Roya C. Kambin
Project Manager
Marketing Business Unit

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

March 1, 2012

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

RE: First Quarter 2012 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) 790-6270.

Sincerely,

Roya Kambin
Union Oil of California – Project Manager

Attachment
First Quarter 2012 Monitoring Report

ARCADIS U.S., Inc.
2000 Powell Street
7th Floor
Emeryville
California 94608
Tel 510.652.4500
Fax 510.652.4906
www.arcadis-us.com

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

Subject:
First Quarter 2012 Monitoring Report Submittal

ENVIRONMENT

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), ARCADIS is submitting the enclosed Quarterly Groundwater Monitoring Report for the following facility:

Facility No.	**Case No.**	**Location**
0843	RO0000450	1629 Webster Street Alameda, California

If you have any questions, please contact Katherine Brandt at 510.596.9675.
Sincerely,

ARCADIS

David Lay
Professional Geologist

Katherine Brandt
Certified Project Manager

Copies:
Ms. Cherie McCaulou, CRWQCB – San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, California 94612 (CD)
Sam and Michelle Koka, 802 Pacific Avenue, Alameda CA 94501

Date:
March 1, 2012

Contact:
Katherine Brandt

Phone:
510.596.9675

Email:
katherine.brandt@arcadis-us.com

Our ref:
B0047584.2012

UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
FIRST QUARTER 2012
March 15, 2012

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 (First Quarter – 2012) :

1. TRC Solutions (TRC) conducted groundwater monitoring and sampling on February 2, 2012. 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).

   All 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) and 1,2-dichloroethane (1,2-DCE or EDC) by EPA Method 8260B; as well as field parameters electrical conductivity (EC), dissolved oxygen (DO), and oxidation reduction potential (ORP).

   Additionally, the samples collected from groundwater monitoring wells MW-1, MW-1AR, MW-1BR, MW-7, MW-8, MW-9, MW-10, and MW-11 were analyzed for nitrate as NO_3, sulfate, ferrous 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 only additionally analyzed for chromium (hexavalent, dissolved, and total).

   The site location map, the site plan, and the groundwater contour map are presented on **Figures 1** through **3**. Concentration maps for TPH-g, benzene, and MTBE are on **Figures 4** through **6**. 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**.

   The adjacent Shell Station No. 13-5032 (Shell) located at 1601 Webster Street is on a semi-annual sampling schedule and therefore was sampled this quarter. Concentration data for TPH-g, benzene, and MTBE related to monitoring wells associated with the Shell from this quarter sampling are included on **Figures 4** through **6**.

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Second Quarter – 2012):

1. Perform groundwater monitoring and related reporting during second quarter 2012.

Current Phase of Project:	Groundwater Monitoring/Remediation Pending
Site Use:	Vacant Lot
Frequency of Sampling:	Groundwater – Quarterly
Frequency of Monitoring:	Groundwater – Quarterly
Are Separate-Phase Hydrocarbons (SPH) Present On-Site:	No
Cumulative SPH Recovered to Date:	None
SPH Recovered This Quarter:	None
Bulk Soil Removed to Date:	Unknown
Bulk Soil Removed this Quarter:	None
Water Wells or Surface Waters within a 2,000'	Three irrigation wells located 0.1 mile west, northwest, and southeast of the site

UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
FIRST QUARTER 2012
March 15, 2012

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

Radius and Their Respective Directions:

Groundwater Use Designation: Irrigation

Current Remediation Techniques: None

Permits for Discharge (No.): None

Approximate Depth to Groundwater: 6.22 (MW-5) – 8.08 (MW-1AR) feet below top of casing

Approximate Groundwater Elevation: 10.23 (MW-5) – 11.53 (MW-1) feet below top of casing

Groundwater Gradient: 0.005 ft/ft (Magnitude) North-northeast (Direction)

DISCUSSION:

Groundwater conditions during the first quarter 2012 remained generally consistent with previous quarters. The maximum dissolved concentrations of MTBE (6,400 micrograms per liter [µg/L]), TBA (2,800 µg/L), and TAME (5.0 µg/L) were detected in the samples collected from MW-7. TPH-g, benzene, toluene, ethylbenzene, ETBE, DIPE, EDB, EDC, and ethanol were not detected above the laboratory reporting limits for all wells sampled.

Additionally, maximum concentrations of ferrous iron (1,800 milligrams per liter [mg/L]) and non-volatile organic compounds (3.6 mg/L) were detected in the samples collected from MW-7. Maximum concentrations of total chromium (160 µg/L), total recoverable manganese (1,500 µg/L), and total recoverable vanadium (68 µg/L) were detected in the samples collected from MW-9. Maximum concentration of nitrate as NO_3 (29 mg/L) was detected in the sample collected from MW-1BR. Maximum concentrations of sulfate (47 mg/L) and dissolved manganese (730 µg/L) were detected in the sample collected from MW-8. Maximum concentrations of hexavalent chromium (10 µg/L) and total chromium (11 µg/L) were detected in the sample collected from MW-10. Dissolved vanadium was not detected above the laboratory reporting limits for all wells sampled.

Groundwater elevations at the service station vary by approximately one-and-a-half feet, creating a relatively gentle hydraulic gradient of 0.005 foot per foot in the north-northeast direction.

CONCLUSIONS AND RECOMMENDATIONS:

Dissolved hydrocarbon constituent concentrations have remained relatively consistent with previous quarters. ARCADIS recommends continued groundwater monitoring.

