<1.0	6.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-6	11/6/2013	16.97	7.15	0.00	9.82	<50	<0.50	<0.50	<0.50	<1.0	120	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	8/4/2011	17.81	5.85	0.00	11.96	2,300	<0.50	<0.50	<0.50	<1.0	6,300	2,200	6.7	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-7	11/21/2011	17.81	6.67	0.00	11.14	1,400*	<0.50	<0.50	<0.50	<1.0	5,900	2,200	6.4	<0.50	<0.50	<0.50	<0.50	<250	A90
MW-7	2/2/2012	17.81	6.69	0.00	11.12	<50	<0.50	<0.50	<0.50	<1.0	6,400	2,800	5.0	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	5/14/2012	17.81	5.57	0.00	12.24	<50	<0.50	<0.50	<0.50	<1.0	5,600	2,300	4.4	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	8/13/2012	17.81	6.42	0.00	11.39	<50	<0.50	<0.50	<0.50	<1.0	4,800	2,000	3.9	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	10/25/2012	17.81	7.19	0.00	10.62	290	<0.50	<0.50	<0.50	<1.0	3,600	2,000	3.4	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	3/5/2013	17.81	6.02	0.00	11.79	<50	<0.50	<0.50	<0.50	<1.0	2,800	510	2.3	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	5/7/2013	17.81	6.15	0.00	11.66	<50	<0.50	<0.50	<0.50	<1.0	3,100	490	2.5	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	8/8/2013	17.81	7.05	0.00	10.76	<50	<0.50	<0.50	<0.50	<1.0	2,300	1,600	2.7	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-7	11/6/2013	17.81	7.72	0.00	10.09	<50	<0.50	<0.50	<0.50	<1.0	1,400	210	1.5	<0.50	<0.50	<0.50	<0.50	<250	A01

Table 2
Historic Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC	DTW	LPH	GW	TPH-G	Ethyl-			Total	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
		Elevation (feet MSL)	(feet)	Thickness (feet)	Elevation (feet MSL)		benzene	Toluene	benzene	Xylenes									
MW-8	8/4/2011	18.13	6.23	0.00	11.90	2,000	<0.50	<0.50	<0.50	<1.0	4,400	370	4.9	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-8	11/21/2011	18.13	7.02	0.00	11.11	900*	<0.50	<0.50	<0.50	<1.0	2,500	250	2.6	<0.50	<0.50	<0.50	<0.50	<250	
MW-8	2/2/2012	18.13	6.97	0.00	11.16	<50	<0.50	<0.50	<0.50	<1.0	2,400	740	2.3	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	5/14/2012	18.13	5.91	0.00	12.22	<50	<0.50	<0.50	<0.50	<1.0	2,100	590	1.7	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	8/13/2012	18.13	6.71	0.00	11.42	<50	<0.50	<0.50	<0.50	<1.0	1,600	450	1.2	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	10/25/2012	18.13	7.39	0.00	10.74	<50	<0.50	<0.50	<0.50	<1.0	810	380	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	3/5/2013	18.13	6.15	0.00	11.98	<50	<0.50	<0.50	<0.50	<1.0	100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	5/7/2013	18.13	6.41	0.00	11.72	<50	<0.50	<0.50	<0.50	<1.0	140	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	8/8/2013	18.13	7.40	0.00	10.73	<50	<0.50	<0.50	<0.50	<1.0	370	180	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-8	11/6/2013	18.13	8.13	0.00	10.00	<50	<0.50	<0.50	<0.50	<1.0	98	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-9	8/4/2011	18.75	6.59	0.00	12.16	62	<0.50	<0.50	<0.50	<1.0	59	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A90
MW-9	11/21/2011	18.75	7.45	0.00	11.30	33* J	<0.50	<0.50	<0.50	<1.0	44	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	J
MW-9	2/2/2012	18.75	7.47	0.00	11.28	<50	<0.50	<0.50	<0.50	<1.0	6.1	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-9	5/14/2012	18.75	6.30	0.00	12.45	<50	<0.50	<0.50	<0.50	<1.0	190	51	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-9	8/13/2012	18.75	7.12	0.00	11.63	<50	<0.50	<0.50	<0.50	<1.0	220	36	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-9	10/25/2012	18.75	7.87	0.00	10.88	<50	<0.50	<0.50	<0.50	<1.0	270	88	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-9	3/5/2013	18.75	6.54	0.00	12.21	<50	<0.50	<0.50	<0.50	<1.0	60	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-9	5/7/2013	18.75	6.80	0.00	11.95	<50	<0.50	<0.50	<0.50	<1.0	390	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-9	8/8/2013	18.75	7.80	0.00	10.95	<50	<0.50	<0.50	<0.50	<1.0	420	190	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-9	11/6/2013	18.75	8.62	0.00	10.13	<50	<0.50	<0.50	<0.50	<1.0	320	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-10	8/4/2011	18.84	6.73	0.00	12.11	<50	<0.50	<0.50	<0.50	<1.0	7.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	11/21/2011	18.84	7.52	0.00	11.32	<50*	<0.50	<0.50	<0.50	<1.0	1.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	2/2/2012	18.84	7.52	0.00	11.32	<50	<0.50	<0.50	<0.50	3.2	1.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	5/14/2012	18.84	6.42	0.00	12.42	<50	<0.50	<0.50	<0.50	<1.0	1.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	8/13/2012	18.84	7.24	0.00	11.60	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	10/25/2012	18.84	7.95	0.00	10.89	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	3/5/2013	18.84	6.64	0.00	12.20	<50	<0.50	<0.50	<0.50	<1.0	1.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	5/7/2013	18.84	6.92	0.00	11.92	<50	<0.50	<0.50	<0.50	<1.0	2.1	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	8/8/2013	18.84	7.93	0.00	10.91	<50	<0.50	<0.50	<0.50	<1.0	3.6	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-10	11/6/2013	18.84	8.75	0.00	10.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-11	8/4/2011	18.72	6.54	0.00	12.18	1,400	<0.50	<0.50	<0.50	<1.0	2,000	110	2.4	<0.50	<0.50	<0.50	<0.50	<250	A01, A90
MW-11	11/21/2011	18.72	7.36	0.00	11.36	850*	<0.50	<0.50	<0.50	<1.0	2,100	270	2.1	<0.50	<0.50	<0.50	<0.50	<250	
MW-11	2/2/2012	18.72	7.32	0.00	11.40	<50	<0.50	<0.50	<0.50	<1.0	2,500	730	2.0	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	5/14/2012	18.72	6.21	0.00	12.51	<50	<0.50	<0.50	<0.50	<1.0	1,700	570	1.4	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	8/13/2012	18.72	7.03	0.00	11.69	<50	<0.50	<0.50	<0.50	<1.0	1,100	280	0.87	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	10/25/2012	18.72	7.77	0.00	10.95	<50	<0.50	<0.50	<0.50	<1.0	1,000	590	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	3/5/2013	18.72	6.47	0.00	12.25	<50	<0.50	<0.50	<0.50	<1.0	750	180	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	5/7/2013	18.72	6.75	0.00	11.97	<50	<0.50	<0.50	<0.50	<1.0	1,100	140	0.81	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	8/8/2013	18.72	7.75	0.00	10.97	<50	<0.50	<0.50	<0.50	<1.0	880	680	0.91	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-11	11/6/2013	18.72	8.64	0.00	10.08	<50	<0.50	<0.50	<0.50	<1.0	380	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01

Table 2
Historic Groundwater Gauging and Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	TOC Elevation (feet MSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	TPH-G 8015B	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
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Note

Analytical results given in micrograms per liter (µg/l) unless otherwise noted

Standard Abbreviations

<	not detected at or above laboratory detection limit
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)
TOC	top of casing (surveyed reference elevation)
MSL	relative to mean sea level
DTW	depth to water
bTOC	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
TPH-G	total petroleum hydrocarbons as gasoline
MTBE	methyl tertiary butyl ether
TBA	tertiary butyl alcohol
TAME	tertiary amyl methyl ether
ETBE	ethyl tertiary butyl ether
DIPE	di-isopropyl ether
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane (same as ethylene dichloride)
8260B	EPA Method 8260B for BTEX/MTBE/Oxygenates
GC/MS	gas chromatography-mass spectrometry
A01	PQL's and MDL's are raised due to sample dilution.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
TPPH	total purgeable petroleum hydrocarbons
*	TPPH (C6 through C12)
J	Estimated Value
PQL	practical quantitation limit
MDL	method detection limit

Table 2a
Historic Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Non-Volatile Organic								Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
					Nitrate as NO3 (mg/l)	Sulfate (mg/l)	Ferrous Iron	Compounds (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium				
MW-1	8/4/2011	438	8.8	297.8	24	30	300	1.5	<2.0	<10	2.3	<3.0	99	830	63	A01, A90
MW-1	11/21/2011	378	2.3	310.6	16	23	54 J	1.1	<2.0	1.4 J	0.98 J	<3.0	220	1,100	78	
MW-1	2/2/2012	424	7.6	273.0	20	23	<100	1.2	<2.0	<10	1.4	<3.0	130	920	67	A10, S05
MW-1	5/14/2012	493	7.9	275.5	19	28	<200	1.6	2.1	<10	<1.0	<3.0	60	460	38	A10, S05
MW-1	8/13/2012	445	6.6	332.7	14	25	<100	1.4	<2.0	<10	2.6	<3.0	62	400	33	S05
MW-1	10/25/2012	405	7.8	260.1	13	23	200	1.3	2.6	<10	330	6.7	62	490	42	S05
MW-1	3/5/2013	336	5.3	288.0	10	17	<100	1.2	<2.0	<10	3.6	<3.0	46	350	33	S05
MW-1	5/7/2013	435	4.9	337.5	16	27	<100	1.5	3.2	<10	49	3.7	46	440	39	S05
MW-1	8/8/2013	252	4.4	182.3	6.9	13	110	1.7	<2.0	<10	2.5	<3.0	65	470	36	S05
MW-1	11/6/2013	341	5.6	167.7	15	22	<100	1.2	<2.0	<10	7.3	<3.0	26	190	16	S05
MW-1AR	8/4/2011	371	8.3	305.3	21	28	160	1.5	<2.0	<10	94	<3.0	15	250	9.1	
MW-1AR	11/21/2011	456.2	0.77	305.8	20	28	<100	1.4	<2.0	<10	71	1.1 J	6.7 J	220	3.4	
MW-1AR	2/2/2012	468	7.90	269.1	23	35	<100	1.6	<2.0	<10	110	<3.0	22	290	11	S05
MW-1AR	5/14/2012	474	5.60	286.0	23	33	<100	1.5	<2.0	<10	62	<3.0	16	260	8.0	S05
MW-1AR	8/13/2012	457	6.5	313.5	24	36	<100	1.6	<2.0	<10	150	<3.0	31	320	9.8	S05
MW-1AR	10/25/2012	463	6.6	251.2	23	34	<100	1.7	2.1	<10	270	<3.0	18	290	11	S05
MW-1AR	3/5/2013	410	6.4	283.2	24	32	<100	1.5	<2.0	<10	59	<3.0	<10	87	<3.0	S05
MW-1AR	5/7/2013	394	6.8	354.7	23	32	<100	3.5	2.0	<10	78	<3.0	20	590	13	S05
MW-1AR	8/8/2013	373	5.6	192.2	18	30	<100	3.8	<2.0	<10	51	<3.0	<10	110	<3.0	S05
MW-1AR	11/6/2013	343	6.4	70.0	14	25	<100	1.2	<2.0	<10	5.2	<3.0	<10	39	<3.0	S05
MW-1BR	8/4/2011	437	9.4	310.9	28	27	170	1.3	<2.0	<10	98	<3.0	13	170	7.4	A90
MW-1BR	11/21/2011	481.8	0.89	316.9	28	25	62 J	1.2	<2.0	2.8 J	26	1.7 J	9.6 J	120	4.4	
MW-1BR	2/2/2012	456	7.20	273.1	29	28	<100	1.3	<2.0	<10	40	<3.0	55	400	23	S05
MW-1BR	5/14/2012	443	4.20	287.0	24	24	<100	1.3	2.5	<10	50	<3.0	<10	340	<3.0	S05
MW-1BR	8/13/2012	435	5.8	314.3	30	29	<100	1.3	<2.0	<10	94	<3.0	<10	220	3.1	S05
MW-1BR	10/25/2012	432	5.2	266.5	28	28	<100	1.3	3.1	<10	190	<3.0	13	210	10	S05
MW-1BR	3/5/2013	402	6.7	292.6	29	27	<100	1.2	<2.0	<10	13	<3.0	<10	140	3.3	S05
MW-1BR	5/7/2013	406	6.1	355.7	30	30	<100	3.9	2.4	<10	260	<3.0	<10	510	5.0	S05
MW-1BR	8/8/2013	403	5.2	197.5	31	32	<100	2.7	<2.0	<10	80	<3.0	<10	300	5.9	S05
MW-1BR	11/6/2013	365	6.1	94.9	26	26	<100	1.1	<2.0	<10	1.7	<3.0	<10	16	<3.0	S05
MW-3	8/4/2011	614	6.1	312.8	--	--	--	--	--	--	--	--	--	--	--	
MW-3	11/21/2011	652.7	1.24	323.1	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/2/2012	576	6.00	301.8	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	5/14/2012	624	7.70	296.9	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	8/13/2012	674	8.0	292.4	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	10/25/2012	660	6.6	199.1	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	3/5/2013	653	4.9	319.8	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	5/7/2013	730	6.8	354.8	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	8/8/2013	588	3.7	223.0	--	--	--	--	--	--	--	--	--	--	--	S05
MW-3	11/6/2013	752	6.2	111.5	--	--	--	--	--	--	--	--	--	--	--	S05

Table 2a
Historic Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Non-Volatile								Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments	
					Nitrate as NO3 (mg/l)	Sulfate (mg/l)	Ferrous Iron	Organic Compounds (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium					
MW-4	8/4/2011	1,080	9.7	311.5	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/21/2011	464	4.1	321.8	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/2/2012	980	7.7	297.7	--	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	5/14/2012	1,030	8.7	296.8	--	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	8/13/2012	1,110	8.7	305.9	--	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	10/25/2012	985	5.3	225.2	--	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	3/5/2013	1,080	6.5	320.1	--	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	5/7/2013	1,120	6.5	351.1	--	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	8/8/2013	1,090	5.9	228.4	--	--	--	--	--	--	--	--	--	--	--	--	S05
MW-4	11/6/2013	910	4.2	112.3	--	--	--	--	--	--	--	--	--	--	--	--	S05
MW-5	8/4/2011	582	7.1	282.0	--	--	--	--	<2.0	<10	120	--	--	--	--	--	
MW-5	11/21/2011	616.7	1.78	297.7	--	--	--	--	<2.0	1.7 J	160	--	--	--	--	--	
MW-5	2/2/2012	620	8.00	236.9	--	--	--	--	<2.0	<10	--	--	72	--	--	--	S05
MW-5	5/14/2012	612	6.20	307.5	--	--	--	--	<2.0	<10	--	--	52	--	--	--	S05
MW-5	8/13/2012	628	7.4	321.7	--	--	--	--	<2.0	<10	--	--	85	--	--	--	S05
MW-5	10/25/2012	616	8.0	231.0	--	--	--	--	<2.0	<10	--	--	77	--	--	--	S05
MW-5	3/5/2013	570	5.0	323.0	--	--	--	--	<2.0	<10	--	--	37	--	--	--	S05
MW-5	5/7/2013	531	4.8	359.2	--	--	--	--	<2.0	<10	--	--	45	--	--	--	S05
MW-5	8/8/2013	536	5.5	232.4	--	--	--	--	<2.0	<10	--	--	<10	--	--	--	S05
MW-5	11/6/2013	558	5.2	120.4	--	--	--	--	<2.0	<10	--	--	39	--	--	--	S05
MW-6	8/4/2011	484	6.9	316.9	--	--	--	--	<2.0	<10	82	--	--	--	--	--	A90
MW-6	11/21/2011	560.8	1.12	300.6	--	--	--	--	<2.0	<10	40	--	--	--	--	--	
MW-6	2/2/2012	535	6.40	252.9	--	--	--	--	<2.0	<10	--	--	77	--	--	--	S05
MW-6	5/14/2012	525	8.30	312.0	--	--	--	--	<2.0	<10	--	--	65	--	--	--	S05
MW-6	8/13/2012	522	8.9	327.7	--	--	--	--	<2.0	<10	--	--	49	--	--	--	S05
MW-6	10/25/2012	517	8.0	267.9	--	--	--	--	<2.0	<10	--	--	34	--	--	--	S05
MW-6	3/5/2013	528	5.4	323.0	--	--	--	--	<2.0	<10	--	--	20	--	--	--	S05
MW-6	5/7/2013	537	5.2	361.6	--	--	--	--	<2.0	<10	--	--	33	--	--	--	S05
MW-6	8/8/2013	508	5.3	226.4	--	--	--	--	<2.0	<10	--	--	<10	--	--	--	S05
MW-6	11/6/2013	501	5.5	125.8	--	--	--	--	<2.0	<10	--	--	<10	--	--	--	S05
MW-7	8/4/2011	635	7.8	4.84	4.0	48	3,400	4.0	<2.0	<10	680	<3.0	58	880	36	A01, A90	
MW-7	11/21/2011	692.7	1.5	273.9	3.6	41	2,800	3.9	<2.0	<10	670	<3.0	59	790	33		
MW-7	2/2/2012	682	7.1	67.33	4.1	39	1,800	3.6	<2.0	<10	710	<3.0	<10	620	<3.0	S05	
MW-7	5/14/2012	690	8.0	72.99	5.1	36	1,700	3.2	<2.0	<10	630	<3.0	21	800	12	S05	
MW-7	8/13/2012	681	7.1	251.0	4.3	32	1,200	3.0	<2.0	<10	610	<3.0	22	750	17	A01, S05	
MW-7	10/25/2012	692	7.6	41.69	4.5	30	1,500	2.8	<2.0	<10	530	<3.0	13	570	8.9	S05	
MW-7	3/5/2013	679	6.1	48.33	4.7	29	540	2.8	<2.0	<10	600	<3.0	<10	520	<3.0	S05	
MW-7	5/7/2013	671	9.3	239.3	2.9	34	<100	7.2	<2.0	<10	470	<3.0	<10	440	<3.0	S05	
MW-7	8/8/2013	669	5.3	39.7	11.0	29	790	2.6	<2.0	<10	470	<3.0	12	640	<3.0	S05	
MW-7	11/6/2013	640	4.8	69.7	3.1	36	<100	5.6	<2.0	<10	320	<3.0	<10	330	3.1	S05	
MW-8	8/4/2011	599	7.9	239.7	5.3	48	390	3.1	<2.0	<10	760	<3.0	28	1,000	13	A01, A90	
MW-8	11/21/2011	649.00	1.50	283.9	5.3	48	530	3.4	<2.0	<10	660	1.6	30	780	13		
MW-8	2/2/2012	602	7.00	196.2	5.2	47	<100	3.4	<2.0	<10	730	<3.0	<10	800	3.6	S05	
MW-8	5/14/2012	587	8.00	102.8	6.3	45	340	3.1	<2.0	<10	630	<3.0	23	680	10	S05	