UNION OIL OF CALIFORNIA
QUARTERLY MONITORING REPORT
FIRST QUARTER 2012
March 15, 2012

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

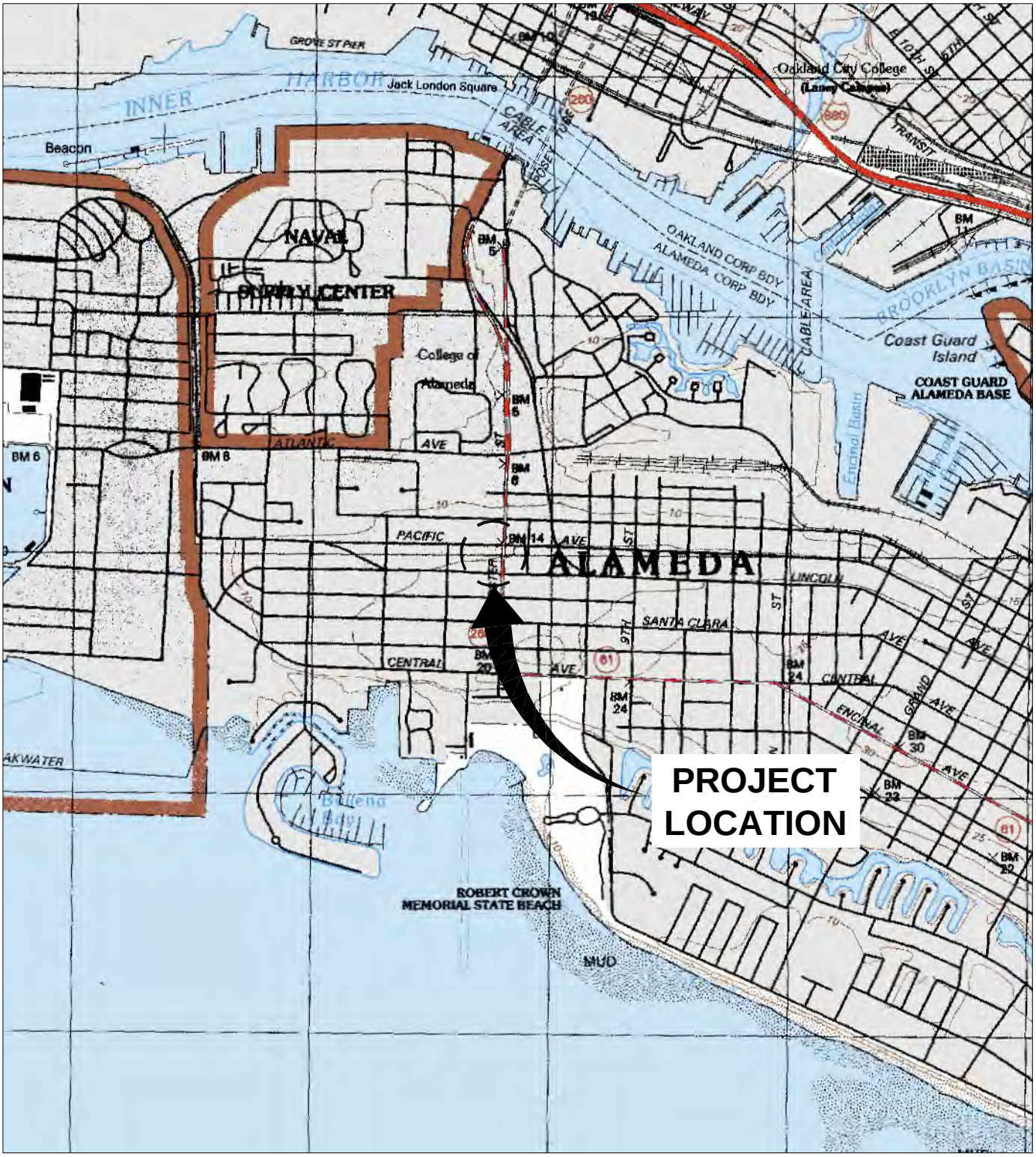
ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Groundwater Contour Map
Figure 4: TPH-g Concentration Map
Figure 5: Benzene Concentration Map
Figure 6: 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

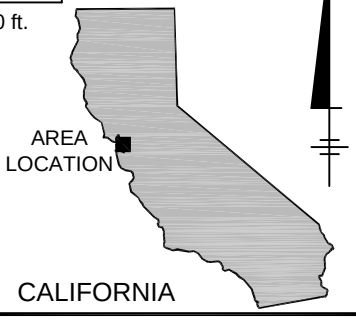
Figures



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

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



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

SITE LOCATION MAP

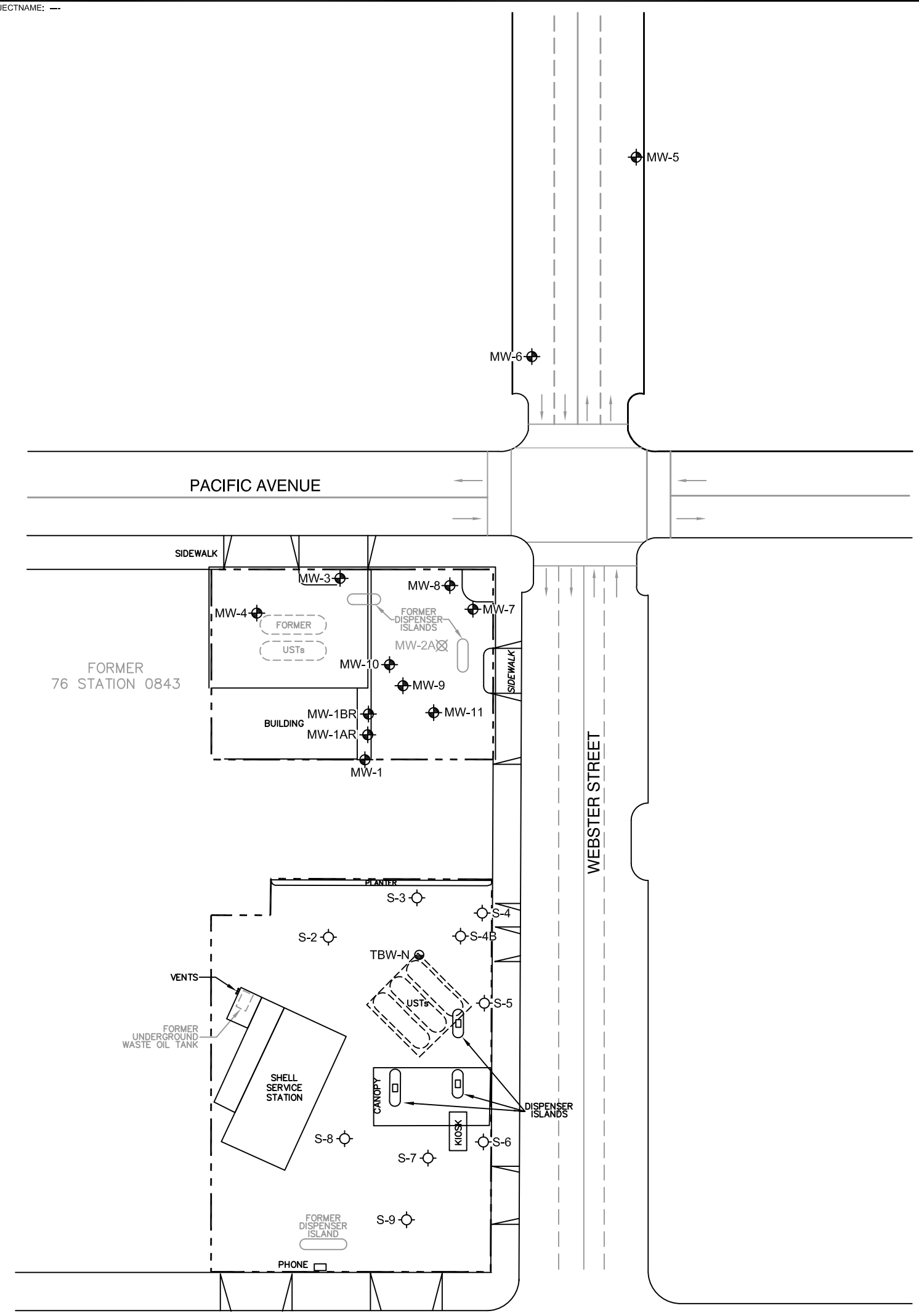
ARCADIS

FIGURE
1

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(On)ON=*;OFF=*REF*
G:\ENVCAD\Petaluma\ACT\B0047584\0000\00011\DWG\475841N01.dwg LAYOUT: 1SAVED: 4/19/2011 11:40 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 4/20/2011 10:57 AM BY: HARRIS, JESSICA
XREFS: IMAGES: PROJECTNAME: ---
Oakland West.jpg

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*:OFF=*REF*
G:\ENVCAD\Petaluma\ACT\B0047584\0000\00001\DWG\47584B01.dwg LAYOUT: 2 SAVED: 4/20/2011 10:45 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 4/20/2011 10:45 AM BY: HARRIS, JESSICA

XREFS: IMAGES: PROJECTNAME: —-
47584X01



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

0 50’ 100’
GRAPHIC SCALE

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.

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

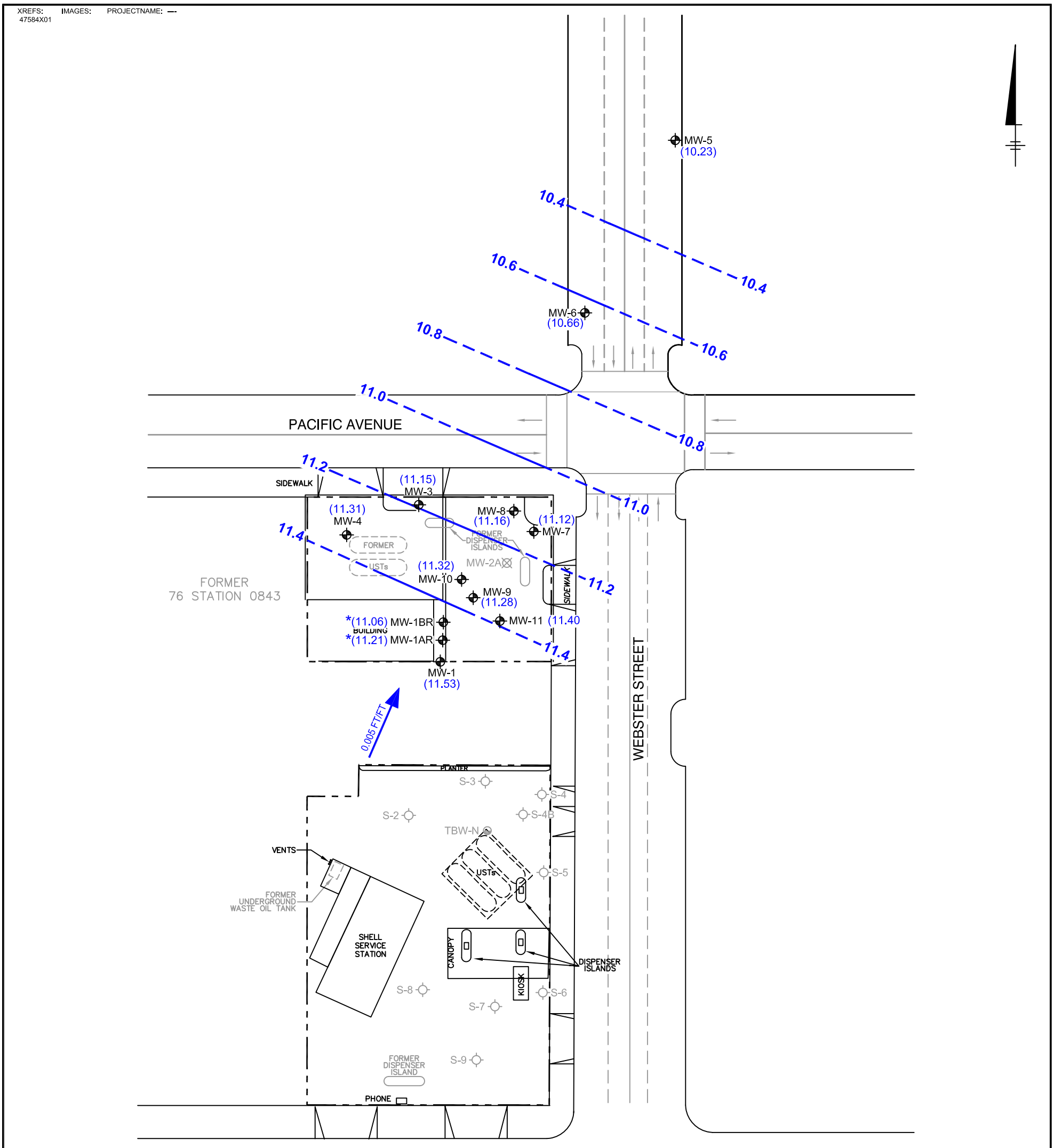
SITE PLAN

ARCADIS

FIGURE
2

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
G:\ENVCAD\Petaluma\ACT\B0047584\2012\00002\1Q12\DWG\47584W01.dwg LAYOUT: 3 SAVED: 2/28/2012 12:26 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/29/2012 2:17 PM BY: HARRIS, JESSICA

XREFS: IMAGES: PROJECTNAME: —
47584X01



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
- (11.53) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 11.4 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- 0.005 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)
- * NOT USED FOR CONTOURING; SHORT SCREEN INTERVAL; DIFFERENT CONSTRUCTION

0 50’ 100’
GRAPHIC SCALE

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.