Table 2a
Historic Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Nitrate as		Ferrous Iron (mg/l)	Non-Volatile Organic				Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments	
					NO3 (mg/l)	Sulfate (mg/l)		Compounds (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese					Dissolved Vanadium
MW-8	8/13/2012	578	7.3	302.9	5.7	38	210	2.8	<2.0	<10	610	<3.0	12	730	12	A01, S05
MW-8	10/25/2012	587	7.0	70.85	4.8	36	600	3.4	<2.0	<10	560	<3.0	16	600	11	S05
MW-8	3/5/2013	533	5.7	216.6	3.7	43	<100	2.7	<2.0	<10	470	<3.0	<10	220	<3.0	S05
MW-8	5/7/2013	532	7.2	304.2	2.7	44	<100	4.2	<2.0	<10	640	<3.0	<10	700	<3.0	S05
MW-8	8/8/2013	555	5.5	78.3	12.0	38	200	2.4	<2.0	<10	470	<3.0	<10	580	4.8	S05
MW-8	11/6/2013	536	6.4	128.2	5.8	39	<100	5.8	<2.0	<10	170	<3.0	<10	530	6	S05
MW-9	8/4/2011	629	7.8	333.4	15	45	280	2.3	5.2	<10	45	<3.0	56	660	27	A90
MW-9	11/21/2011	660	2.1	271.1	16.0	38	62 J	1.9	3.8	4.8 J	9.5	1.7 J	83	880	33	
MW-9	2/2/2012	640	6.9	288.1	19	40	<200	2.0	5.2	<10	2.0	<3.0	160	1,500	68	A10, S05
MW-9	5/14/2012	631	4.2	190.8	15	35	<100	2.0	3.3	<10	30	<3.0	34	360	15	S05
MW-9	8/13/2012	621	6.7	319.5	16	39	<100	1.9	<2.0	<10	47	<3.0	39	370	15	S05
MW-9	10/25/2012	616	5.4	171.3	16.0	38	<100	1.9	3.7	<10	240	3.1	20	270	15	S05
MW-9	3/5/2013	573	7.5	264.5	16	38	<100	1.9	<2.0	<10	12	<3.0	<10	37	<3.0	S05
MW-9	5/7/2013	576	5.9	322.0	16	40	<100	2.1	2.1	<10	64	<3.0	<10	160	3.6	S05
MW-9	8/8/2013	571	7.1	165.2	15	40	<100	3.3	<2.0	<10	79	<3.0	<10	200	4.8	S05
MW-9	11/6/2013	554	6.6	130.3	12	37	<100	2.1	<2.0	<10	170	<3.0	<10	100	<3.0	S05
MW-10	8/4/2011	450	7.0	282.4	21	32	390	1.7	6.7	<10	13	<3.0	19	150	6.3	
MW-10	11/21/2011	546.4	1.12	319.1	19	30	<100	1.3	6.4	7.9 J	2.9	1.0 J	13	92	3.1	
MW-10	2/2/2012	535	6.90	297.6	20	34	<100	1.4	10	11	5.3	<3.0	16	62	3.7	S05
MW-10	5/14/2012	538	5.80	219.5	19	34	<100	1.5	11	11	4.9	<3.0	14	41	<3.0	S05
MW-10	8/13/2012	514	6.1	318.2	20	34	<100	1.4	9.4	11	7.1	<3.0	14	35	3.3	S05
MW-10	10/25/2012	512	6.5	243.9	20	34	<100	1.5	10	<10	96.0	<3.0	13	110	4.3	S05
MW-10	3/5/2013	445	3.8	292.9	19	32	<100	1.4	6.5	<10	5.4	<3.0	<10	30	3.1	S05
MW-10	5/7/2013	429	6.2	333.9	17	32	<100	3.2	6.9	<10	20	<3.0	<10	49	3.8	S05
MW-10	8/8/2013	369	8.0	193.4	15	28	<100	2.7	5.0	<10	6.5	<3.0	<10	30	<3.0	S05
MW-10	11/6/2013	342	4.7	137.2	14	23	<100	1.3	4.7	<10	3	<3.0	<10	12	<3.0	S05
MW-11	8/4/2011	685	8.0	518.6	9.8	27	210	3.1	<2.0	<10	250	<3.0	<10	980	3.6	A01, A90
MW-11	11/21/2011	765.5	1.3	240.2	6.6	26	<100	2.5	<2.0	<10	370	<3.0	2.7 J	950	2.6 J	
MW-11	2/2/2012	732	6.8	288.8	7.0	29	<100	2.7	<2.0	<10	540	<3.0	<10	830	<3.0	S05
MW-11	5/14/2012	741	5.1	521.5	6.9	30	<100	2.8	<2.0	<10	450	<3.0	<10	760	4.0	S05
MW-11	8/13/2012	708	6.3	497.2	7.9	31	<100	2.4	<2.0	<10	540	<3.0	<10	620	<3.0	S05
MW-11	10/25/2012	717	5.9	264.1	5.2	28	260	3.0	<2.0	<10	570	<3.0	23.00	620	12	S05
MW-11	3/5/2013	716	3.7	307.8	5.9	28	<100	2.7	<2.0	<10	490	3.2	<10	580	<3.0	S05
MW-11	5/7/2013	702	9.5	363.4	7.5	30	<100	3.2	<2.0	<10	630	<3.0	<10	680	4.4	S05
MW-11	8/8/2013	705	7.6	251.2	6.1	30	<100	4.7	<2.0	<10	430	<3.0	<10	590	<3.0	S05
MW-11	11/6/2013	670	4.4	145.0	6	28	<100	2.4	<2.0	<10	120	<3.0	<10	100	<3.0	S05

Table 2a
Historic Additional Groundwater Analytical Results
Unocal Site 0843
1629 Webster Street, Alameda, California

Well ID	Date Sampled	EC @ 25°C (umhos/cm)	DO (mg/l)	ORP (mV)	Nitrate as NO3 (mg/l)	Sulfate (mg/l)	Ferrous Iron	Non-Volatile Organic Compounds				Total Chromium	Total Recoverable Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
								Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium					

Note

Analytical results given in micrograms per liter (µg/l) unless otherwise noted

Standard Abbreviations

- not analyzed, measured, or collected
- < not detected at or above laboratory detection limit
- umhos/cm micromhos per centimeter
- mg/l milligrams per liter (approx. equivalent to parts per million, ppm)
- µg/l micrograms per liter (approx. equivalent to parts per billion, ppb)
- mV millivolts
- EC electrical conductivity
- DO dissolved oxygen
- ORP oxidation reduction potential
- 120.1 EPA Method 120.1 for EC
- SM-4500OG SM-4500OG for DO
- ASTM-D1498 ASTM-D1498 for ORP
- 300.0 EPA Method 300.0 for sulfate and nitrate as NO3
- SM-3500-FeD SM-3500-FeD for ferric iron
- 415.1 EPA Method 415.1 for non-volatile organic compounds
- 7196 EPA Method 7196 for hexavalent chromium
- 6010B EPA Method 6010B for dissolved and total chromium
- 200.8 EPA Method 200.8 for dissolved and total recoverable manganese and vanadium
- A01 PQL's and MDL's are raised due to sample dilution.
- A10 PQL's and MDL's were raised due to matrix interference.
- A90 TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
- S05 The sample holding time was exceeded.
- PQL practical quantitation limit
- MDL method detection limit

ARCADIS

Attachment A

Field Data Sheets and General Procedures



GETTLER-RYAN INC.



TRANSMITTAL

November 20, 2013
G-R #385600

TO: Ms. Katherine Brandt
Arcadis
2000 Powell Street, 7th Floor
Emeryville, CA 94608

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

RE: **Chevron Facility**
#351849/0843
1629 Webster Street
Alameda, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Fourth Quarter Event of November 6, 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/351646 0752

WELL CONDITION STATUS SHEET

Client/
 Facility #: Chevron #351849 / 0843
 Site Address: 1629 Webster Street
 City: Alameda, CA

Job #: 385600
 Event Date: 11/6/13
 Sampler: JW

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-1	OK	→	→	3S	OK	→		N	N	BL/8 1/2	N
MW-1AR	OK	→	→	1B	OK	→				Morrison 18 1/2	
MW-1BR	OK	→	→			→				↓	
MW-11	OK	→	→	1B	OK	→				↓	
MW-9	OK	→	→	1B	OK	→				↓	
MW-10	OK	→	→			→				Morrison 12 1/2	

Comments _____

WELL CONDITION STATUS SHEET

Client/
 Facility #: **Chevron #351849 / 0843**
 Site Address: **1629 Webster Street**
 City: **Alameda, CA**

Job #: **385600**
 Event Date: 11/6/13
 Sampler: 311

WELL ID	Vault Frame Condition	Gasket/O-Ring <small>(M) Missing (R) Replaced</small>	Bolts <small>(M) Missing (R) Replaced</small>	Bolt Flanges <small>B=Broken S=Stripped R=Retap</small>	Apron Condition <small>C=Cracked B=Broken G=Gone</small>	Grout Seal <small>(Deficient) Inches from TOC</small>	Casing <small>(Condition prevents tight cap seal)</small>	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT <small>Manufacture/Size/ # of Bolts</small>	Pictures Taken Y/N
MW-3	ok	M	ok					N	N	8" BL	✓
MW-4	ok									↓	
MW-5	ok									↓	
MW-7	ok									↓	
MW-8	ok		→	1x3	ok					8" MORRISON	
MW-6	ok									↓	✓
										12" enca	

Comments _____

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 Seaport Environmental located in Redwood City, California.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843
 Site Address: 1629 Webster Street
 City: Alameda, CA

Job Number: 385600
 Event Date: 11-6-13 (inclusive)
 Sampler: AW

Well ID: MW-1
 Well Diameter: 2 in.
 Total Depth: 20.00 ft.
 Depth to Water: 9.00 ft.

Date Monitored: 11-6-13

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.
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 11.20
 $11.00 \times VF \cdot 17 = 1.87$ x3 case volume = Estimated Purge Volume: 6.0 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: _____
 Product Transferred to: _____

Start Time (purge): 0645 Weather Conditions: Dawn
 Sample Time/Date: 0720 / 11-6-13 Water Color: Cloudy Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0650</u>	<u>2.0</u>	<u>6.57</u>	<u>0.42</u>	<u>16.0</u>	<u>PRE: 1.3</u>	<u>PRE: 59</u>
<u>0655</u>	<u>4.0</u>	<u>6.63</u>	<u>0.50</u>	<u>16.2</u>		
<u>0700</u>	<u>6.0</u>	<u>6.69</u>	<u>0.53</u>	<u>16.4</u>	<u>POST: 1.4</u>	<u>POST: 66</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x vovial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1 L Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x 1L Amber		NP		ORP (ASTM D1948)
	1 x 500ml	HNO3			TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1 x 250ml	HCl			FERROUS IRON (SM20 3500 Fe D)
	1 x 500ml	Amber	H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1 x 500ml Poly		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1 x 500ml	HNO3			DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843 Job Number: 385600
 Site Address: 1629 Webster Street Event Date: 11-6-13 (inclusive)
 City: Alameda, CA Sampler: AW

Well ID: MW-1AR Date Monitored: 11-6-13
 Well Diameter: 2 in.
 Total Depth: 29.75 ft.
 Depth to Water: 9.13 ft. Check if water column is less than 0.50 ft.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.25
 Volume Factor (VF) table:

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

 x3 case volume = Estimated Purge Volume: 10.5 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: _____
 Product Transferred to: _____

Start Time (purge): 0730 Weather Conditions: Sunny
 Sample Time/Date: 0815 / 11-6-13 Water Color: Cloudy Odor: Y / 10
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.55

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 15)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0737</u>	<u>3.5</u>	<u>6.68</u>	<u>0.34</u>	<u>16.9</u>	PRE: <u>1.3</u>	PRE: <u>101</u>
<u>0745</u>	<u>7.0</u>	<u>6.74</u>	<u>0.46</u>	<u>17.0</u>		
<u>0752</u>	<u>10.5</u>	<u>6.80</u>	<u>0.53</u>	<u>17.3</u>	POST: <u>1.5</u>	POST: <u>122</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1AR</u>	<u>6</u> x vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	<u>1 x 1L Poly</u>		<u>NP</u>		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	<u>2 x 1L Amber</u>		<u>NP</u>		ORP (ASTM D1948)
	<u>1 x 500ml</u>		<u>HN03</u>		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	<u>1 x 250ml</u>		<u>HCl</u>		FERROUS IRON (SM20 3500 Fe D)
	<u>1 x 500ml Amber</u>		<u>H2604</u>		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	<u>1 x 500ml</u>		<u>NP</u>		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	<u>1 x 500ml</u>		<u>HN03</u>		DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351849 / 0843
 Site Address: 1629 Webster Street
 City: Alameda, CA

Job Number: 385600
 Event Date: 11-6-13 (inclusive)
 Sampler: AW

Well ID: MW-1BR
 Well Diameter: 2 in.
 Total Depth: 34.48 ft.
 Depth to Water: 9.02 ft.

Date Monitored: 11-6-13

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

Depth to Water Check if water column is less than 0.50 ft.
 $25.46 \times VF .17 = 4.32$ x3 case volume = Estimated Purge Volume: 13.0 gal.
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 14.11

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: _____
 Product Transferred to: _____

Start Time (purge): 0825
 Sample Time/Date: 0915 / 11-6-13
 Approx. Flow Rate: 1.0 gpm.
 Did well de-water? N If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Sunny
 Water Color: Cloudy Odor: Y
 Sediment Description: Cloudy
 DTW @ Sampling: 13.66

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0829</u>	<u>4.0</u>	<u>6.69</u>	<u>0.37</u>	<u>17.6</u>	PRE: <u>1.3</u>	PRE: <u>112</u>
<u>0833</u>	<u>8.0</u>	<u>6.73</u>	<u>0.42</u>	<u>18.0</u>		
<u>0838</u>	<u>13.0</u>	<u>6.78</u>	<u>0.49</u>	<u>18.1</u>	POST: <u>1.5</u>	POST: <u>99</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1BR</u>	<u>6</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(8015)/BTX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)</u>
	<u>1 x 1L Poly</u>		<u>NP</u>		<u>SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)</u>
	<u>2 x 1L Amber</u>		<u>NP</u>		<u>ORP (ASTM D1948)</u>
	<u>1 x 500ml</u>		<u>HNO3</u>		<u>TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)</u>
	<u>1 x 250ml</u>		<u>HCL</u>		<u>FERROUS IRON (SM20 3500 Fe D)</u>
	<u>1 x 500ml Amber</u>		<u>H2SO4</u>		<u>TOC (415.1)</u>
					<u>HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)</u>
					<u>TOTAL CHROMIUM(6010)</u>
	<u>1 x 500ml</u>		<u>NP</u>		<u>NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM</u>
	<u>1 x 500 ml</u>		<u>HNO3</u>		<u>DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)</u>

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 #351849 / 0843
 Site Address: 1629 Webster Street
 City: Alameda, CA

Job Number: 385600
 Event Date: 11/16/13 (inclusive)
 Sampler: JH

Well ID: MW-3
 Well Diameter: 2 in.
 Total Depth: 19.83 ft.
 Depth to Water: 8.10 ft.
11.73 xVF .17 = 1.99

Date Monitored: 11/16/13

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.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.44

x3 case volume = Estimated Purge Volume: 5.98 gal.