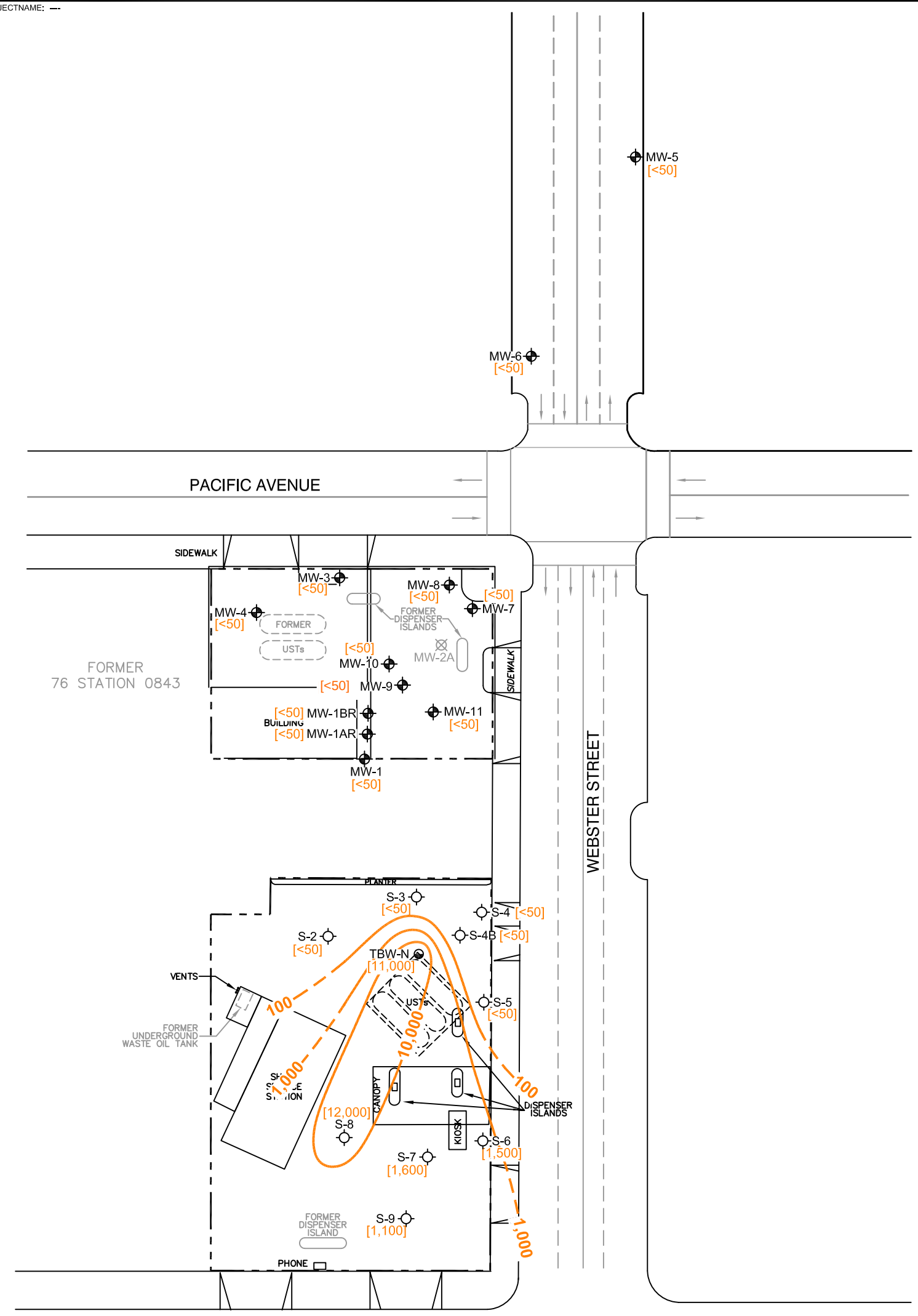
UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP FEBRUARY 2, 2012

ARCADIS

FIGURE
3

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Petaluma\ACT\B0047584\2012\00002\1Q12\DWG\47584C01.dwg LAYOUT: 4 SAVED: 12/9/2011 8:54 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/28/2012 12:12 PM BY: HARRIS, JESSICA
XREFS: IMAGES: PROJECTNAME: —
47584X01



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
- [TPH-g] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (C4-C12) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 TPH-g ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

0 50' 100'
GRAPHIC SCALE

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.
3. SHELL DATA COLLECTED FIRST QUARTER 2012.

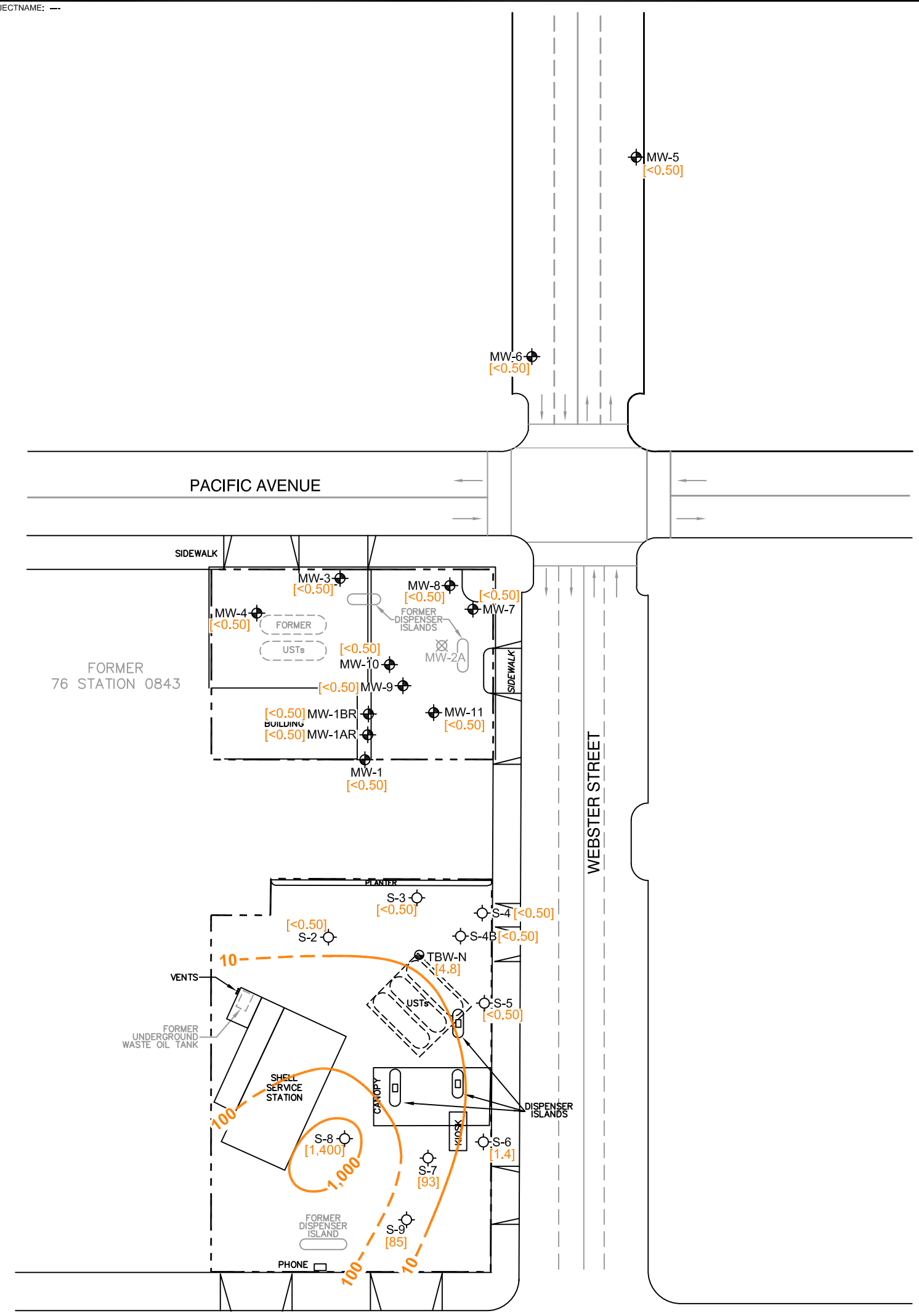
UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

TPH-g CONCENTRATION MAP FEBRUARY 2, 2012

ARCADIS

FIGURE
4

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Petaluma\ACT\B0047584\2012\00002\1Q12\DWG\47584C02.dwg LAYOUT: 5 SAVED: 2/28/2012 12:17 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/28/2012 12:18 PM BY: HARRIS, JESSICA
XREFS: IMAGES: PROJECTNAME: —-
47584X01



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)
- 100 BENZENE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

0 50’ 100’
GRAPHIC SCALE

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.
3. SHELL DATA COLLECTED FIRST QUARTER 2012.

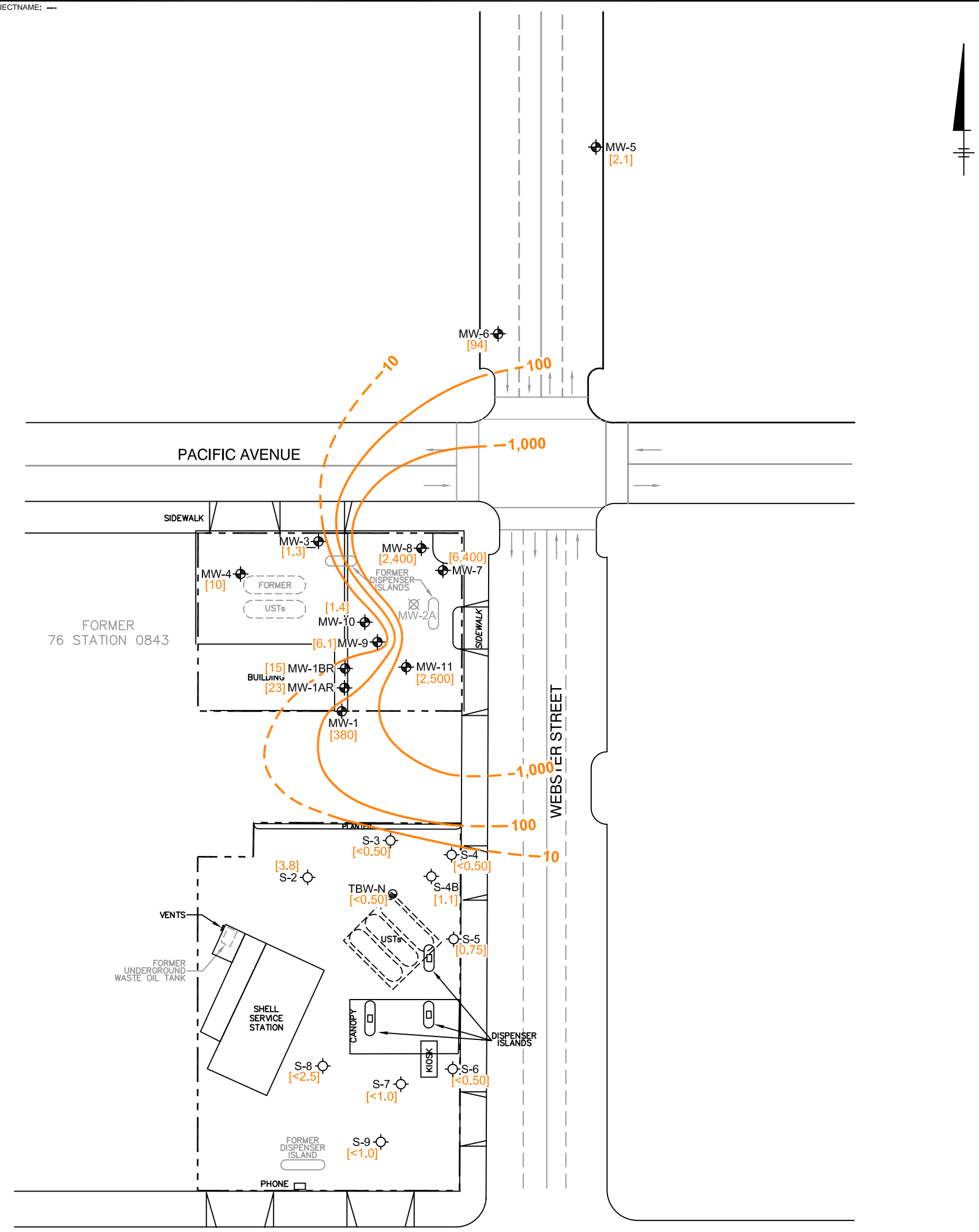
UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

BENZENE CONCENTRATION MAP FEBRUARY 2, 2012

ARCADIS

FIGURE
5

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Petaluma\ACT\B0047584\2012\00002\1Q12\DWG\47584C03.dwg LAYOUT: 6 SAVED: 2/28/2012 12:05 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/28/2012 12:20 PM BY: HARRIS, JESSICA
XREFS: IMAGES: PROJECTNAME: —-
47584X01



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
- [MTBE] METHYL TERTIARY BUTYL ETHER CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 MTBE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

0 50’ 100’
GRAPHIC SCALE

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.
3. SHELL DATA COLLECTED FIRST QUARTER 2012.