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 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:	_____
Product Transferred to:	_____

Start Time (purge): 1005
 Sample Time/Date: 1045 / 11/16/13
 Approx. Flow Rate: _____ gpm.
 Did well de-water? M If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Clear
 Water Color: Cloudy Odor: Y 10
 Sediment Description: L. 100
 DTW @ Sampling: 9.81

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>S</u>)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1010</u>	<u>2</u>	<u>7.62</u>	<u>581</u>	<u>19.5</u>	<u>PRE: 1.2</u>	<u>PRE: 16</u>
<u>1016</u>	<u>4</u>	<u>7.49</u>	<u>595</u>	<u>19.2</u>		
<u>1021</u>	<u>6</u>	<u>7.37</u>	<u>611</u>	<u>19.3</u>	<u>POST: 1.0</u>	<u>POST: 27</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	TPH-GRO(8015)/BTX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	<u>1</u>				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	<u>2</u>				ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
					NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
					DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843 Job Number: 385600
 Site Address: 1629 Webster Street Event Date: 11/6/13 (inclusive)
 City: Alameda, CA Sampler: JH

Well ID: MW-4 Date Monitored: 11/6/13
 Well Diameter: 2 in.
 Total Depth: 16.57 ft.
 Depth to Water: 7.98 ft. Check if water column is less than 0.50 ft.
8.59 xVF .17 = 1.46 x3 case volume = Estimated Purge Volume: 4.38 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.69

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: _____
 Product Transferred to: _____

Start Time (purge): 0855 Weather Conditions: Clear
 Sample Time/Date: 0940 / 11/6/13 Water Color: cloudy Odor: Y / 0
 Approx. Flow Rate: - gpm. Sediment Description: L.S.M.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - C)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0900</u>	<u>1.5</u>	<u>7.46</u>	<u>1007</u>	<u>19.4</u>	PRE: <u>1.9</u>	PRE: <u>38</u>
<u>0905</u>	<u>3.0</u>	<u>7.40</u>	<u>1029</u>	<u>19.2</u>		
<u>0910</u>	<u>4.5</u>	<u>7.27</u>	<u>1046</u>	<u>19.1</u>	POST: <u>1.7</u>	POST: <u>22</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	TPH-GRO(8015)/BTX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	<u>1</u>				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	<u>2</u>				ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
					NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
					DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843
 Site Address: 1629 Webster Street
 City: Alameda, CA

Job Number: 385600
 Event Date: 11/6/13 (inclusive)
 Sampler: JH

Well ID: MW-5
 Well Diameter: 2 in.
 Total Depth: 20.28 ft.
 Depth to Water: 7.15 ft.

Date Monitored: 11/6/13

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.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.77
 xVF .17 = 2.23 x3 case volume = Estimated Purge Volume: 6.69 gal.

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 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: _____
 Product Transferred to: _____

Start Time (purge): 0630 Weather Conditions: Clear
 Sample Time/Date: 0705 / 11/6/13 Water Color: cloudy Odor: Y / 6
 Approx. Flow Rate: _____ gpm. Sediment Description: cloudy
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.05

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>6</u>)	Temperature (<u>6</u> / F)	D.O. (mg/L)	ORP (mV)
<u>0635</u>	<u>2</u>	<u>7.63</u>	<u>581</u>	<u>19.2</u>	PRE: <u>1.4</u>	PRE: <u>137</u>
<u>0640</u>	<u>4</u>	<u>7.51</u>	<u>554</u>	<u>19.1</u>		
<u>0645</u>	<u>7</u>	<u>7.28</u>	<u>526</u>	<u>19.0</u>	POST: <u>1.1</u>	POST: <u>101</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2				ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
	1				HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
	1				TOTAL CHROMIUM(6010)
					NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
					DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843 Job Number: 385600
 Site Address: 1629 Webster Street Event Date: 11/6/13 (inclusive)
 City: Alameda, CA Sampler: JH

Well ID: MW-6 Date Monitored: 11/6/13
 Well Diameter: 2 in.
 Total Depth: 20.15 ft.
 Depth to Water: 7.15 ft. Check if water column is less than 0.50 ft.
13.00 xVF .17 = 2.21 x3 case volume = Estimated Purge Volume: 6.63 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.75

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: _____
 Product Transferred to: _____

Start Time (purge): 0735 Weather Conditions: Clear
 Sample Time/Date: 0810 / 11/6/13 Water Color: cloudy Odor: Y / 0
 Approx. Flow Rate: _____ gpm. Sediment Description: cloudy
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 9.28

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - v)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0740</u>	<u>2</u>	<u>7.47</u>	<u>461</u>	<u>19.0</u>	PRE: <u>1.0</u>	PRE: <u>125</u>
<u>0745</u>	<u>4</u>	<u>7.40</u>	<u>495</u>	<u>19.1</u>		
<u>0750</u>	<u>6.5</u>	<u>7.28</u>	<u>522</u>	<u>19.2</u>	POST: <u>1.1</u>	POST: <u>86</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2				ORP (ASTM D1948)
					TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
					FERROUS IRON (SM20 3500 Fe D)
					TOC (415.1)
	1				HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
	1				TOTAL CHROMIUM(6010)
					NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
					DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843
 Site Address: 1629 Webster Street
 City: Alameda, CA

Job Number: 385600
 Event Date: 11/6/13 (inclusive)
 Sampler: JH

Well ID: MW- 7
 Well Diameter: 2 in.
 Total Depth: 29.11 ft.
 Depth to Water: 7.72 ft.

Date Monitored: 11/6/13

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 21.39 xVF .17 = 3.63 x3 case volume = Estimated Purge Volume: 10.90 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.99

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer X
 Metal Filters X
 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:	_____
Product Transferred to:	_____

Start Time (purge): 1210
 Sample Time/Date: 1255 / 11/6/13
 Approx. Flow Rate: 1 gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: clean
 Water Color: cloudy Odor: Y / N
 Sediment Description: cloudy
 DTW @ Sampling: 10.64

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1214</u>	<u>4</u>	<u>7.61</u>	<u>681</u>	<u>19.5</u>	PRE: <u>1.0</u>	PRE: <u>129</u>
<u>1218</u>	<u>8</u>	<u>7.53</u>	<u>695</u>	<u>19.2</u>		
<u>1221</u>	<u>11</u>	<u>7.28</u>	<u>728</u>	<u>19.1</u>	POST: <u>1.1</u>	POST: <u>104</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 7	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2				ORP (ASTM D1948)
	1				TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1				FERROUS IRON (SM20 3500 Fe D)
	1				TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1				NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1				DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843
 Site Address: 1629 Webster Street
 City: Alameda, CA

Job Number: 385600
 Event Date: 11/6/13 (inclusive)
 Sampler: JH

Well ID: MW- 8
 Well Diameter: 2 in.
 Total Depth: 29.55 ft.
 Depth to Water: 8.13 ft.

Date Monitored: 11/6/13

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

Depth to Water Check if water column is less than 0.50 ft.
21.42 xVF .17 = 3.64 x3 case volume = Estimated Purge Volume: 10.92 gal.
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 12.41

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer X
 Metal Filters X
 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: _____
 Product Transferred to: _____

Start Time (purge): 1105 Weather Conditions: clear
 Sample Time/Date: 1155 / 11/6/13 Water Color: cloudy Odor: Y / 0
 Approx. Flow Rate: 1 gpm. Sediment Description: L.O.H
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1108</u>	<u>3</u>	<u>7.81</u>	<u>588</u>	<u>19.4</u>	PRE: <u>1.2</u>	PRE: <u>107</u>
<u>1111</u>	<u>6</u>	<u>7.65</u>	<u>559</u>	<u>19.2</u>		
<u>1116</u>	<u>11</u>	<u>7.52</u>	<u>543</u>	<u>19.1</u>	POST: <u>1.3</u>	POST: <u>89</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 8	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTEX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1				SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2				ORP (ASTM D1948)
	1				TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1				FERROUS IRON (SM20 3500 Fe D)
	1				TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1				NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1				DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843
 Site Address: 1629 Webster Street
 City: Alameda, CA

Job Number: 385600
 Event Date: 11-6-13 (inclusive)
 Sampler: AW

Well ID: MW-9
 Well Diameter: 2 in.
 Total Depth: 24.45 ft.
 Depth to Water: 8.62 ft.

Date Monitored: 11-6-13

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

Depth to Water Check if water column is less than 0.50 ft.
 $15.83 \times VF .17 = 2.69$ x3 case volume = Estimated Purge Volume: 8.0 gal.
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 11.78

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: _____
 Product Transferred to: _____

Start Time (purge): 1025 Weather Conditions: Sunny
 Sample Time/Date: 1115 / 11-6-13 Water Color: Cloudy Odor: Y / 100
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.72

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1035</u>	<u>3.0</u>	<u>6.64</u>	<u>0.56</u>	<u>19.9</u>	PRE: <u>1.4</u>	PRE: <u>98</u>
<u>1045</u>	<u>6.0</u>	<u>6.72</u>	<u>0.66</u>	<u>20.2</u>		
<u>1055</u>	<u>8.0</u>	<u>6.80</u>	<u>0.72</u>	<u>20.4</u>	POST: <u>1.3</u>	POST: <u>114</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	6 x vovial	YES	HCL	BC LABS	TPH-GRO(8015)/BTX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1 x 1L Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x 1L Amber		NP		ORP (ASTM D1948)
	1 x 500ml		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1 x 250ml		HCl		FERROUS IRON (SM20 3500 Fe D)
	1 x 500ml Amber		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1 x 500 ml		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1 x 500ml		HNO3		DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843 Job Number: 385600
 Site Address: 1629 Webster Street Event Date: 11-6-13 (inclusive)
 City: Alameda, CA Sampler: AW

Well ID: MW-10
 Well Diameter: 2 in.
 Total Depth: 29.06 ft.
 Depth to Water: 8.75 ft.

Date Monitored: 11-6-13

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]: 12.81
 $20.31 \times VF .17 = 3.45$ x3 case volume = Estimated Purge Volume: 10.5 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: _____
 Product Transferred to: _____

Start Time (purge): 1130 Weather Conditions: Sunny
 Sample Time/Date: 1235 / 11-6-13 Water Color: Cloudy Odor: Y/A
 Approx. Flow Rate: _____ gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.84

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1140</u>	<u>3.5</u>	<u>6.65</u>	<u>0.34</u>	<u>20.2</u>	<u>PRE: 1.2</u>	<u>PRE: 90</u>
<u>1155</u>	<u>7.0</u>	<u>6.74</u>	<u>0.40</u>	<u>20.7</u>		
<u>1215</u>	<u>10.5</u>	<u>6.78</u>	<u>0.45</u>	<u>20.8</u>	<u>POST: 1.3</u>	<u>POST: 104</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	6 x vial	YES	HCL	BC LABS	TPH-GRO(8015)/BTX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1 x 1L Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x 1L Amber		NP		ORP (ASTM D1948)
	1 x 500ml		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1 x 250ml		HCl		FERROUS IRON (SM20 3500 Fe D)
	1 x 500ml Amber		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1 x 500ml		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1 x 500ml		HNO3		DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

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 #351849 / 0843 Job Number: 385600
 Site Address: 1629 Webster Street Event Date: 11-6-13 (inclusive)
 City: Alameda, CA Sampler: AW

Well ID: MW-11 Date Monitored: 11-6-13
 Well Diameter: 2 in.
 Total Depth: 27.52 ft.
 Depth to Water: 8.64 ft. Check if water column is less than 0.50 ft.
18.88 x VF .17 = 3.20 x3 case volume = Estimated Purge Volume: 10.0 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.41

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: _____
 Product Transferred to: _____

Start Time (purge): 0930 Weather Conditions: Sunny
 Sample Time/Date: 1010 / 11-6-13 Water Color: Cloudy Odor: Y 100
 Approx. Flow Rate: 1.0 gpm. Sediment Description: Cloudy
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0933</u>	<u>3.0</u>	<u>6.69</u>	<u>0.67</u>	<u>19.8</u>	PRE: <u>1.4</u>	PRE: <u>109</u>
<u>0936</u>	<u>6.0</u>	<u>6.73</u>	<u>0.88</u>	<u>20.2</u>		
<u>0940</u>	<u>10.0</u>	<u>6.80</u>	<u>0.94</u>	<u>20.5</u>	POST: <u>1.5</u>	POST: <u>123</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x vovial	YES	HCL	BC LABS	TPH-GRO(8015)/BTX+MTBE(8260)/TBA/TAME/ETBE/DIPE/EDB/EDC(8260)/ETHANOL(8260)
	1 x 1L Poly		NP		SPECIFIC CONDUCTANCE(120.1)/D.O.(SM20 4500-O)
	2 x 1L Amber		NP		ORP (ASTM D1948)
	1 x 500ml		HNO3		TOTAL MANGANESE(200.8)/TOTAL CHROMIUM(6010)/TOTAL VANADIUM(200.8)
	1 x 250ml		HCL		FERROUS IRON (SM20 3500 Fe D)
	1 x 500ml		H2SO4		TOC (415.1)
					HEXAVALENT CHROMIUM(7196)/DISSOLVED CHROMIUM (6010)
					TOTAL CHROMIUM(6010)
	1 x 500ml		NP		NITRATE/SULFATE(300.0)/HEXAVALENT CHROMIUM
	1 x 500ml		HNO3		DISSOLVED MANGANESE(200.8)/DISSOLVED CHROMIUM(6010)/DISSOLVED VANADIUM(200.8)

COMMENTS: _____

ARCADIS

Attachment B

Historical Groundwater Results from TRC

**Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**February 14, 2011
Former 76 Station 0843**

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														
2/14/2011	19.13	6.78	0	12.35	1.35	--	580	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	1100	
MW-1AR														
2/14/2011	19.29	7.01	0	12.28	1.19	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	91	
MW-1BR														
2/14/2011	19.13	6.96	0	12.17	1.50	--	80	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
MW-3														
2/14/2011	18.05	6.04	0	12.01	1.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
MW-4														
2/14/2011	18.14	5.94	0	12.20	1.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5														
2/14/2011	16.45	5.49	0	10.96	0.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-6														
2/14/2011	16.97	5.63	0	11.34	0.91	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	180	
MW-7														
2/14/2011	17.81	6.33	0	11.48	0.90	--	7900	ND<50	ND<50	ND<50	ND<100	--	13000	
MW-8														
2/14/2011	18.13	6.22	0	11.91	1.38	--	3900	ND<25	ND<25	ND<25	ND<50	--	7100	
MW-9														
2/14/2011	18.75	6.69	0	12.06	1.33	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
MW-10														
2/14/2011	18.84	6.71	0	12.13	1.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
MW-11														
2/14/2011	18.72	6.52	0	12.20	1.48	--	3500	ND<6.2	ND<6.2	ND<6.2	ND<12	--	7400	

Table 1a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	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)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferrous (µg/l)	Comments
MW-1													
2/14/2011	99	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.6	2.7	91	ND<10	ND<500	
MW-1AR													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	2.6	ND<10	ND<10	420	
MW-1BR													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	3.7	34	ND<10	290	
MW-3													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	
MW-4													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	
MW-5													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	
MW-6													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--	
MW-7													
2/14/2011	ND<1000	ND<25000	ND<50	ND<50	ND<50	ND<50	ND<50	4.1	ND<2.0	43	ND<10	2700	
MW-8													
2/14/2011	ND<500	ND<12000	ND<25	ND<25	ND<25	ND<25	ND<25	3.7	ND<2.0	59	ND<10	440	
MW-9													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	6.6	22	ND<10	230	
MW-10													
2/14/2011	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	14	18	15	160	
MW-11													
2/14/2011	670	ND<3100	ND<6.2	ND<6.2	ND<6.2	ND<6.2	ND<6.2	3.5	ND<2.0	14	ND<10	240	

**Table 1b
ADDITIONAL CURRENT ANALYTICAL RESULTS**

Former 76 Station 0843

Date Sampled	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
MW-1												
2/14/2011	5.4	530	18	25	8.9	418.5	509	6.45	4.45	355	356	
MW-1AR												
2/14/2011	150	190	21	32	7.3	217.9	537	1.31	1.48	349	362	
MW-1BR												
2/14/2011	73	170	29	28	8.1	286.1	531	1.07	1.74	356	351	
MW-3												
2/14/2011	--	--	--	--	4.9	288.9	587	1.15	2.43	187	188	
MW-4												
2/14/2011	--	--	--	--	9.2	294.6	770	7.02	6.84	187	172	
MW-5												
2/14/2011	--	--	--	--	6.0	317.6	617	1.55	2.81	179	195	
MW-6												
2/14/2011	--	--	--	--	5.2	326.6	542	1.01	2.16	195	198	
MW-7												
2/14/2011	920	1000	2.9	55	8.0	191.4	713	0.94	1.20	198	76	
MW-8												
2/14/2011	830	1400	5.8	75	8.0	267.0	694	2.81	3.44	197	188	
MW-9												
2/14/2011	60	440	8.1	29	9.5	305.5	690	0.78	0.64	349	346	
MW-10												
2/14/2011	43	45	13	30	9.2	326.6	560	2.25	3.77	342	355	
MW-11												
2/14/2011	560	760	3.1	21	9.4	473.7	750	0.88	0.56	337	324	

**Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**February 14, 2011
Former 76 Station 0843**

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														
3/5/1999	16.18	--	--	--	--	86.6	--	ND	2.04	ND	4.06	--	23.9	
6/3/1999	16.18	6.24	0	9.94	--	ND	--	ND	ND	ND	ND	ND	ND	
9/2/1999	16.18	7.19	0	8.99	-0.95	ND	--	ND	ND	ND	ND	ND	ND	
12/14/1999	16.18	8.07	0	8.11	-0.88	ND	--	ND	ND	ND	ND	ND	--	
3/14/2000	16.18	5.47	0	10.71	2.60	ND	--	ND	ND	ND	ND	ND	--	
5/31/2000	16.18	6.22	0	9.96	-0.75	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	16.18	6.82	0	9.36	-0.60	ND	--	ND	ND	ND	ND	ND	--	
12/1/2000	16.18	7.54	0	8.64	-0.72	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	16.18	5.73	0	10.45	1.81	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	16.18	6.43	0	9.75	-0.70	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	16.18	7.12	0	9.06	-0.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/2001	16.18	6.89	0	9.29	0.23	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/11/2002	16.18	5.61	0	10.57	1.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2002	16.18	5.71	0	10.47	-0.10	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
9/3/2002	16.18	--	--	--	--	--	--	--	--	--	--	--	--	Not monitored/sampled
12/12/2002	16.18	7.80	0	8.38	--	--	--	--	--	--	--	--	--	No longer sampled
3/13/2003	16.18	5.94	0	10.24	1.86	--	--	--	--	--	--	--	--	
6/12/2003	16.18	6.10	0	10.08	-0.16	--	--	--	--	--	--	--	--	
9/12/2003	16.18	6.65	0	9.53	-0.55	--	--	--	--	--	--	--	--	
12/31/2003	16.18	5.74	0	10.44	0.91	--	--	--	--	--	--	--	--	Monitored only
2/12/2004	16.18	6.02	0	10.16	-0.28	--	--	--	--	--	--	--	--	Monitored only
6/7/2004	16.18	6.61	0	9.57	-0.59	--	--	--	--	--	--	--	--	Monitored only
9/17/2004	16.18	7.58	0	8.60	-0.97	--	--	--	--	--	--	--	--	Sampled Q1 only
12/11/2004	16.18	6.49	0	9.69	1.09	--	--	--	--	--	--	--	--	Sampled Q1 only
3/15/2005	16.18	5.28	0	10.90	1.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
5/17/2005	16.18	5.83	0	10.35	-0.55	--	--	--	--	--	--	--	--	Sampled Q1 only
7/27/2005	16.18	6.52	0	9.66	-0.69	--	--	--	--	--	--	--	--	Sampled Q1 only
11/23/2005	16.18	7.28	0	8.90	-0.76	--	--	--	--	--	--	--	--	Sampled Q1 only
2/24/2006	16.18	6.60	0	9.58	0.68	--	910	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5100	
5/30/2006	16.18	6.48	0	9.70	0.12	--	--	--	--	--	--	--	--	Sampled Q1 only
8/30/2006	16.18	9.51	0	6.67	-3.03	--	--	--	--	--	--	--	--	Sampled Q1 only
11/22/2006	16.18	7.05	0	9.13	2.46	--	220	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	420	
2/23/2007	16.18	6.40	0	9.78	0.65	--	1300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	1700	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
5/18/2007	16.18	6.65	0	9.53	-0.25	--	2300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	3300	
8/10/2007	16.18	7.26	0	8.92	-0.61	--	4100	ND<25	ND<25	ND<25	ND<25	--	4300	
11/9/2007	16.18	7.40	0	8.78	-0.14	--	5700	ND<25	ND<25	ND<25	ND<25	--	5400	
2/8/2008	16.18	6.09	0	10.09	1.31	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	4100	
5/16/2008	16.18	6.87	0	9.31	-0.78	--	1800	ND<12	ND<12	ND<12	42	--	3500	
8/15/2008	16.18	7.78	0	8.40	-0.91	--	1200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1900	
11/26/2008	16.18	8.65	0	7.53	-0.87	--	720	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2400	
2/24/2009	19.13	6.73	0	12.40	4.87	--	630	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2300	
5/28/2009	19.13	6.46	0	12.67	0.27	--	1000	ND<10	ND<10	ND<10	ND<20	--	4100	
9/14/2009	19.13	7.60	0	11.53	-1.14	--	1700	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2100	
11/13/2009	19.13	7.83	0	11.30	-0.23	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	19.13	6.72	0	12.41	1.11	--	1600	ND<12	ND<12	ND<12	ND<25	--	3400	
6/7/2010	19.13	6.58	0	12.55	0.14	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	19.13	7.20	0	11.93	-0.62	--	280	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	1400	
11/11/2010	19.13	8.13	0	11.00	-0.93	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	19.13	6.78	0	12.35	1.35	--	580	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	1100	
MW-1AR														
5/28/2009	19.29	7.25	0	12.04	--	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	930	
9/14/2009	19.29	7.83	0	11.46	-0.58	--	480	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	890	
11/13/2009	19.29	8.07	0	11.22	-0.24	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	580	
2/5/2010	19.29	7.15	0	12.14	0.92	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	350	
6/7/2010	19.29	6.90	0	12.39	0.25	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	200	
8/3/2010	19.29	7.48	0	11.81	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	81	
11/11/2010	19.29	8.20	0	11.09	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
2/14/2011	19.29	7.01	0	12.28	1.19	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	91	
MW-1BR														
5/28/2009	19.13	6.70	0	12.43	--	--	290	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	810	
9/14/2009	19.13	7.80	0	11.33	-1.10	--	450	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	680	
11/13/2009	19.13	7.88	0	11.25	-0.08	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	490	
2/5/2010	19.13	7.84	0	11.29	0.04	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	
6/7/2010	19.13	7.28	0	11.85	0.56	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
8/3/2010	19.13	7.44	0	11.69	-0.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	
11/11/2010	19.13	8.46	0	10.67	-1.02	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	230	
2/14/2011	19.13	6.96	0	12.17	1.50	--	80	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	

MW-2

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
3/5/1999	15.57	--	0	--	--	34400	--	2070	7710	2340	8240	--	8460	
6/3/1999	15.57	5.96	0	9.61	--	51200	--	1820	7570	2510	7320	6460	8800	
9/2/1999	15.57	6.85	0	8.72	-0.89	17000	--	1000	3100	1400	3700	4000	3720	
12/14/1999	15.57	7.65	0	7.92	-0.80	83000	--	3000	22000	4500	17000	9100	11000	
3/14/2000	15.57	5.26	0	10.31	2.39	31000	--	1600	4600	2300	7300	5700	8700	
5/31/2000	15.57	5.60	0	9.97	-0.34	9970	--	598	1030	487	2060	2500	1670	
8/29/2000	15.57	6.35	0	9.22	-0.75	7900	--	390	1500	280	1900	1800	1300	
12/1/2000	15.57	7.06	0	8.51	-0.71	87500	--	1860	17400	5590	19400	6220	3790	
3/17/2001	15.57	5.98	0	9.59	1.08	4310	--	371	59.0	280	682	321	433	
5/23/2001	15.57	6.97	0	8.60	-0.99	45400	--	374	4490	2790	10900	ND	406	
9/24/2001	15.57	7.56	0	8.01	-0.59	76000	--	430	13000	4700	18000	ND<2000	480	
12/10/2001	15.57	6.52	0	9.05	1.04	82000	--	320	9100	4400	16000	ND<2500	270	
3/11/2002	15.57	5.51	0	10.06	1.01	14000	--	75	1400	1100	3600	ND<250	150	
6/7/2002	15.57	5.73	0	9.84	-0.22	14000	--	120	1200	1400	4700	540	200	
9/3/2002	15.57	6.81	0	8.76	-1.08	10000	--	150	1200	610	2800	510	460	
12/12/2002	15.57	--	--	--	--	--	--	--	--	--	--	--	--	troyed; Replaced with MW.
MW-2A														
12/12/2002	15.56	7.45	0	8.11	--	3400	--	80	260	210	1000	380	400	
3/13/2003	--	5.85	0	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	1.8	2.4	2.4	
6/12/2003	--	6.08	0	--	--	ND<50	--	0.59	0.69	ND<0.50	1.2	6.0	4.7	
9/12/2003	15.56	6.54	0	9.02	--	--	120	1.8	4.2	6.1	20	--	6.6	
12/31/2003	15.56	5.63	0	9.93	0.91	88	--	0.79	1.8	3.6	14	ND<5.0	2.9	
2/12/2004	15.56	5.68	0	9.88	-0.05	160	--	2.6	4.8	13	48	7.2	7.9	
6/7/2004	15.56	6.21	0	9.35	-0.53	94	--	0.80	1.2	2.1	9.1	4.5	3.7	
9/17/2004	15.56	7.16	0	8.40	-0.95	--	230	3.5	6.1	13	41	--	83	
12/11/2004	15.56	5.84	0	9.72	1.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
3/15/2005	15.56	5.52	0	10.04	0.32	--	92	0.84	1.7	2.4	9.8	--	ND<10	
5/17/2005	15.56	5.55	0	10.01	-0.03	--	54	2.1	1.7	1.9	7.0	--	2.9	
7/27/2005	15.56	6.16	0	9.40	-0.61	--	ND<50	0.66	1.1	1.3	4.2	--	3.7	
11/23/2005	15.56	6.88	0	8.68	-0.72	--	120	1.3	2.8	7.8	30	--	10	
2/24/2006	15.56	5.79	0	9.77	1.09	--	84	0.51	1.2	4.2	16	--	7.2	
5/30/2006	15.56	5.62	0	9.94	0.17	--	69	0.90	2.2	3.7	14	--	4.1	
8/30/2006	15.56	6.38	0	9.18	-0.76	--	77	ND<0.50	0.50	1.0	3.3	--	2.5	
11/22/2006	15.56	6.60	0	8.96	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	2.2	--	0.59	

**Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**February 14, 2011
Former 76 Station 0843**

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
2/23/2007	15.56	6.05	0	9.51	0.55	--	ND<50	ND<0.50	0.66	ND<0.50	1.1	--	0.72	
5/18/2007	15.56	6.29	0	9.27	-0.24	--	ND<50	ND<0.50	ND<0.50	0.68	1.6	--	0.81	
8/10/2007	15.56	6.90	0	8.66	-0.61	--	ND<50	ND<0.50	ND<0.50	1.6	3.9	--	ND<0.50	
11/9/2007	15.56	6.96	0	8.60	-0.06	--	ND<50	ND<0.50	ND<0.50	2.4	4.4	--	ND<0.50	
2/8/2008	15.56	5.76	0	9.80	1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/16/2008	15.56	6.50	0	9.06	-0.74	--	ND<50	ND<0.50	ND<0.50	0.56	1.2	--	ND<0.50	
8/15/2008	15.56	7.35	0	8.21	-0.85	--	78	ND<0.50	0.79	2.9	6.5	--	ND<0.50	
11/26/2008	15.56	8.12	0	7.44	-0.77	--	120	0.56	0.66	4.6	6.0	--	1.8	
2/24/2009	18.51	6.19	0	12.32	4.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-3														
3/5/1999	15.11	--	0	--	--	135	--	ND	ND	ND	4.84	--	2.46	
6/3/1999	15.11	5.57	0	9.54	--	ND	--	ND	ND	ND	ND	5.23	12.7	
9/2/1999	15.11	6.50	0	8.61	-0.93	ND	--	ND	ND	ND	ND	13	11	
12/14/1999	15.11	7.28	0	7.83	-0.78	ND	--	ND	ND	ND	ND	ND	--	
3/14/2000	15.11	4.87	0	10.24	2.41	ND	--	ND	ND	ND	ND	7.2	6.3	
5/31/2000	15.11	5.58	0	9.53	-0.71	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	15.11	6.06	0	9.05	-0.48	ND	--	ND	ND	ND	ND	ND	ND	
12/1/2000	15.11	6.76	0	8.35	-0.70	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	15.11	5.09	0	10.02	1.67	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	15.11	5.72	0	9.39	-0.63	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	15.11	6.34	0	8.77	-0.62	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/2001	15.11	6.31	0	8.80	0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/11/2002	15.11	5.15	0	9.96	1.16	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2002	15.11	5.45	0	9.66	-0.30	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/2002	15.11	7.15	0	7.96	-1.70	--	--	--	--	--	--	--	--	No longer sampled
3/13/2003	15.11	5.37	0	9.74	1.78	--	--	--	--	--	--	--	--	
6/12/2003	15.11	5.51	0	9.60	-0.14	--	--	--	--	--	--	--	--	
9/12/2003	15.11	6.03	0	9.08	-0.52	--	--	--	--	--	--	--	--	
12/31/2003	15.11	5.62	0	9.49	0.41	--	--	--	--	--	--	--	--	Monitored only
2/12/2004	15.11	5.51	0	9.60	0.11	--	--	--	--	--	--	--	--	Monitored only
6/7/2004	15.11	5.92	0	9.19	-0.41	--	--	--	--	--	--	--	--	Monitored only
9/17/2004	15.11	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/11/2004	15.11	5.94	0	9.17	--	--	--	--	--	--	--	--	--	Sampled annually
3/11/2005	15.11	4.76	0	10.35	1.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

**Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**February 14, 2011
Former 76 Station 0843**

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
5/17/2005	15.11	5.23	0	9.88	-0.47	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/27/2005	15.11	5.81	0	9.30	-0.58	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/2005	15.11	6.60	0	8.51	-0.79	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/24/2006	15.11	5.37	0	9.74	1.23	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.2	
5/30/2006	15.11	5.08	0	10.03	0.29	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.92	
8/30/2006	15.11	5.52	0	9.59	-0.44	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.51	
11/22/2006	15.11	6.38	0	8.73	-0.86	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.94	
2/23/2007	15.11	5.72	0	9.39	0.66	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.61	
5/18/2007	15.11	5.94	0	9.17	-0.22	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
8/10/2007	15.11	7.64	0	7.47	-1.70	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/9/2007	15.11	6.75	0	8.36	0.89	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
2/8/2008	15.11	5.39	0	9.72	1.36	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/16/2008	15.11	6.17	0	8.94	-0.78	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
8/15/2008	15.11	7.01	0	8.10	-0.84	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.3	
11/26/2008	15.11	7.73	0	7.38	-0.72	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	
2/24/2009	18.05	5.98	0	12.07	4.69	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
5/28/2009	18.05	5.64	0	12.41	0.34	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/14/2009	18.05	6.88	0	11.17	-1.24	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/13/2009	18.05	7.02	0	11.03	-0.14	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	18.05	6.02	0	12.03	1.00	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
6/7/2010	18.05	5.92	0	12.13	0.10	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	18.05	6.47	0	11.58	-0.55	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.78	
11/11/2010	18.05	7.40	0	10.65	-0.93	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	18.05	6.04	0	12.01	1.36	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
MW-4														
3/5/1999	15.17	--	0	--	--	ND	--	ND	ND	ND	2.44	--	25.2	
6/3/1999	15.17	5.45	0	9.72	--	ND	--	ND	ND	ND	ND	ND	3.96	
9/2/1999	15.17	6.48	0	8.69	-1.03	ND	--	ND	ND	ND	ND	23	27	
12/14/1999	15.17	7.27	0	7.90	-0.79	ND	--	ND	ND	ND	ND	200	270	
3/14/2000	15.17	4.67	0	10.50	2.60	ND	--	ND	ND	ND	ND	46	49	
5/31/2000	15.17	5.48	0	9.69	-0.81	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	15.17	6.10	0	9.07	-0.62	ND	--	ND	ND	ND	ND	6.1	3.2	
12/1/2000	15.17	6.79	0	8.38	-0.69	ND	--	ND	ND	ND	ND	152	101	
3/17/2001	15.17	5.01	0	10.16	1.78	ND	--	ND	ND	ND	ND	ND	--	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
5/23/2001	15.17	5.78	0	9.39	-0.77	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	15.17	6.42	0	8.75	-0.64	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/2001	15.17	6.41	0	8.76	0.01	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1700	1300	
3/11/2002	15.17	5.05	0	10.12	1.36	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2002	15.17	5.42	0	9.75	-0.37	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
9/3/2002	15.17	6.50	0	8.67	-1.08	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/12/2002	15.17	7.18	0	7.99	-0.68	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.9	3.3	
3/13/2003	15.17	5.42	0	9.75	1.76	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
6/12/2003	15.17	5.60	0	9.57	-0.18	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
9/12/2003	15.17	6.07	0	9.10	-0.47	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/31/2003	15.17	5.63	0	9.54	0.44	750	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	790	--	
2/12/2004	15.17	5.26	0	9.91	0.37	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2004	15.17	5.82	0	9.35	-0.56	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
9/17/2004	15.17	6.86	0	8.31	-1.04	--	56	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
12/11/2004	15.17	6.01	0	9.16	0.85	--	350	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	380	
3/11/2005	15.17	4.61	0	10.56	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/17/2005	15.17	4.93	0	10.24	-0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/27/2005	15.17	5.74	0	9.43	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/2005	15.17	6.59	0	8.58	-0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	23	
2/24/2006	15.17	5.19	0	9.98	1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.7	
5/30/2006	15.17	5.07	0	10.10	0.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/30/2006	15.17	6.02	0	9.15	-0.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/22/2006	15.17	6.37	0	8.80	-0.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	16	
2/23/2007	15.17	5.61	0	9.56	0.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
5/18/2007	15.17	5.87	0	9.30	-0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
8/10/2007	15.17	7.49	0	7.68	-1.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/9/2007	15.17	6.77	0	8.40	0.72	--	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	39	
2/8/2008	15.17	5.10	0	10.07	1.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/16/2008	15.17	6.06	0	9.11	-0.96	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/15/2008	15.17	6.91	0	8.26	-0.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.1	--	ND<0.50	
11/26/2008	15.17	7.71	0	7.46	-0.80	--	55	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
2/24/2009	18.14	5.96	0	12.18	4.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.8	
5/28/2009	18.14	5.70	0	12.44	0.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/14/2009	18.14	6.76	0	11.38	-1.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

**Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**February 14, 2011
Former 76 Station 0843**

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
11/13/2009	18.14	6.97	0	11.17	-0.21	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	18.14	5.55	0	12.59	1.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.91	
6/7/2010	18.14	5.78	0	12.36	-0.23	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	18.14	6.47	0	11.67	-0.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/11/2010	18.14	7.42	0	10.72	-0.95	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	18.14	5.94	0	12.20	1.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5														
12/14/1999	13.34	6.45	0	6.89	--	ND	--	ND	ND	ND	ND	3.5	3.8	
3/14/2000	13.34	4.46	0	8.88	1.99	ND	--	ND	ND	ND	ND	ND	--	
5/31/2000	13.34	5.18	0	8.16	-0.72	ND	--	ND	ND	ND	ND	ND	--	
8/29/2000	13.34	5.46	0	7.88	-0.28	ND	--	ND	ND	ND	ND	ND	--	
12/1/2000	13.34	5.95	0	7.39	-0.49	ND	--	ND	ND	ND	ND	ND	--	
3/17/2001	13.34	5.36	0	7.98	0.59	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	13.34	5.09	0	8.25	0.27	ND	--	ND	ND	ND	ND	ND	--	
9/24/2001	13.34	5.58	0	7.76	-0.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
12/10/2001	13.34	5.51	0	7.83	0.07	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/11/2002	13.34	4.70	0	8.64	0.81	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2002	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/3/2002	13.34	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
12/12/2002	13.34	6.42	0	6.92	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
3/13/2003	13.34	5.12	0	8.22	1.30	ND<50	--	ND<0.50	0.54	ND<0.50	ND<0.50	ND<2.0	--	
6/12/2003	13.34	5.24	0	8.10	-0.12	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
9/12/2003	13.34	5.53	0	7.81	-0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/31/2003	13.34	5.11	0	8.23	0.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
2/12/2004	13.34	5.02	0	8.32	0.09	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
6/7/2004	13.34	5.35	0	7.99	-0.33	ND<50	--	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
9/17/2004	13.34	6.10	0	7.24	-0.75	--	--	--	--	--	--	--	--	Sampled annually
12/11/2004	13.34	5.53	0	7.81	0.57	--	--	--	--	--	--	--	--	Sampled annually
3/11/2005	13.34	4.96	0	8.38	0.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/17/2005	13.34	5.04	0	8.30	-0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/27/2005	13.34	5.31	0	8.03	-0.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/2005	13.34	5.86	0	7.48	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/24/2006	13.34	5.08	0	8.26	0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/30/2006	13.34	5.01	0	8.33	0.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
8/30/2006	13.34	5.65	0	7.69	-0.64	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/22/2006	13.34	5.82	0	7.52	-0.17	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
2/23/2007	13.34	4.47	0	8.87	1.35	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.53	--	ND<0.50	
5/18/2007	13.34	5.51	0	7.83	-1.04	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
8/10/2007	13.34	6.05	0	7.29	-0.54	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/9/2007	13.34	6.10	0	7.24	-0.05	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
2/8/2008	13.34	5.06	0	8.28	1.04	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/16/2008	13.34	5.69	0	7.65	-0.63	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/15/2008	13.34	6.35	0	6.99	-0.66	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/26/2008	13.34	6.82	0	6.52	-0.47	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/24/2009	16.45	5.10	0	11.35	4.83	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/28/2009	16.45	5.12	0	11.33	-0.02	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/14/2009	16.45	6.29	0	10.16	-1.17	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/13/2009	16.45	6.23	0	10.22	0.06	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	16.45	5.38	0	11.07	0.85	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/7/2010	16.45	5.39	0	11.06	-0.01	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	16.45	5.89	0	10.56	-0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/11/2010	16.45	6.36	0	10.09	-0.47	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	16.45	5.49	0	10.96	0.87	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-6														
12/14/1999	14.08	6.64	0	7.44	--	ND	--	ND	ND	ND	ND	11000	18000	
3/14/2000	14.08	4.72	0	9.36	1.92	ND	--	ND	ND	ND	ND	19000	21000	
5/31/2000	14.08	5.28	0	8.80	-0.56	ND	--	ND	ND	ND	ND	13200	--	
8/29/2000	14.08	5.39	0	8.69	-0.11	ND	--	ND	ND	ND	ND	270	400	
12/1/2000	14.08	6.11	0	7.97	-0.72	ND	--	ND	ND	ND	ND	6330	3640	
3/17/2001	14.08	6.02	0	8.06	0.09	18700	--	2950	989	1040	3000	10200	11500	
5/23/2001	14.08	5.82	0	8.26	0.20	ND	--	ND	ND	ND	ND	4660	--	
9/24/2001	14.08	6.59	0	7.49	-0.77	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	160	190	
12/10/2001	14.08	6.50	0	7.58	0.09	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3200	2400	
3/11/2002	14.08	4.81	0	9.27	1.69	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	92	120	
6/7/2002	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/3/2002	14.08	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
12/12/2002	14.08	6.51	0	7.57	--	590	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1500	6200	
3/13/2003	14.08	5.20	0	8.88	1.31	--	--	--	--	--	--	--	5100	

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
3/13/2003	14.08	5.20	0	8.88	1.31	1600	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4900	4100	
6/12/2003	14.08	5.38	0	8.70	-0.18	1600	--	ND<10	ND<10	ND<10	ND<10	5200	3700	
9/12/2003	14.08	6.29	0	7.79	-0.91	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	310	
12/31/2003	14.08	5.38	0	8.70	0.91	3300	--	ND<25	ND<25	ND<25	ND<25	3800	--	
2/12/2004	14.08	5.06	0	9.02	0.32	1100	--	ND<10	ND<10	ND<10	ND<10	1900	2800	
6/7/2004	14.08	5.45	0	8.63	-0.39	2500	--	ND<3	ND<3	ND<3	ND<6	3200	2900	
9/17/2004	14.08	6.20	0	7.88	-0.75	--	1300	ND<10	ND<10	ND<10	ND<20	--	2000	
12/11/2004	14.08	5.60	0	8.48	0.60	--	1800	ND<10	ND<10	ND<10	ND<20	--	2700	
3/11/2005	14.08	4.71	0	9.37	0.89	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	2500	
5/17/2005	14.08	4.98	0	9.10	-0.27	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2200	
7/27/2005	14.08	5.48	0	8.60	-0.50	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1100	
11/23/2005	14.08	6.01	0	8.07	-0.53	--	590	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1700	
2/24/2006	14.08	5.12	0	8.96	0.89	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	990	
5/30/2006	14.08	5.04	0	9.04	0.08	--	ND<1200	ND<12	ND<12	ND<12	ND<25	--	560	
8/30/2006	14.08	7.01	0	7.07	-1.97	--	930	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	820	
11/22/2006	14.08	6.16	0	7.92	0.85	--	690	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	620	
2/23/2007	14.08	5.44	0	8.64	0.72	--	190	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	410	
5/18/2007	14.08	5.63	0	8.45	-0.19	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	620	
8/10/2007	14.08	6.71	0	7.37	-1.08	--	390	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	660	
11/9/2007	14.08	6.17	0	7.91	0.54	--	580	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	820	
2/8/2008	14.08	5.20	0	8.88	0.97	--	360	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	570	
5/16/2008	14.08	5.70	0	8.38	-0.50	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	480	
8/15/2008	14.08	6.46	0	7.62	-0.76	--	160	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	450	
11/26/2008	14.08	7.01	0	7.07	-0.55	--	300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	400	
2/24/2009	16.97	5.20	0	11.77	4.70	--	250	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	450	
5/28/2009	16.97	5.26	0	11.71	-0.06	--	74	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
9/14/2009	16.97	6.30	0	10.67	-1.04	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	
11/13/2009	16.97	6.40	0	10.57	-0.10	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/5/2010	16.97	5.89	0	11.08	0.51	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	
6/7/2010	16.97	5.52	0	11.45	0.37	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
8/3/2010	16.97	5.96	0	11.01	-0.44	--	71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	180	
11/11/2010	16.97	6.54	0	10.43	-0.58	--	--	--	--	--	--	--	--	Sampled Q1 and Q3 only
2/14/2011	16.97	5.63	0	11.34	0.91	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	180	

MW-7

Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 14, 2011
Former 76 Station 0843

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
5/28/2009	17.81	8.29	0	9.52	--	--	1100	ND<0.50	ND<0.50	1.4	7.1	--	15000	
9/14/2009	17.81	6.77	0	11.04	1.52	--	7900	ND<25	ND<25	ND<25	ND<50	--	15000	
11/13/2009	17.81	6.78	0	11.03	-0.01	--	5700	ND<10	ND<10	ND<10	ND<20	--	13000	
2/5/2010	17.81	8.50	0	9.31	-1.72	--	4300	ND<12	ND<12	ND<12	ND<25	--	12000	
6/7/2010	17.81	5.74	0	12.07	2.76	--	7100	ND<12	ND<12	ND<12	ND<25	--	16000	
8/3/2010	17.81	6.36	0	11.45	-0.62	--	1600	ND<10	ND<10	ND<10	ND<20	--	12000	
11/11/2010	17.81	7.23	0	10.58	-0.87	--	2600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	13000	
2/14/2011	17.81	6.33	0	11.48	0.90	--	7900	ND<50	ND<50	ND<50	ND<100	--	13000	
MW-8														
5/28/2009	18.13	7.42	0	10.71	--	--	850	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12000	
9/14/2009	18.13	6.97	0	11.16	0.45	--	3500	ND<25	ND<25	ND<25	ND<50	--	5600	
11/13/2009	18.13	7.11	0	11.02	-0.14	--	3200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6700	
2/5/2010	18.13	7.38	0	10.75	-0.27	--	2400	ND<10	ND<10	ND<10	ND<20	--	6300	
6/7/2010	18.13	6.07	0	12.06	1.31	--	4200	ND<10	ND<10	ND<10	ND<20	--	9000	
8/3/2010	18.13	6.56	0	11.57	-0.49	--	1200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	5600	
11/11/2010	18.13	7.60	0	10.53	-1.04	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	4900	
2/14/2011	18.13	6.22	0	11.91	1.38	--	3900	ND<25	ND<25	ND<25	ND<50	--	7100	
MW-9														
5/28/2009	18.75	6.24	0	12.51	--	--	1200	ND<0.50	ND<0.50	0.75	15	--	13000	
9/14/2009	18.75	7.36	0	11.39	-1.12	--	280	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	390	
11/13/2009	18.75	7.56	0	11.19	-0.20	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	280	
2/5/2010	18.75	6.70	0	12.05	0.86	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	190	
6/7/2010	18.75	6.59	0	12.16	0.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	66	
8/3/2010	18.75	7.00	0	11.75	-0.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	99	
11/11/2010	18.75	8.02	0	10.73	-1.02	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	270	
2/14/2011	18.75	6.69	0	12.06	1.33	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
MW-10														
5/28/2009	18.84	6.69	0	12.15	--	--	700	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3500	
9/14/2009	18.84	7.50	0	11.34	-0.81	--	3300	ND<6.2	ND<6.2	ND<6.2	ND<12	--	4900	
11/13/2009	18.84	7.70	0	11.14	-0.20	--	1500	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	3300	
2/5/2010	18.84	6.66	0	12.18	1.04	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	260	
6/7/2010	18.84	6.56	0	12.28	0.10	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.9	
8/3/2010	18.84	7.14	0	11.70	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	
11/11/2010	18.84	8.16	0	10.68	-1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
2/14/2011	18.84	6.71	0	12.13	1.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	

**Table 2
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**February 14, 2011
Former 76 Station 0843**

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														
5/28/2009	18.72	6.18	0	12.54	--	--	920	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15000	
9/14/2009	18.72	7.45	0	11.27	-1.27	--	11000	ND<25	ND<25	ND<25	ND<50	--	18000	
11/13/2009	18.72	7.51	0	11.21	-0.06	--	6200	ND<10	ND<10	ND<10	ND<20	--	13000	
2/5/2010	18.72	7.50	0	11.22	0.01	--	4500	ND<12	ND<12	ND<12	ND<25	--	13000	
6/7/2010	18.72	6.36	0	12.36	1.14	--	4300	ND<10	ND<10	ND<10	ND<20	--	9500	
8/3/2010	18.72	6.90	0	11.82	-0.54	--	1400	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6000	
11/11/2010	18.72	8.00	0	10.72	-1.10	--	1600	ND<5.0	ND<5.0	ND<5.0	ND<10	--	6100	
2/14/2011	18.72	6.52	0	12.20	1.48	--	3500	ND<6.2	ND<6.2	ND<6.2	ND<12	--	7400	

**Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS**

Former 76 Station 0843

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
MW-1													
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
3/15/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	62	ND<250	--	--	--	ND<0.50	ND<0.50	5.5	--	--	--	--	
11/22/2006	74	ND<250	--	--	--	ND<0.50	ND<0.50	0.51	--	--	--	--	
2/23/2007	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
5/18/2007	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
8/10/2007	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	--	--	--	--	
11/9/2007	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	--	--	--	--	
2/8/2008	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
5/16/2008	ND<250	ND<6200	--	--	--	ND<12	ND<12	ND<12	--	--	--	--	
8/15/2008	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	2.5	1.3	--	--	--	
5/28/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	1.8	2.0	87	--	
9/14/2009	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	1.4	2.2	220	--	
2/5/2010	ND<250	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--	
8/3/2010	140	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.5	ND<2.0	70	ND<10	
2/14/2011	99	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.6	2.7	91	ND<10	
MW-1AR													
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	1.6	--	--	--	--	
9/14/2009	110	ND<500	--	--	--	ND<1.0	ND<1.0	ND<1.0	4.5	ND<2.0	170	--	
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.1	ND<2.0	25	ND<10	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	ND<2.0	ND<10	ND<10	
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.3	ND<2.0	14	ND<10	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	2.6	ND<10	ND<10	
MW-1BR													
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	2.0	--	--	--	--	
9/14/2009	33	ND<500	--	--	--	ND<1.0	ND<1.0	1.9	3.7	ND<2.0	250	--	
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	1.2	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	ND<2.0	26	ND<10	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	ND<2.0	25	ND<10	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	ND<2.0	12	ND<10	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	3.7	34	ND<10	
MW-2													
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
12/14/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
3/14/2000	1300	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
5/31/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
8/29/2000	250	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
12/1/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
3/17/2001	ND	ND	ND	--	ND	14.8	ND	ND	--	--	--	--	
5/23/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
9/24/2001	ND<5000	ND<5000000	ND<100	--	ND<100	ND<100	ND<100	ND<100	--	--	--	--	
12/10/2001	ND<500	ND<1200000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--	
3/11/2002	ND<1000	ND<5000000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--	--	
6/7/2002	ND<1000	ND<2000000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--	
9/3/2002	ND<1000	ND<5000000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--	--	
MW-2A													
12/12/2002	ND<100	ND<500000	ND<2.0	--	2.3	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
3/13/2003	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
6/12/2003	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
9/12/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
12/31/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
2/12/2004	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
6/7/2004	ND<12	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--	
9/17/2004	6.7	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
12/11/2004	ND<5.0	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
3/15/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	17	--	--	--	
MW-3													
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	3.2	--	--	--	
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
MW-4													
9/2/1999	ND	ND	--	--	--	ND	ND	ND	--	--	--	--	
12/10/2001	ND<290	ND<710000	ND<14	--	ND<14	ND<14	ND<14	ND<14	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
12/12/2002	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
9/12/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--	
9/17/2004	ND<5.0	ND<50	--	--	--	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
12/11/2004	ND<25	ND<250	--	--	--	ND<5.0	ND<2.5	ND<2.5	--	--	--	--	
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/8/2008	ND<10	290	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	1.7	--	--	--	
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
MW-5													
9/12/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--	
3/11/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/17/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/27/2005	ND<5.0	ND<50	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2006	59	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/30/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	

**Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS**

Former 76 Station 0843

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
11/22/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	4.5	--	--	--	
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/14/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
MW-6													
3/17/2001	ND	ND	ND	--	219	ND	ND	ND	--	--	--	--	
9/24/2001	ND<100	ND<1000000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
12/10/2001	ND<500	ND<1200000	ND<25	--	ND<25	ND<25	ND<25	ND<25	--	--	--	--	
3/11/2002	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
12/12/2002	ND<10000	ND<5000000	ND<200	--	ND<200	ND<200	ND<200	ND<200	--	--	--	--	
3/13/2003	ND<5000	ND<2500000	ND<100	--	ND<100	ND<100	ND<100	ND<100	--	--	--	--	
6/12/2003	ND<2000	ND<1000000	ND<40	--	ND<40	ND<40	ND<40	ND<40	--	--	--	--	
9/12/2003	--	ND<2500	--	--	--	--	--	--	--	--	--	--	
2/12/2004	ND<2000	ND<10000	ND<40	--	ND<40	ND<40	ND<40	ND<40	--	--	--	--	
6/7/2004	ND<200	ND<8000	ND<5	--	ND<5	ND<10	ND<10	ND<10	--	--	--	--	
9/17/2004	ND<100	ND<1000	--	--	--	ND<20	ND<10	ND<10	--	--	--	--	
12/11/2004	ND<100	ND<1000	--	--	--	ND<20	ND<10	ND<10	--	--	--	--	
3/11/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--	
5/17/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--	
7/27/2005	ND<100	ND<1000	--	--	--	ND<10	ND<10	ND<10	--	--	--	--	
11/23/2005	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	1.0	--	--	--	--	
2/24/2006	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	0.68	--	--	--	--	
5/30/2006	ND<250	ND<6200	--	--	--	ND<12	ND<12	ND<12	--	--	--	--	
8/30/2006	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
11/22/2006	ND<100	ND<2500	--	--	--	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
2/23/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/18/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/10/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/9/2007	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	0.52	--	--	--	--	
2/8/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
5/16/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/15/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
11/26/2008	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/24/2009	ND<10	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	2.7	--	--	--	
5/28/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/14/2009	23	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	41	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/3/2010	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
MW-7													
5/28/2009	150	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--	
9/14/2009	680	ND<12000	--	--	--	ND<25	ND<25	ND<25	9.8	ND<2.0	76	--	
11/13/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
2/5/2010	1600	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--	
6/7/2010	ND<250	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	3.9	ND<2.0	11	ND<10	
8/3/2010	1400	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	3.6	ND<2.0	79	ND<10	
11/11/2010	1200	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.1	ND<2.0	27	ND<10	
2/14/2011	ND<1000	ND<25000	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	4.1	ND<2.0	43	ND<10	
MW-8													
5/28/2009	36	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	9.7	9.9	ND<2.0	140	--	
9/14/2009	ND<500	ND<12000	--	--	--	ND<25	ND<25	ND<25	14	ND<2.0	60	--	
11/13/2009	ND<100	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
2/5/2010	960	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
6/7/2010	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	4.0	ND<2.0	21	ND<10	
8/3/2010	670	ND<2500	ND<5.0	ND<0.010	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.9	ND<2.0	74	ND<10	
11/11/2010	ND<1000	ND<25000	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.7	ND<2.0	46	ND<10	
2/14/2011	ND<500	ND<12000	ND<25	--	ND<25	ND<25	ND<25	ND<25	3.7	ND<2.0	59	ND<10	
MW-9													
5/28/2009	40	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	11	--	--	--	--	

Table 2a
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Comments
9/14/2009	24	ND<250	--	--	--	ND<0.50	ND<0.50	ND<0.50	3.0	ND<2.0	520	--	
11/13/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/5/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	6.1	24	ND<10	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6	2.5	25	ND<10	
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	2.6	24	ND<10	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	6.6	22	ND<10	
MW-10													
5/28/2009	39	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	4.6	2.4	2.0	ND<10	--	
9/14/2009	240	ND<3100	--	--	--	ND<6.2	ND<6.2	ND<6.2	2.7	ND<2.0	24	--	
11/13/2009	ND<50	ND<1200	ND<2.5	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	--	--	--	
2/5/2010	35	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
6/7/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	6.5	15	ND<10	
8/3/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	8.7	19	ND<10	
11/11/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	10	20	11	
2/14/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	14	18	15	
MW-11													
5/28/2009	140	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	9.4	--	--	--	--	
9/14/2009	850	ND<12000	--	--	--	ND<25	ND<25	ND<25	3.3	ND<2.0	14	--	
11/13/2009	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
2/5/2010	1600	ND<6200	ND<12	--	ND<12	ND<12	ND<12	ND<12	--	--	--	--	
6/7/2010	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	3.0	ND<2.0	ND<10	ND<10	
8/3/2010	620	ND<2500	ND<5.0	ND<0.010	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.9	ND<2.0	ND<10	ND<10	
11/11/2010	ND<100	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.8	ND<2.0	17	ND<10	
2/14/2011	670	ND<3100	ND<6.2	--	ND<6.2	ND<6.2	ND<6.2	ND<6.2	3.5	ND<2.0	14	ND<10	

**Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS**

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
MW-1													
9/2/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
3/15/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	--
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	--
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	--
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	--
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
2/24/2009	ND<100	ND<1.0	500	--	18	--	--	--	4.63	3.22	57	59	
5/28/2009	ND<500	2.4	550	9.9	25	8.6	130	463	0.80	2.95	119	171	
9/14/2009	ND<100	3.7	1600	11	25	6.8	204	429	1.93	3.81	233	146	
2/5/2010	--	--	--	--	--	--	--	--	0.83	1.42	66	71	
8/3/2010	ND<100	1.8	1100	16	24	6.7	333.4	508	1.10	1.68	172	158	
2/14/2011	ND<500	5.4	530	18	25	8.9	418.5	509	6.45	4.45	355	356	
MW-1AR													
5/28/2009	--	--	--	--	--	--	--	--	1.72	0.95	144	177	
9/14/2009	2500	570	830	17	39	7.0	205	655	1.68	1.83	235	187	
11/13/2009	--	--	--	--	--	--	--	--	3.13	2.98	174	16	
2/5/2010	--	--	--	--	--	--	--	--	0.37	0.94	79	75	
6/7/2010	490	210	450	21	30	6.1	273.4	554	0.79	1.27	56	78	
8/3/2010	550	180	230	21	31	8.1	225.1	537	0.39	0.58	148	108	
11/11/2010	370	210	330	20	31	7.6	206.5	545	2.67	2.46	204	216	
2/14/2011	420	150	190	21	32	7.3	217.9	537	1.31	1.48	349	362	
MW-1BR													
5/28/2009	--	--	--	--	--	--	--	--	0.61	1.37	145	165	
9/14/2009	ND<500	230	930	17	59	6.7	207	673	0.46	1.02	228	143	
11/13/2009	--	--	--	--	--	--	--	--	5.74	4.59	151	107	
2/5/2010	--	--	--	--	--	--	--	--	0.38	0.82	85	79	
6/7/2010	380	110	180	27	30	6.6	479.4	539	0.74	1.42	48	10	
8/3/2010	240	130	230	26	28	7.3	271.8	548	0.37	0.43	54	59	

**Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS**

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
11/11/2010	250	130	170	ND<0.44	28	7.0	227.8	540	1.78	1.43	212	212	
2/14/2011	290	73	170	29	28	8.1	286.1	531	1.07	1.74	356	351	
MW-2													
9/2/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
12/14/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
3/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
5/31/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
8/29/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
12/1/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
3/17/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
5/23/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
9/24/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
12/10/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
3/11/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
6/7/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
9/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2A													
12/12/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
3/13/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
6/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
9/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
12/31/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
2/12/2004	--	--	--	--	--	--	--	--	--	--	--	--	--
6/7/2004	--	--	--	--	--	--	--	--	--	--	--	--	--
9/17/2004	--	--	--	--	--	--	--	--	--	--	--	--	--
12/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	--
3/15/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS**

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (umhos)	Post-purge Dissolved Oxygen (l)	Pre-purge Dissolved Oxygen (l)	Pre-purge ORP (l)	Post-purge ORP (l)	Comments
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	110	ND<1.0	130	--	87	--	--	--	3.38	4.44	50	34	
MW-3													
9/2/1999	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	ND<1.0	1100	--	130	--	--	--	5.01	2.30	46	49	
5/28/2009	--	--	--	--	--	--	--	--	0.61	4.03	141	85	
9/14/2009	--	--	--	--	--	6.6	196	658	0.49	2.02	146	119	
2/5/2010	--	--	--	--	--	--	--	--	1.04	2.64	338	71	
8/3/2010	--	--	--	--	--	6.7	279.4	601	0.95	2.24	103	103	
2/14/2011	--	--	--	--	--	4.9	288.9	587	1.15	2.43	187	188	
MW-4													
9/2/1999	--	--	--	--	--	--	--	--	--	--	--	--	
12/10/2001	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (umhos)	Post-purge Dissolved Oxygen (l)	Pre-purge Dissolved Oxygen (l)	Pre-purge ORP (l)	Post-purge ORP (l)	Comments
12/12/2002	--	--	--	--	--	--	--	--	--	--	--	--	
9/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
9/17/2004	--	--	--	--	--	--	--	--	--	--	--	--	
12/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	3.1	250	--	130	--	--	--	6.15	4.27	61	64	
5/28/2009	--	--	--	--	--	--	--	--	3.68	3.76	141	55	
9/14/2009	--	--	--	--	--	7.1	195	1020	2.16	2.78	142	63	
2/5/2010	--	--	--	--	--	--	--	--	8.59	7.70	309	326	
8/3/2010	--	--	--	--	--	8.3	280.9	1110	5.26	2.88	102	106	
2/14/2011	--	--	--	--	--	9.2	294.6	770	7.02	6.84	187	172	
MW-5													
9/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS**

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (umhos)	Post-purge Dissolved Oxygen (l)	Pre-purge Dissolved Oxygen (l)	Pre-purge ORP (l)	Post-purge ORP (l)	Comments
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	ND<1.0	720	--	64	--	--	--	5.65	2.58	27	34	
5/28/2009	--	--	--	--	--	--	--	--	1.71	4.32	138	94	
9/14/2009	--	--	--	--	--	4.0	204	609	0.64	2.08	147	115	
2/5/2010	--	--	--	--	--	--	--	--	2.08	2.59	295	71	
8/3/2010	--	--	--	--	--	8.6	288.2	611	7.12	2.08	62	102	
2/14/2011	--	--	--	--	--	6.0	317.6	617	1.55	2.81	179	195	
MW-6													
3/17/2001	--	--	--	--	--	--	--	--	--	--	--	--	
9/24/2001	--	--	--	--	--	--	--	--	--	--	--	--	
12/10/2001	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2002	--	--	--	--	--	--	--	--	--	--	--	--	
12/12/2002	--	--	--	--	--	--	--	--	--	--	--	--	
3/13/2003	--	--	--	--	--	--	--	--	--	--	--	--	
6/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
9/12/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/12/2004	--	--	--	--	--	--	--	--	--	--	--	--	
6/7/2004	--	--	--	--	--	--	--	--	--	--	--	--	
9/17/2004	--	--	--	--	--	--	--	--	--	--	--	--	
12/11/2004	--	--	--	--	--	--	--	--	--	--	--	--	
3/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
5/17/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/27/2005	--	--	--	--	--	--	--	--	--	--	--	--	
11/23/2005	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2006	--	--	--	--	--	--	--	--	--	--	--	--	
5/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	
8/30/2006	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS**

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (umhos)	Post-purge Dissolved Oxygen (l)	Pre-purge Dissolved Oxygen (l)	Pre-purge ORP (l)	Post-purge ORP (l)	Comments
11/22/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/23/2007	--	--	--	--	--	--	--	--	--	--	--	--	
5/18/2007	--	--	--	--	--	--	--	--	--	--	--	--	
8/10/2007	--	--	--	--	--	--	--	--	--	--	--	--	
11/9/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/8/2008	--	--	--	--	--	--	--	--	--	--	--	--	
5/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	
8/15/2008	--	--	--	--	--	--	--	--	--	--	--	--	
11/26/2008	--	--	--	--	--	--	--	--	--	--	--	--	
2/24/2009	ND<100	1.2	2300	--	85	--	--	--	3.40	1.29	68	67	
5/28/2009	--	--	--	--	--	--	--	--	1.06	1.85	142	56	
9/14/2009	--	--	--	--	--	7.1	205	595	0.46	1.07	154	118	
2/5/2010	--	--	--	--	--	--	--	--	2.96	2.73	314	135	
8/3/2010	--	--	--	--	--	8.0	291.7	530	0.72	1.35	96	103	
2/14/2011	--	--	--	--	--	5.2	326.6	542	1.01	2.16	195	198	
MW-7													
5/28/2009	--	--	--	--	--	--	--	--	1.24	0.63	160	124	
9/14/2009	3200	2000	2200	4.2	180	6.9	217	1030	0.26	1.35	-13	-53	
11/13/2009	--	--	--	--	--	--	--	--	--	0.76	1	-24	
2/5/2010	--	--	--	--	--	--	--	--	1.46	0.69	-10	-7	
6/7/2010	1200	1200	1500	4.1	72	8.2	342.6	801	0.57	1.10	11	-13	
8/3/2010	4500	1100	1500	3.9	69	8.9	105.6	745	2.18	1.05	112	105	
11/11/2010	2000	1000	1000	2.3	67	6.3	54.88	740	1.45	2.32	176	190	
2/14/2011	2700	920	1000	2.9	55	8.0	191.4	713	0.94	1.20	198	76	
MW-8													
5/28/2009	ND<1000	280	830	12	130	9.0	124	923	2.22	1.38	146	68	
9/14/2009	480	1000	1300	7.7	260	6.2	407	1100	0.28	1.11	151	92	
11/13/2009	--	--	--	--	--	--	--	--	3.51	0.84	111	72	
2/5/2010	--	--	--	--	--	--	--	--	1.17	0.58	88	63	
6/7/2010	620	870	1200	6.1	81	8.3	350.3	791	0.72	1.27	22	35	
8/3/2010	1500	860	1300	6.8	85	8.9	218.5	733	3.03	0.90	88	101	
11/11/2010	430	810	1000	5.2	83	7.7	229.2	724	1.31	0.98	179	170	
2/14/2011	440	830	1400	5.8	75	8.0	267.0	694	2.81	3.44	197	188	
MW-9													
5/28/2009	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL CURRENT ANALYTICAL RESULTS

Former 76 Station 0843

Date Sampled	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	Comments
9/14/2009	ND<1000	180	4700	5.0	68	7.3	204	580	3.58	4.16	236	171	
11/13/2009	--	--	--	--	--	--	--	--	5.06	4.22	81	105	
2/5/2010	--	--	--	--	--	--	--	--	0.93	1.25	102	102	
6/7/2010	280	200	1100	6.9	41	7.9	380.3	665	0.95	1.46	61	39	
8/3/2010	160	120	540	5.8	42	7.2	300.6	651	1.02	0.70	48	64	
11/11/2010	ND<500	180	1000	6.0	35	6.5	217.8	686	1.92	2.72	201	207	
2/14/2011	230	60	440	8.1	29	9.5	305.5	690	0.78	0.64	349	346	
MW-10													
5/28/2009	150	280	350	9.1	30	7.1	139	661	0.30	1.76	151	156	
9/14/2009	210	280	380	6.3	33	6.1	205	675	2.19	0.67	235	114	
11/13/2009	--	--	--	--	--	--	--	--	1.20	1.58	95	77	
2/5/2010	--	--	--	--	--	--	--	--	0.83	0.98	87	87	
6/7/2010	260	18	340	10	29	8.1	379.1	490	3.24	3.26	82	84	
8/3/2010	150	10	150	12	27	8.4	315.2	476	3.71	3.62	74	62	
11/11/2010	ND<100	9.2	160	13	28	7.6	175.6	529	3.07	4.23	190	207	
2/14/2011	160	43	45	13	30	9.2	326.6	560	2.25	3.77	342	355	
MW-11													
5/28/2009	--	--	--	--	--	--	--	--	0.22	0.80	1.56	147	
9/14/2009	310	570	740	0.73	37	6.7	192	780	0.81	0.82	224	49	
11/13/2009	--	--	--	--	--	--	--	--	0.35	1.52	53	23	
2/5/2010	--	--	--	--	--	--	--	--	1.33	1.56	280	126	
6/7/2010	310	280	980	1.5	20	7.0	501.3	737	0.70	1.31	97	44	
8/3/2010	100	440	730	3.3	20	6.9	317.6	727	0.54	1.21	12	-20	
11/11/2010	990	610	830	2.7	23	6.6	145.0	718	0.60	2.02	192	211	
2/14/2011	240	560	760	3.1	21	9.4	473.7	750	0.88	0.56	337	324	

ARCADIS

Attachment C

Laboratory Report and Chain-of-Custody Documentation



Date of Report: 11/21/2013

Kathy Brandt

Arcadis

2000 Powell Street 7th Floor
Emeryville, CA 94608

Project: 0843
BC Work Order: 1324272
Invoice ID: B160490

Enclosed are the results of analyses for samples received by the laboratory on 11/6/2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; AK UST101



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BC Laboratories, Inc.