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

MTBE CONCENTRATION MAP
FEBRUARY 2, 2012

ARCADIS

FIGURE
6

Tables

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

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

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)
AMSL	above 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.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
*	TPPH (C6 through C12)
J	Estimated Value

Table 1a
Current Additional Groundwater Analytical Results
Union Oil of California
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 (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
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-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-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-3	**2/2/2012**	**576**	**6.00**	**301.8**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-4	**2/2/2012**	**980**	**7.7**	**297.7**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-5	**2/2/2012**	**620**	**8.00**	**236.9**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**72**	**--**	**--**	**S05**
MW-6	**2/2/2012**	**535**	**6.40**	**252.9**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**77**	**--**	**--**	**S05**
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-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-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-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-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**

Note

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

Standard Abbreviations

A10	PQL's and MDL's were raised due to matrix interference.
S05	The sampling holding time was exceeded.
--	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
J	Estimated Value

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

Well ID	Date Sampled	TOC Elevation (feet AMSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet AMSL)	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-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-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-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-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-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-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-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-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-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-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-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**

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

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)
AMSL	above 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 (C6 through C12)
J	Estimated Value

Table 2a
Historic Additional Groundwater Analytical Results
Union Oil of California
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 (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
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-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-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-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-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-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-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-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-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-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-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-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**

Table 2a
Historic Additional Groundwater Analytical Results
Union Oil of California
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 (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments

Note

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

Standard Abbreviations

A10	PQL's and MDL's were raised due to matrix interference.
S05	The sampling holding time was exceeded.
--	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
J	Estimated Value

Table 1a
Current Additional Groundwater Analytical Results
Union Oil of California
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 (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
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-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-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-3	**2/2/2012**	**576**	**6.00**	**301.8**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-4	**2/2/2012**	**980**	**7.7**	**297.7**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**S05**
MW-5	**2/2/2012**	**620**	**8.00**	**236.9**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**72**	**--**	**--**	**S05**
MW-6	**2/2/2012**	**535**	**6.40**	**252.9**	**--**	**--**	**--**	**--**	**<2.0**	**<10**	**--**	**--**	**77**	**--**	**--**	**S05**
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-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-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-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-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**

Note

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

Standard Abbreviations

A10	PQL's and MDL's were raised due to matrix interference.
S05	The sampling holding time was exceeded.
--	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
J	Estimated Value

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

Well ID	Date Sampled	TOC Elevation (feet AMSL)	DTW (feet bTOC)	LPH Thickness (feet)	GW Elevation (feet AMSL)	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-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-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-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-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-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-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-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-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-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-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-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**

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

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)
AMSL	above 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 (C6 through C12)
J	Estimated Value

Table 2a
Historic Additional Groundwater Analytical Results
Union Oil of California
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 (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments
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-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-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-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-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-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-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-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-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-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-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-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**

Table 2a
Historic Additional Groundwater Analytical Results
Union Oil of California
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 (mg/l)	Hexavalent Chromium	Dissolved Chromium	Dissolved Manganese	Dissolved Vanadium	Total Chromium	Total Recoverable Manganese	Total Recoverable Vanadium	Comments

Note

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

Standard Abbreviations

A10	PQL's and MDL's were raised due to matrix interference.
S05	The sampling holding time was exceeded.
--	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
J	Estimated Value

ARCADIS

Attachment A

Field Data Sheets and General Procedures

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: February 7, 2012

TO: Katherine Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, California 94608

SITE: Unocal Site 0843
Facility 351849
1629 Webster Street, Alameda CA

RE: Transmittal of Groundwater Monitoring Data

Dear Ms. Brandt,

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on February 2, 2012. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

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

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

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

Fluid Level Measurements (Gauging)

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

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

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

Purging and Groundwater Parameter Measurement

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

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

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

Groundwater Sample Collection

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

GENERAL FIELD PROCEDURES

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

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

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

Sequence of Gauging, Purging and Sampling

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

Decontamination

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

Purge Water Disposal

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

Exceptions

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

FIELD MONITORING DATA SHEET

Technician: A. Vickers Job #/Task #: 189791.0035.1849 Date: 2/2/12

Site # 0343 Project Manager AF Page 1 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-9	✓	0603	24.31	7.47	—	—	0727	2"
MW-11	✓	0606	27.49	7.32	—	—	0802	2"
MW-7	✓	0609	29.12	6.69	—	—	0848	2"
MW-8	✓	0614	29.52	6.97	—	—	0901	2"
MW-5	✓	0624	20.24	6.22	—	—	0940	2"
MW-6	✓	0634	20.10	6.31	—	—	1021	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

FIELD MONITORING DATA SHEET

Technician: Baulin Job #/Task #: 189791.0035.1849 Date: 2-2-12

Site # 0843 Project Manager AF. Page 2 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1	✓	0556	20.08	7.60	—	—	0742	2"
MW-1AR	✓	0603	29.70	8.08	—	—	0820	2"
MW-1BR	✓	0607	34.45	8.07	—	—	0850	2"
MW-10	✓	0612	29.15	7.52	—	—	0934	2"
MW-3	✓	0617	19.87	6.90	—	—	1015	2"
MW-4	✓	0622	17.09	6.83	—	—	1047	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidvers

Site: 0843 Project No.: 184791.0035.1849 Date: 2/2/12

Well No. MW-5 Purge Method: SUB

Depth to Water (feet): 6.22 Depth to Product (feet): —

Total Depth (feet) 20.24 LPH & Water Recovered (gallons): —

Water Column (feet): 14.02 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 9.02 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							3.28	121	
0925			3	593.8	15.9	6.63	2.42	122	
			6	603.4	17.1	6.51	2.10	125	
	0930		9	606.9	17.8	6.47	1.81	126	

Static at Time Sampled	Total Gallons Purged	Sample Time
9.01	9	0940

Comments: Pump depth - 5ft. below DTW

Well No. MW-6 Purge Method: SUB

Depth to Water (feet): 6.31 Depth to Product (feet): —

Total Depth (feet) 20.10 LPH & Water Recovered (gallons): —

Water Column (feet): 13.79 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 9.07 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.76	123	
1003			3	528.1	16.1	6.67	1.27	122	
			6	552.0	17.1	6.64	1.18	123	
	1009		9	563.3	17.9	6.56	1.02	125	

Static at Time Sampled	Total Gallons Purged	Sample Time
7.91	9	1021

Comments: Pump depth - 5ft. below DTW.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vickers

Site: 0843 Project No.: 189791.0035.1849 Date: 2/2/12

Well No. MW-9 Purge Method: Sub

Depth to Water (feet): 7.47 Depth to Product (feet): —

Total Depth (feet) 24.39 LPH & Water Recovered (gallons): —

Water Column (feet): 16.92 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 10.85 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							2.98	204	
0712			3	662.4	16.1	6.48	2.02	199	
			6	664.8	17.8	6.50	1.90	197	
	0117		9	670.3	18.3	6.54	1.75	195	

Static at Time Sampled	Total Gallons Purged	Sample Time
10.01	9	0727

Comments: Pump depth - 5 ft. below DTW

Well No. MW-11 Purge Method: Sub

Depth to Water (feet): 7.32 Depth to Product (feet): —

Total Depth (feet) 27.49 LPH & Water Recovered (gallons): —

Water Column (feet): 20.07 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.43 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.59	187	
0737			4	769.9	17.5	6.50	1.08	186	
			8	769.1	18.5	6.48	1.52	184	
	0744		12	759.2	18.8	6.48	1.60	180	

Static at Time Sampled	Total Gallons Purged	Sample Time
7.41	12	0802

Comments: Pump depth - 5 ft. below DTW

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Waters

Site: 0843 Project No.: 189791.0035.1849 Date: 2/2/12

Well No. MW-7 Purge Method: Sub

Depth to Water (feet): 6.69 Depth to Product (feet): —

Total Depth (feet) 29.12 LPH & Water Recovered (gallons): —

Water Column (feet): 22.43 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.18 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.49	145	
0815			4	663.5	16.2	6.53	1.30	145	
			8	700.5	18.4	6.54	1.48	141	
	0825		12	703.0	19.6	6.56	1.71	130	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.62	12	0848

Comments: Dry at each well volume, recharges quickly.

Well No. MW-8 Purge Method: Sub

Depth to Water (feet): 6.97 Depth to Product (feet): —

Total Depth (feet) 29.52 LPH & Water Recovered (gallons): —

Water Column (feet): 22.55 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.48 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							2.92	99	
0829			4	580.9	18.9	6.62	1.09	95	
			8	604.9	19.3	6.57	0.92	97	
	0838		12	613.3	19.7	6.58	0.77	101	

Static at Time Sampled	Total Gallons Purged	Sample Time
7.43	12	0901

Comments: Dry at 6 gallons, recharges quickly.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Brandon

Site: 0843 Project No.: 189791.0035.1849 Date: 2-2-12

Well No. MW-1 Purge Method: SUB

Depth to Water (feet): 7.60 Depth to Product (feet): —

Total Depth (feet) 20.08 LPH & Water Recovered (gallons): —

Water Column (feet): 12.48 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 10.09 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							4.26	150	
0728			3	52.38	11.7	7.16	4.09	134	
			6	343.6	13.7	8.81	2.09	126	
	0734		9	421.4	15.7	8.32	1.69	147	

Static at Time Sampled	Total Gallons Purged	Sample Time
9.20	9	0742

Comments:

Well No. MW-1AR Purge Method: SUB

Depth to Water (feet): 8.08 Depth to Product (feet): —

Total Depth (feet) 29.70 LPH & Water Recovered (gallons): —

Water Column (feet): 21.62 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 12.40 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							2.01	161	
0803			4	415.7	14.4	6.39	2.10	157	
			8	467.0	16.7	6.34	0.76	154	
	0810		12	468.5	17.5	6.30	0.66	156	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.70	12	0820

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Ramos

Site: 0843 Project No.: 189791.0035.1849 Date: 2-2-12

Well No. MW-1BR Purge Method: Sub

Depth to Water (feet): 8.07 Depth to Product (feet): —

Total Depth (feet) 34.45 LPH & Water Recovered (gallons): —

Water Column (feet): 26.38 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 13.34 1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							0.90	155	
0831			5	452.6	16.0	6.19	0.82	153	
			10	453.2	17.2	6.15	0.66	152	
	0844		15	455.0	17.9	6.16	0.66	152	

Static at Time Sampled	Total Gallons Purged	Sample Time
13.29	15	0850

Comments:

Well No. MW-10 Purge Method: Sub

Depth to Water (feet): 7.52 Depth to Product (feet): —

Total Depth (feet) 29.15 LPH & Water Recovered (gallons): —

Water Column (feet): 21.63 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.84 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							3.78	147	
0917			4	513.3	17.6	6.23	3.16	148	
			8	531.4	18.5	6.15	2.14	151	
	0924		12	539.4	19.1	6.10	1.22	152	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.70	12	0934

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 0843 Project No.: 189791.0035.1849 Date: 2/2/12

Well No. MW-3 Purge Method: Sub

Depth to Water (feet): 6.90 Depth to Product (feet): —

Total Depth (feet) 19.87 LPH & Water Recovered (gallons): —

Water Column (feet): 12.97 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 9.49 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							1.72	150	
1000			3	667.3	17.7	6.26	1.96	150	
			6	685.7	18.2	6.23	1.31	152	
	1005		9	703.1	19.0	6.17	0.71	153	

Static at Time Sampled	Total Gallons Purged	Sample Time
7.49	9	1015

Comments:

Well No. MW-4 Purge Method: HB

Depth to Water (feet): 6.83 Depth to Product (feet): —

Total Depth (feet) 17.09 LPH & Water Recovered (gallons): —

Water Column (feet): 10.26 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 8.88 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge							3.32	129	
1030			2	1009	18.6	6.43	2.67	146	
			4	1005	18.9	6.40	3.36	148	
	1040		6	984.4	19.2	6.42	4.21	148	

Static at Time Sampled	Total Gallons Purged	Sample Time
8.80	6	1047

Comments: Dry at 6 Gal. recovers Quickly

TRC

WELL BOX CONDITION REPORT

SITE NO. 0843

ADDRESS 1629 Webster St. Alameda, CA

DATE 2/2/12

PERFOMED BY: A. Vidovs

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box Is Exposed	Well Box Is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-9	8"	2																		ok
MW-11	8"	2		1																
MW-7	8"	2									X									Wellbox in area where standing water collects
MW-8	8"	2		1																
MW-5	12"	2														X				ok
MW-6	8"	3														X				ok

TRC

WELL BOX CONDITION REPORT

SITE NO. 0843

ADDRESS 1629 Webster St.

DATE 2-2-12

PERFOMED BY: Basilio

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-1	8"	2																		
MW-1AR	8"	2																		
MW-1BR	8"	2																		
MW-1D	12"	2																		
MW-3	8"	2																		
MW-4	8"	3																		

TRC

CHAIN OF CUSTODY FORM

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

COC 1 of 2

Union Oil Site ID: 0943	Union Oil Consultant: Arcadis
Site Global ID: T0600102263	Consultant Contact: Kathy Brandt
Site Address: 1629 Webster St. Alameda, CA	Consultant Phone No.: 510 596 9675
	Sampling Company: TRC
Union Oil PM: Roya Kambin	Sampled By (PRINT): Andrew Vidders
Union Oil PM Phone No.: 925 790 6270	Sampler Signature: [signature]
Charge Code: NWRTB- 0 351949 -0- LAB	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.