Environmental Testing Laboratory Since 1949

CHAIN OF CUSTODY FORM

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

COC _____ of _____

13-24272

Union Oil Site ID: 0843
 Site Global ID: T0600102263
 Site Address: 1629 Webster St. Alameda CA
 Union Oil PM: Tim Bishop
 Union Oil PM Phone No.: 925-790-6463
 Charge Code: NWRTE-0351849-0-LAB

Union Oil Consultant: Arcadis
 Consultant Contact: Katherine Brandt
 Consultant Phone No.: 510-596-9615
 Sampling Company: Gettler-Ryan
 Sampled By (PRINT): Alex Wong
 Sampler Signature: *[Signature]*
 BC Laboratories, Inc.
 Project Manager: Molly Meyers
 4100 Atlas Court, Bakersfield, CA 93308
 Phone No. 661-327-4911

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

Field Point Name	Matrix	Depth	Date (yy/mm/dd)	SAMPLE ID		# of Containers	Sample Time	ANALYSES REQUIRED												Notes / Comments
				Company	Date / Time			Relinquished By	Date / Time	Company	Date / Time	Relinquished By	Date / Time	Company	Date / Time	Relinquished By	Date / Time			
MW-1	W-S-A	1	131106	Gettler Ryan	11-6-13 / 1400	14	0720	DISOLVED CHROMIUM / CHROMIUM	ETHANOL BY EPA 8260B / EDB / EDC	GRP	SPECIFIC CONDUCTANCE / D.O.	NITRATE / SULFATE / HEXACHROMIUM	DISOLVED	TOTAL MANGANESE / VANADIUM / CHROMIUM	MANGANESE / VANADIUM / CHROMIUM	FERROUS IRON	TOC			
MW-1AR	W-S-A	2				14	0815													
MW-1BR	W-S-A	3				14	0915													
MW-3	W-S-A	4				9	1045													
MW-4	W-S-A	5				9	0940													
MW-5	W-S-A	6				11	0715													
MW-6	W-S-A	7				11	0810													
MW-7	W-S-A	8				14	1255													
MW-8	W-S-A	9				14	1155													
MW-9	W-S-A	10				14	1115													
MW-10	W-S-A	11				14	1235													
MW-11	W-S-A	12				14	1010													

Relinquished By: *[Signature]* Company: GR OFFICE Date / Time: 11-6-13 / 1400
 Relinquished By: *[Signature]* Company: GR INC Date / Time: 11-06-13 1510

Received By: *[Signature]* Company: GETTLER-RYAN OFFICE Date / Time: 11-06-13 1400
 Received By: *[Signature]* Company: GR INC Date / Time: 11-06-13 1510

REL. 11-6-13 22:45
 REL. SHAW BOYER 11-6-13 1915 REC. 1510
 REL. KAR. 11-6-13 2245



Chain of Custody and Cooler Receipt Form for 1324272 Page 2 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page ___ Of ___

Submission #: 13-24272

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>	
--	--	---	--	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received YES NO Emissivity: 0.95 Container: PT PE Thermometer ID: 207 Date/Time 11/6/13 2245
 Temperature: (A) 1.3 °C / (C) 1.4 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS										
	1	2	3	4	5	6	7	8	9	10	11
QT GENERAL MINERAL/ GENERAL				B			B				B
PT PE UNPRESERVED							C				C
QT INORGANIC CHEMICAL METALS											
PT INORGANIC CHEMICAL METALS									DE		DE
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											F
PT TOX:											
PT CHEMICAL OXYGEN DEMAND											
PA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL	A 16	A 16	A 16	A 16	A 16	A 16	A 16	A 16	A 16	A 16	A 16
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				C	D		EF		H	GH	
8 OZ. JAR											
32 OZ. JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
FERROUS IRON											I
ENCORE											
SMART KIT											
Summa Canister											

Comments: _____

Sample Number(s) Computerized By: ILC Date/Time: 11/6/13 2245



Chain of Custody and Cooler Receipt Form for 1324272 Page 3 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page Of

Submission #: 13-24272

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals **Ice Chest** **Containers**
 Intact? Yes No Intact? Yes No None Comments: _____

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

COC Received
 YES NO

Emissivity: 0.95 Container: PEPE Thermometer ID: 207 Date/Time 11/6/13 2245
 Temperature: (A) 1.0 °C / (C) 1.1 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B								
PT PE UNPRESERVED	C	C								
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	DE	DE								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	F	F	F							
PT TOX :										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	()
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	GH	GH	GH							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	I	I	I							
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____



Chain of Custody and Cooler Receipt Form for 1324272 Page 4 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page ___ Of ___

Submission #: 13-24272

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
---	--	--	---

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

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

COC Received YES NO

Emissivity: 0.95 Container: PPE Thermometer ID: 207 Date/Time 11/6/13 2245

Temperature: (A) 1.0 °C (C) 1.1 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	10	12	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			B	B	B					
PT PE UNPRESERVED			C	C	C					
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS			DE	DE	DE					
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON				F	F					
PT TOX :										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
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				GH	GH					
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON				I	I					
ENCORE										
SMART KIT										
Summa-Canister										

Comments: _____



Chain of Custody and Cooler Receipt Form for 1324272 Page 5 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 5 of 6

Submission #: 13-24272

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals
 Ice Chest Containers None Comments: _____
In tact? Yes No

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

COC Received
 YES NO

Emissivity: 0.95 Container: 0+PE Thermometer ID: 207 Date/Time 11/6/13 2245
 Temperature: (A) 1.2 °C / (C) 1.3 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL					B	B		B	B	
PT PE UNPRESERVED						C		C	C	
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS						4D	D	DE		
PT CYANIDE						SAS u/1				
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON								F	F	
PT TOX :										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
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				D	C	EF		GH	G	
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON								I	I	
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____



Chain of Custody and Cooler Receipt Form for 1324272 Page 6 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 6 of 6

Submission #: 13-24272

SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

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

COC Received
 YES NO

Emissivity: 0.95 Container: PT PE Thermometer ID: 207 Date/Time 11/6/13 2245
 Temperature: (A) 1.3 °C / (C) 1.4 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	11	12	13	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
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			A 2							
40ml VOA VIAL	A 6	A 6								
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										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____



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2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1324272-01	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-1-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 07:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1324272-02	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-1AR-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 08:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-1AR Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1324272-03	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-1BR-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 09:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-1BR Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1324272-04	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-3-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1324272-05	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-4-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 09:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1324272-06	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-5-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 07:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1324272-07	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-6-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 08:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1324272-08	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-7-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 12:55 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1324272-09	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-8-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 11:55 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1324272-10	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-9-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 11:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-9 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1324272-11	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-10-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 12:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1324272-12	COC Number: --- Project Number: 0843 Sampling Location: --- Sampling Point: MW-11-W-131106 Sampled By: GRD	Receive Date: 11/06/2013 22:45 Sampling Date: 11/06/2013 10:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600102263 Location ID (FieldPoint): MW-11 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1324272-13

COC Number: ---
Project Number: 0843
Sampling Location: ---
Sampling Point: QA-W-131106
Sampled By: GRD

Receive Date: 11/06/2013 22:45
Sampling Date: 11/06/2013 00:00
Sample Depth: ---
Lab Matrix: Water
Sample Type: Blank Water
Delivery Work Order:
Global ID: T0600102263
Location ID (FieldPoint): QA
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-01	Client Sample Name: 0843, MW-1-W-131106, 11/6/2013 7:20:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	230	ug/L	2.5	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	93.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	93.1	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 11:36	EAR	MS-V12	1	BWK0407
2	EPA-8260B	11/11/13	11/11/13 16:00	EAR	MS-V12	5	BWK0407

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-01	Client Sample Name: 0843, MW-1-W-131106, 11/6/2013 7:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	81.0	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 17:25	jjh	GC-V9	1	BWK0565

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-01	Client Sample Name: 0843, MW-1-W-131106, 11/6/2013 7:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	15	mg/L	0.44	EPA-300.0	ND		1
Sulfate	22	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	341	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	1.2	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	5.6	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	167.7	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/13	11/07/13 11:49	LD1	IC2	1	BWK0558
2	EPA-120.1	11/11/13	11/11/13 11:34	RML	MET-1	1	BWK0702
3	SM-3500-FeD	11/07/13	11/07/13 10:59	TDC	KONE-1	1	BWK0524
4	EPA-415.1	11/11/13	11/11/13 22:47	ALW	TOC2	1	BWK0584
5	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
6	ASTM-D1498	11/07/13	11/07/13 09:07	RML	MET-1	1	BWK0598

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-01	Client Sample Name: 0843, MW-1-W-131106, 11/6/2013 7:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	7.3	ug/L	1.0	EPA-200.8	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	26	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	190	ug/L	1.0	EPA-200.8	ND		5
Total Recoverable Vanadium	16	ug/L	3.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/13	11/07/13 00:44	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/06/13	11/11/13 18:20	ARD	PE-OP1	1	BWK0686
3	EPA-200.8	11/06/13	11/11/13 20:36	SRM	PE-EL2	1	BWK0664
4	EPA-6010B	11/11/13	11/12/13 12:02	ARD	PE-OP1	1	BWK0729
5	EPA-200.8	11/12/13	11/12/13 21:56	SRM	PE-EL2	1	BWK0805

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-02	Client Sample Name: 0843, MW-1AR-W-131106, 11/6/2013 8:15:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	0.98	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 11:53	EAR	MS-V12	1	BWK0407

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-02	Client Sample Name: 0843, MW-1AR-W-131106, 11/6/2013 8:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	80.2	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 17:45	jjh	GC-V9	1	BWK0565

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-02	Client Sample Name: 0843, MW-1AR-W-131106, 11/6/2013 8:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	14	mg/L	0.44	EPA-300.0	ND		1
Sulfate	25	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	343	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	1.2	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	6.4	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	70.03	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/13	11/07/13 12:05	LD1	IC2	1	BWK0558
2	EPA-120.1	11/11/13	11/11/13 11:40	RML	MET-1	1	BWK0702
3	SM-3500-FeD	11/07/13	11/07/13 10:59	TDC	KONE-1	1	BWK0524
4	EPA-415.1	11/11/13	11/11/13 21:24	ALW	TOC2	1	BWK0584
5	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
6	ASTM-D1498	11/07/13	11/07/13 09:20	RML	MET-1	1	BWK0598

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-02	Client Sample Name: 0843, MW-1AR-W-131106, 11/6/2013 8:15:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	5.2	ug/L	1.0	EPA-200.8	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	39	ug/L	1.0	EPA-200.8	ND		5
Total Recoverable Vanadium	ND	ug/L	3.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/13	11/07/13 00:44	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/06/13	11/11/13 18:28	ARD	PE-OP1	1	BWK0686
3	EPA-200.8	11/06/13	11/11/13 20:40	SRM	PE-EL2	1	BWK0664
4	EPA-6010B	11/11/13	11/12/13 12:04	ARD	PE-OP1	1	BWK0729
5	EPA-200.8	11/12/13	11/12/13 21:59	SRM	PE-EL2	1	BWK0805

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-03	Client Sample Name: 0843, MW-1BR-W-131106, 11/6/2013 9:15:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.3	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.4	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 12:10	EAR	MS-V12	1	BWK0407



Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-03	Client Sample Name: 0843, MW-1BR-W-131106, 11/6/2013 9:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	76.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 18:05	jjh	GC-V9	1	BWK0565



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-03	Client Sample Name: 0843, MW-1BR-W-131106, 11/6/2013 9:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	26	mg/L	0.44	EPA-300.0	ND		1
Sulfate	26	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	365	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	1.1	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	6.1	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	94.91	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/13	11/07/13 12:21	LD1	IC2	1	BWK0558
2	EPA-120.1	11/11/13	11/11/13 11:47	RML	MET-1	1	BWK0702
3	SM-3500-FeD	11/07/13	11/07/13 10:59	TDC	KONE-1	1	BWK0524
4	EPA-415.1	11/11/13	11/11/13 23:01	ALW	TOC2	1	BWK0584
5	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
6	ASTM-D1498	11/07/13	11/07/13 09:26	RML	MET-1	1	BWK0598

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-03	Client Sample Name: 0843, MW-1BR-W-131106, 11/6/2013 9:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	1.7	ug/L	1.0	EPA-200.8	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	16	ug/L	1.0	EPA-200.8	ND		5
Total Recoverable Vanadium	ND	ug/L	3.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/13	11/07/13 00:44	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/06/13	11/11/13 18:30	ARD	PE-OP1	1	BWK0686
3	EPA-200.8	11/06/13	11/11/13 20:46	SRM	PE-EL2	1	BWK0664
4	EPA-6010B	11/11/13	11/12/13 12:05	ARD	PE-OP1	1	BWK0729
5	EPA-200.8	11/12/13	11/12/13 22:03	SRM	PE-EL2	1	BWK0805

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-04	Client Sample Name: 0843, MW-3-W-131106, 11/6/2013 10:45:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 12:28	EAR	MS-V12	1	BWK0407



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-04	Client Sample Name: 0843, MW-3-W-131106, 11/6/2013 10:45:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	72.0	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 20:07	jjh	GC-V9	1	BWK0565

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-04	Client Sample Name: 0843, MW-3-W-131106, 11/6/2013 10:45:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	752	umhos/cm	1.00	EPA-120.1			1
Dissolved Oxygen	6.2	mg O/L	0.50	SM-4500OG		S05	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	111.5	mV	-1000	ASTM-D1498			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	11/11/13	11/11/13 11:53	RML	MET-1	1	BWK0702
2	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
3	ASTM-D1498	11/07/13	11/07/13 09:30	RML	MET-1	1	BWK0598

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-05	Client Sample Name: 0843, MW-4-W-131106, 11/6/2013 9:40:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	0.61	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 12:46	EAR	MS-V12	1	BWK0407

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-05	Client Sample Name: 0843, MW-4-W-131106, 11/6/2013 9:40:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	73.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 20:27	jjh	GC-V9	1	BWK0565

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-05	Client Sample Name: 0843, MW-4-W-131106, 11/6/2013 9:40:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	910	umhos/cm	1.00	EPA-120.1			1
Dissolved Oxygen	4.2	mg O/L	0.50	SM-4500OG		S05	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	112.3	mV	-1000	ASTM-D1498			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	11/11/13	11/11/13 12:00	RML	MET-1	1	BWK0702
2	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
3	ASTM-D1498	11/07/13	11/07/13 09:34	RML	MET-1	1	BWK0598

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-06	Client Sample Name: 0843, MW-5-W-131106, 11/6/2013 7:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	590	ug/L	5.0	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	106	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.5	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 13:03	EAR	MS-V12	1	BWK0407
2	EPA-8260B	11/11/13	11/11/13 16:17	EAR	MS-V12	10	BWK0407

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-06	Client Sample Name: 0843, MW-5-W-131106, 11/6/2013 7:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	74.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 20:47	jjh	GC-V9	1	BWK0565



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-06	Client Sample Name: 0843, MW-5-W-131106, 11/6/2013 7:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	558	umhos/cm	1.00	EPA-120.1			1
Dissolved Oxygen	5.2	mg O/L	0.50	SM-4500OG		S05	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	120.4	mV	-1000	ASTM-D1498			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	11/11/13	11/11/13 12:08	RML	MET-1	1	BWK0702
2	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
3	ASTM-D1498	11/07/13	11/07/13 09:38	RML	MET-1	1	BWK0598

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-06	Client Sample Name: 0843, MW-5-W-131106, 11/6/2013 7:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Total Chromium	39	ug/L	10	EPA-6010B	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/13	11/07/13 00:44	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/11/13	11/12/13 12:48	ARD	PE-OP1	1	BWK0686
3	EPA-6010B	11/11/13	11/12/13 12:07	ARD	PE-OP1	1	BWK0729



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-07	Client Sample Name: 0843, MW-6-W-131106, 11/6/2013 8:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	120	ug/L	1.0	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.4	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 13:20	EAR	MS-V12	1	BWK0407
2	EPA-8260B	11/11/13	11/11/13 16:35	EAR	MS-V12	2	BWK0407



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-07	Client Sample Name: 0843, MW-6-W-131106, 11/6/2013 8:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	73.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 21:07	jjh	GC-V9	1	BWK0565

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-07	Client Sample Name: 0843, MW-6-W-131106, 11/6/2013 8:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	501	umhos/cm	1.00	EPA-120.1			1
Dissolved Oxygen	5.5	mg O/L	0.50	SM-4500OG		S05	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	125.8	mV	-1000	ASTM-D1498			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	11/11/13	11/11/13 12:14	RML	MET-1	1	BWK0702
2	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
3	ASTM-D1498	11/07/13	11/07/13 09:42	RML	MET-1	1	BWK0598

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-07	Client Sample Name: 0843, MW-6-W-131106, 11/6/2013 8:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Total Chromium	ND	ug/L	10	EPA-6010B	ND		3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	11/07/13	11/07/13 00:50	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/11/13	11/12/13 12:50	ARD	PE-OP1	1	BWK0686
3	EPA-6010B	11/11/13	11/12/13 12:09	ARD	PE-OP1	1	BWK0729



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-08	Client Sample Name: 0843, MW-7-W-131106, 11/6/2013 12:55:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	1400	ug/L	25	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	1.5	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	210	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	93.8	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 13:38	EAR	MS-V12	1	BWK0407
2	EPA-8260B	11/11/13	11/11/13 16:52	EAR	MS-V12	50	BWK0407



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-08	Client Sample Name: 0843, MW-7-W-131106, 11/6/2013 12:55:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	75.0	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 21:28	jjh	GC-V9	1	BWK0565

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-08	Client Sample Name: 0843, MW-7-W-131106, 11/6/2013 12:55:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	3.1	mg/L	0.44	EPA-300.0	ND		1
Sulfate	36	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	640	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	5.6	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	4.8	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	69.66	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/13	11/07/13 12:36	LD1	IC2	1	BWK0558
2	EPA-120.1	11/11/13	11/11/13 12:42	RML	MET-1	1	BWK0703
3	SM-3500-FeD	11/07/13	11/07/13 10:59	TDC	KONE-1	1	BWK0524
4	EPA-415.1	11/11/13	11/11/13 23:15	ALW	TOC2	1	BWK0584
5	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
6	ASTM-D1498	11/07/13	11/07/13 09:46	RML	MET-1	1	BWK0598

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-08	Client Sample Name: 0843, MW-7-W-131106, 11/6/2013 12:55:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	320	ug/L	1.0	EPA-200.8	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	330	ug/L	1.0	EPA-200.8	ND		5
Total Recoverable Vanadium	3.1	ug/L	3.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/13	11/07/13 00:50	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/06/13	11/11/13 18:35	ARD	PE-OP1	1	BWK0686
3	EPA-200.8	11/06/13	11/11/13 20:49	SRM	PE-EL2	1	BWK0664
4	EPA-6010B	11/11/13	11/12/13 12:11	ARD	PE-OP1	1	BWK0729
5	EPA-200.8	11/12/13	11/12/13 22:06	SRM	PE-EL2	1	BWK0805

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-09	Client Sample Name: 0843, MW-8-W-131106, 11/6/2013 11:55:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	98	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 17:44	EAR	MS-V12	1	BWK0407

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-09	Client Sample Name: 0843, MW-8-W-131106, 11/6/2013 11:55:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	73.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 21:48	jjh	GC-V9	1	BWK0565



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-09	Client Sample Name: 0843, MW-8-W-131106, 11/6/2013 11:55:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	5.8	mg/L	0.44	EPA-300.0	ND		1
Sulfate	39	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	536	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	5.8	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	6.4	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	128.2	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/13	11/07/13 12:52	LD1	IC2	1	BWK0558
2	EPA-120.1	11/11/13	11/11/13 12:57	RML	MET-1	1	BWK0703
3	SM-3500-FeD	11/07/13	11/07/13 10:59	TDC	KONE-1	1	BWK0524
4	EPA-415.1	11/11/13	11/11/13 23:30	ALW	TOC2	1	BWK0584
5	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
6	ASTM-D1498	11/07/13	11/07/13 09:52	RML	MET-1	1	BWK0598

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-09	Client Sample Name: 0843, MW-8-W-131106, 11/6/2013 11:55:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	170	ug/L	1.0	EPA-200.8	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	530	ug/L	1.0	EPA-200.8	ND		5
Total Recoverable Vanadium	6.3	ug/L	3.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/13	11/07/13 00:50	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/06/13	11/12/13 12:52	ARD	PE-OP1	1	BWK0686
3	EPA-200.8	11/06/13	11/11/13 19:59	SRM	PE-EL2	1	BWK0664
4	EPA-6010B	11/11/13	11/12/13 12:12	ARD	PE-OP1	1	BWK0729
5	EPA-200.8	11/12/13	11/12/13 22:09	SRM	PE-EL2	1	BWK0805

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-10	Client Sample Name: 0843, MW-9-W-131106, 11/6/2013 11:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	320	ug/L	2.5	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	94.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 14:12	EAR	MS-V12	1	BWK0407
2	EPA-8260B	11/11/13	11/11/13 17:10	EAR	MS-V12	5	BWK0407



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-10	Client Sample Name: 0843, MW-9-W-131106, 11/6/2013 11:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	75.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 22:08	jjh	GC-V9	1	BWK0565



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-10	Client Sample Name: 0843, MW-9-W-131106, 11/6/2013 11:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	12	mg/L	0.44	EPA-300.0	ND		1
Sulfate	37	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	554	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	2.1	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	6.6	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	130.3	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/13	11/07/13 13:07	LD1	IC2	1	BWK0558
2	EPA-120.1	11/11/13	11/11/13 13:03	RML	MET-1	1	BWK0703
3	SM-3500-FeD	11/07/13	11/07/13 10:59	TDC	KONE-1	1	BWK0524
4	EPA-415.1	11/11/13	11/11/13 23:44	ALW	TOC2	1	BWK0584
5	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0656
6	ASTM-D1498	11/07/13	11/07/13 09:56	RML	MET-1	1	BWK0599

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-10	Client Sample Name: 0843, MW-9-W-131106, 11/6/2013 11:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	170	ug/L	1.0	EPA-200.8	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	100	ug/L	1.0	EPA-200.8	ND		5
Total Recoverable Vanadium	ND	ug/L	3.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/13	11/07/13 00:50	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/06/13	11/12/13 12:53	ARD	PE-OP1	1	BWK0686
3	EPA-200.8	11/06/13	11/11/13 20:52	SRM	PE-EL2	1	BWK0664
4	EPA-6010B	11/12/13	11/13/13 10:17	ARD	PE-OP1	1	BWK0807
5	EPA-200.8	11/12/13	11/12/13 22:12	SRM	PE-EL2	1	BWK0805

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-11	Client Sample Name: 0843, MW-10-W-131106, 11/6/2013 12:35:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 14:30	EAR	MS-V12	1	BWK0688



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2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-11	Client Sample Name: 0843, MW-10-W-131106, 11/6/2013 12:35:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	73.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 22:28	jjh	GC-V9	1	BWK0565



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-11	Client Sample Name: 0843, MW-10-W-131106, 11/6/2013 12:35:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	14	mg/L	0.44	EPA-300.0	ND		1
Sulfate	23	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	342	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	1.3	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	4.7	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	137.2	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/13	11/07/13 13:23	LD1	IC2	1	BWK0558
2	EPA-120.1	11/11/13	11/11/13 13:10	RML	MET-1	1	BWK0703
3	SM-3500-FeD	11/07/13	11/07/13 10:59	TDC	KONE-1	1	BWK0524
4	EPA-415.1	11/11/13	11/11/13 23:58	ALW	TOC2	1	BWK0584
5	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0657
6	ASTM-D1498	11/07/13	11/07/13 10:09	RML	MET-1	1	BWK0599



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-11	Client Sample Name: 0843, MW-10-W-131106, 11/6/2013 12:35:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	4.7	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	2.7	ug/L	1.0	EPA-200.8	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	12	ug/L	1.0	EPA-200.8	ND		5
Total Recoverable Vanadium	ND	ug/L	3.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/13	11/07/13 00:50	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/06/13	11/12/13 12:55	ARD	PE-OP1	1	BWK0686
3	EPA-200.8	11/06/13	11/11/13 20:56	SRM	PE-EL2	1	BWK0664
4	EPA-6010B	11/12/13	11/13/13 10:19	ARD	PE-OP1	1	BWK0807
5	EPA-200.8	11/12/13	11/12/13 22:15	SRM	PE-EL2	1	BWK0805

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-12	Client Sample Name: 0843, MW-11-W-131106, 11/6/2013 10:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	380	ug/L	2.5	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	95.3	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	95.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.2	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 14:47	EAR	MS-V12	1	BWK0688
2	EPA-8260B	11/11/13	11/11/13 17:27	EAR	MS-V12	5	BWK0688



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Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-12	Client Sample Name: 0843, MW-11-W-131106, 11/6/2013 10:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	72.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 22:49	jjh	GC-V9	1	BWK0565

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1324272-12	Client Sample Name: 0843, MW-11-W-131106, 11/6/2013 10:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	6.0	mg/L	0.44	EPA-300.0	ND		1
Sulfate	28	mg/L	1.0	EPA-300.0	ND		1
Electrical Conductivity @ 25 C	670	umhos/cm	1.00	EPA-120.1			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	2.4	mg/L	0.30	EPA-415.1	ND		4
Dissolved Oxygen	4.4	mg O/L	0.50	SM-4500OG		S05	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	145.0	mV	-1000	ASTM-D1498			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	11/06/13	11/07/13 13:39	LD1	IC2	1	BWK0558
2	EPA-120.1	11/11/13	11/11/13 13:16	RML	MET-1	1	BWK0703
3	SM-3500-FeD	11/07/13	11/07/13 11:04	TDC	KONE-1	1	BWK0524
4	EPA-415.1	11/11/13	11/12/13 00:13	ALW	TOC2	1	BWK0584
5	SM-4500OG	11/07/13	11/07/13 07:40	HPR	YSI-57	1	BWK0657
6	ASTM-D1498	11/07/13	11/07/13 10:13	RML	MET-1	1	BWK0599

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1324272-12	Client Sample Name: 0843, MW-11-W-131106, 11/6/2013 10:10:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	2.0	EPA-7196	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	120	ug/L	1.0	EPA-200.8	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	ND	ug/L	10	EPA-6010B	ND		4
Total Recoverable Manganese	100	ug/L	1.0	EPA-200.8	ND		5
Total Recoverable Vanadium	ND	ug/L	3.0	EPA-200.8	ND		5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	11/07/13	11/07/13 00:44	TDC	KONE-1	1	BWK0514
2	EPA-6010B	11/06/13	11/12/13 12:57	ARD	PE-OP1	1	BWK0686
3	EPA-200.8	11/06/13	11/11/13 20:59	SRM	PE-EL2	1	BWK0664
4	EPA-6010B	11/12/13	11/13/13 10:21	ARD	PE-OP1	1	BWK0807
5	EPA-200.8	11/12/13	11/12/13 22:19	SRM	PE-EL2	1	BWK0805

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1324272-13	Client Sample Name: 0843, QA-W-131106, 11/6/2013 12:00:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	11/11/13	11/11/13 11:18	EAR	MS-V12	1	BWK0688

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1324272-13	Client Sample Name: 0843, QA-W-131106, 11/6/2013 12:00:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	72.1	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	11/06/13	11/08/13 23:09	jjh	GC-V9	1	BWK0565



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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BWK0407

Benzene	BWK0407-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BWK0407-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BWK0407-BLK1	ND	ug/L	0.50		
Ethylbenzene	BWK0407-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BWK0407-BLK1	ND	ug/L	0.50		
Toluene	BWK0407-BLK1	ND	ug/L	0.50		
Total Xylenes	BWK0407-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BWK0407-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BWK0407-BLK1	ND	ug/L	10		
Diisopropyl ether	BWK0407-BLK1	ND	ug/L	0.50		
Ethanol	BWK0407-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BWK0407-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BWK0407-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BWK0407-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BWK0407-BLK1	100	%	80 - 120 (LCL - UCL)		

QC Batch ID: BWK0688

Benzene	BWK0688-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BWK0688-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BWK0688-BLK1	ND	ug/L	0.50		
Ethylbenzene	BWK0688-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BWK0688-BLK1	ND	ug/L	0.50		
Toluene	BWK0688-BLK1	ND	ug/L	0.50		
Total Xylenes	BWK0688-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BWK0688-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BWK0688-BLK1	ND	ug/L	10		
Diisopropyl ether	BWK0688-BLK1	ND	ug/L	0.50		
Ethanol	BWK0688-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BWK0688-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BWK0688-BLK1	98.3	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BWK0688-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BWK0688-BLK1	94.8	%	80 - 120 (LCL - UCL)		

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

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		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BWK0407											
Benzene	BWK0407-BS1	LCS	27.820	25.000	ug/L	111		70 - 130			
Toluene	BWK0407-BS1	LCS	26.610	25.000	ug/L	106		70 - 130			
1,2-Dichloroethane-d4 (Surrogate)	BWK0407-BS1	LCS	10.680	10.000	ug/L	107		75 - 125			
Toluene-d8 (Surrogate)	BWK0407-BS1	LCS	10.080	10.000	ug/L	101		80 - 120			
4-Bromofluorobenzene (Surrogate)	BWK0407-BS1	LCS	10.540	10.000	ug/L	105		80 - 120			
QC Batch ID: BWK0688											
Benzene	BWK0688-BS1	LCS	25.270	25.000	ug/L	101		70 - 130			
Toluene	BWK0688-BS1	LCS	25.160	25.000	ug/L	101		70 - 130			
1,2-Dichloroethane-d4 (Surrogate)	BWK0688-BS1	LCS	9.8500	10.000	ug/L	98.5		75 - 125			
Toluene-d8 (Surrogate)	BWK0688-BS1	LCS	9.7200	10.000	ug/L	97.2		80 - 120			
4-Bromofluorobenzene (Surrogate)	BWK0688-BS1	LCS	10.330	10.000	ug/L	103		80 - 120			

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Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BWK0407		Used client sample: N								
Benzene	MS	1323260-51	ND	27.700	25.000	ug/L		111		70 - 130
	MSD	1323260-51	ND	28.800	25.000	ug/L	3.9	115	20	70 - 130
Toluene	MS	1323260-51	ND	24.730	25.000	ug/L		98.9		70 - 130
	MSD	1323260-51	ND	24.850	25.000	ug/L	0.5	99.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1323260-51	ND	10.530	10.000	ug/L		105		75 - 125
	MSD	1323260-51	ND	10.800	10.000	ug/L	2.5	108		75 - 125
Toluene-d8 (Surrogate)	MS	1323260-51	ND	9.7000	10.000	ug/L		97.0		80 - 120
	MSD	1323260-51	ND	9.8800	10.000	ug/L	1.8	98.8		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1323260-51	ND	10.140	10.000	ug/L		101		80 - 120
	MSD	1323260-51	ND	10.750	10.000	ug/L	5.8	108		80 - 120
QC Batch ID: BWK0688		Used client sample: N								
Benzene	MS	1323260-59	ND	30.250	25.000	ug/L		121		70 - 130
	MSD	1323260-59	ND	26.940	25.000	ug/L	11.6	108	20	70 - 130
Toluene	MS	1323260-59	ND	27.020	25.000	ug/L		108		70 - 130
	MSD	1323260-59	ND	26.780	25.000	ug/L	0.9	107	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1323260-59	ND	10.720	10.000	ug/L		107		75 - 125
	MSD	1323260-59	ND	9.8300	10.000	ug/L	8.7	98.3		75 - 125
Toluene-d8 (Surrogate)	MS	1323260-59	ND	9.9800	10.000	ug/L		99.8		80 - 120
	MSD	1323260-59	ND	9.8100	10.000	ug/L	1.7	98.1		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1323260-59	ND	10.310	10.000	ug/L		103		80 - 120
	MSD	1323260-59	ND	10.100	10.000	ug/L	2.1	101		80 - 120

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 11/21/2013 8:38
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWK0565						
Gasoline Range Organics (C6 - C12)	BWK0565-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BWK0565-BLK1	83.9	%	70 - 130 (LCL - UCL)		



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BWK0565										
Gasoline Range Organics (C6 - C12)	BWK0565-BS1	LCS	1119.6	1000.0	ug/L	112		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BWK0565-BS1	LCS	34.616	40.000	ug/L	86.5		70 - 130		



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BWK0565		Used client sample: N								
Gasoline Range Organics (C6 - C12)	MS	1324150-03	ND	947.04	1000.0	ug/L		94.7		70 - 130
	MSD	1324150-03	ND	887.73	1000.0	ug/L	6.5	88.8	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1324150-03	ND	34.193	40.000	ug/L		85.5		70 - 130
	MSD	1324150-03	ND	34.586	40.000	ug/L	1.1	86.5		70 - 130



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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWK0524						
Iron (II) Species	BWK0524-BLK1	ND	ug/L	100		
QC Batch ID: BWK0558						
Nitrate as NO3	BWK0558-BLK1	ND	mg/L	0.44		
Sulfate	BWK0558-BLK1	ND	mg/L	1.0		
QC Batch ID: BWK0584						
Non-Volatile Organic Carbon	BWK0584-BLK1	ND	mg/L	0.30		



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BWK0524										
Iron (II) Species	BWK0524-BS1	LCS	2656.2	2500.0	ug/L	106		90 - 110		
QC Batch ID: BWK0558										
Nitrate as NO3	BWK0558-BS1	LCS	21.922	22.134	mg/L	99.0		90 - 110		
Sulfate	BWK0558-BS1	LCS	98.275	100.00	mg/L	98.3		90 - 110		
QC Batch ID: BWK0584										
Non-Volatile Organic Carbon	BWK0584-BS1	LCS	5.2710	5.0000	mg/L	105		85 - 115		
QC Batch ID: BWK0702										
Electrical Conductivity @ 25 C	BWK0702-BS1	LCS	306.30	303.00	umhos/cm	101		90 - 110		
QC Batch ID: BWK0703										
Electrical Conductivity @ 25 C	BWK0703-BS1	LCS	314.60	303.00	umhos/cm	104		90 - 110		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC batches BWK0524, BWK0558, BWK0584, BWK0598, BWK0599, BWK0656, BWK0657, BWK0702, and BWK0703.

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Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWK0514						
Hexavalent Chromium	BWK0514-BLK1	ND	ug/L	2.0		
QC Batch ID: BWK0664						
Dissolved Manganese	BWK0664-BLK1	ND	ug/L	1.0		
Dissolved Vanadium	BWK0664-BLK1	ND	ug/L	3.0		
QC Batch ID: BWK0686						
Dissolved Chromium	BWK0686-BLK1	ND	ug/L	10		
QC Batch ID: BWK0729						
Total Chromium	BWK0729-BLK1	ND	ug/L	10		
QC Batch ID: BWK0805						
Total Recoverable Manganese	BWK0805-BLK1	ND	ug/L	1.0		
Total Recoverable Vanadium	BWK0805-BLK1	ND	ug/L	3.0		
QC Batch ID: BWK0807						
Total Chromium	BWK0807-BLK1	ND	ug/L	10		

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Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BWK0514										
Hexavalent Chromium	BWK0514-BS1	LCS	47.329	50.000	ug/L	94.7		85 - 115		
QC Batch ID: BWK0664										
Dissolved Manganese	BWK0664-BS1	LCS	107.30	100.00	ug/L	107		85 - 115		
Dissolved Vanadium	BWK0664-BS1	LCS	41.882	40.000	ug/L	105		85 - 115		
QC Batch ID: BWK0686										
Dissolved Chromium	BWK0686-BS1	LCS	210.65	200.00	ug/L	105		85 - 115		
QC Batch ID: BWK0729										
Total Chromium	BWK0729-BS1	LCS	206.84	200.00	ug/L	103		85 - 115		
QC Batch ID: BWK0805										
Total Recoverable Manganese	BWK0805-BS1	LCS	99.581	100.00	ug/L	99.6		85 - 115		
Total Recoverable Vanadium	BWK0805-BS1	LCS	38.245	40.000	ug/L	95.6		85 - 115		
QC Batch ID: BWK0807										
Total Chromium	BWK0807-BS1	LCS	198.03	200.00	ug/L	99.0		85 - 115		

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Project Number: 351849
Project Manager: Kathy Brandt

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Qualls. Includes QC batches BWK0514, BWK0664, BWK0686, BWK0729, BWK0805, and BWK0807.

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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.
- S05 The sample holding time was exceeded.