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

Special Instructions

ANALYSES REQUIRED

Analysis columns:
1. ~~TPH - Diesel by EPA 8015~~ Ferrous iron by SM3500FE+D
2. ~~TPH - G by GC/MS~~ ORP by ASTM D1498
3. BTEX/MTBE/OXYS by EPA 8260B
4. Ethanol by EPA 8260B, EDB/EDC by 8260B
5. EPA 8260B Full List with OXYS / Total Chromium by 6010
6. TPH-G by 8015B (C6-C12)
7. Specific conductance by 120.1, DO by SM4500-O
8. Chromium VI by 7196, Dissolved Chromium by 6010
9. Sulfate by 300.0, Nitrate by 300.0
10. Dissolved Manganese by 6010B, TOC by 415.1
11. Dissolved Vanadium by 6010

SAMPLE ID

Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	1	2	3	4	5	6	7	8	9	10	11	Notes / Comments
MW-9	W-S-A		120202	0727	12	X	X	X	X	X	X	X	X	X	X	X	
MW-11	W-S-A			0802		X				X			X	X	X	X	
MW-7	W-S-A			0848		X				X			X	X	X	X	
MW-8	W-S-A			0901		X				X			X	X	X	X	
MW-5	W-S-A			0940	11					X			X				
MW-6	W-S-A			1021	11					X			X				
MW-1	W-S-A			0742	12	X				X			X	X	X	X	
MW-1AR	W-S-A			0820		X				X			X	X	X	X	
MW-13R	W-S-A			0850		X				X			X	X	X	X	
MW-10	W-S-A			0934		X				X			X	X	X	X	
MW-3	W-S-A			1015	9												
MW-4	W-S-A			1047	9												

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	TRC	2/2/12 1310						

Received By	Company	Date / Time:	Received By	Company	Date / Time :	Received By	Company	Date / Time:
[signature]	BC Labs	2-2-12 1430						

CHAIN OF CUSTODY FORM

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

COC 2 of 2

Union Oil Site ID: 0943	Union Oil Consultant: Arcadis
Site Global ID: T0600102263	Consultant Contact: Kathy Brandt
Site Address: 429 Webster St. Alameda, CA	Consultant Phone No.: 510 596 9675
	Sampling Company: TRC
Union Oil PM: Eva Kambich	Sampled By (PRINT): Arthur Valvers
Union Oil PM Phone No.: 925 790 2770	Sampler Signature:
Charge Code: NWRTB- 0 351849 -0- LAB	**BC Laboratories, Inc.**
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	**Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

ANALYSES REQUIRED

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

Special Instructions

SAMPLE ID						TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	TPH Motor Oil by 8015	Total Vanadium by 200.8					Notes / Comments
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers												
MW-9	W-S-A		120202	0727	12						X	X					
MW-11	W-S-A			0802													
MW-7	W-S-A			0849													
MW-6	W-S-A			0941													
MW-1	W-S-A			0742													
MW-1AR	W-S-A			0820													
MW-15R	W-S-A			0850													
MW-10	W-S-A			0934													
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:
	TRC	12/2/12 1310

Received By	Company	Date / Time:
Greg Brown	TRC	12/3/12 0735

Relinquished By	Company	Date / Time :

Received By	Company	Date / Time :

Relinquished By	Company	Date / Time:

Received By	Company	Date / Time:

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID:	0843	**Project No.:**	189791.0035.1849 / 00TA01
Address	1629 Webster Street	**Client:**	Roya Kambin
City:	Alameda	**Contact #:**	925-790-6270
Cross Street:	Pacific Ave	**PM:**	Kathy Brandt Arcadis
		PM Contact #:	510-596-9675

Total number of wells:	12	**Min. Well Diameter (in.):**	2	**# of Techs, # of Hrs:**	2, 6
Depth to Water (ft.):	6	**Max. Well Diameter (in.):**	2	**Travel Time (hrs):**	
		Max. Well Depth (ft):	20		

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

RELATED ACTIVITIES		**Notes**
Drums:	☑	
Other Activities:	☐	
Traffic Control:	☑	City of Alameda

PERMIT INFORMATION:

Non-expiring permit #: EN-09-0013

NOTIFICATIONS:

Sam Koka, owner, SK Auto: 510-865-7631

SITE INFORMATION:

Coordinated event with Shell at 1601 Webster Street (Semi 1/3)

Gauge, purge and sampling order: MW-1, MW-1AR, MW-1BR, MW-9, MW-10, MW-11, MW-7, MW-8, MW-3, MW-4, MW-5 & MW-6

Take post-purge field readings after each casing volume purged.

MW-5 is in the middle of the Wienerschnitzel drive thru driveway. Must have the well done before 7:00am.

MW-3 is in the planter.

TRC SOLUTIONS
TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID:	0843	**Project No.:**	189791.0035.1849 / 00TA01
Address	1629 Webster Street	**Client:**	Roya Kambin
City:	Alameda	**Contact #:**	925-790-6270
Cross Street:	Pacific Ave	**PM:**	Kathy Brandt Arcadis
		PM Contact #:	510-596-9675

LAB INFORMATION:

Global ID: T0600102263

Lab WO: 351849

Lab Used: BC

Lab Notes: Lab Analyses:
TPH-G by 8015B (C6 - C12), BTEX/MTBE/OXYS by 8260B, EDB/EDC by 8260B, Ethanol by 8260B [Containers: 6 voas w/HCl]
Specific Conductance by 120.1, DO by SM4500-O [Container: one 1L poly unpreserved]
ORP by ASTM D1948 [two 1L ambers unpreserved]

Additional analyses for wells MW-1, MW-1AR, MW-1BR, MW-7, MW-8, MW-9, MW-10, MW-11:
Sulfate by 300.0, Nitrate by 300.0, Dissolved Manganese by 200.8, Dissolved Vanadium by 200.8, Dissolved Chromium by 6010, Chromium VI by 7196 [no additional container needed]
Total Manganese by 200.8, Total Chromium by 6010, Total Vanadium by 200.8 [Container: one 1L poly w/HNO3]
Ferrous Iron by 3500FE+D [Container: one 500 mL poly w/HCl]
TOC by 415.1 [Containers: one 500mL amber w/H2SO4]

Additional analyses for wells MW-5 & MW-6:
Chromium VI by 7196, dissolved Chromium by 6010 [Container: one 1Pt poly unpreserved]
Total Chromium by 6010 [Container: one 1Pt poly w/HNO3]

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID.: 0843
Address 1629 Webster Street
City: Alameda
Cross Street Pacific Ave

			Gauging				Sampling				Field Measurements			
Well IDs	Benz.	MTBE	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	**Comments**
MW-4	0	0	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	2" casing
MW-3	0	0	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	2" casing
MW-5	0	1.2	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	2" casing
MW-10	0	1.4	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	
MW-1AR	0	22	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	
MW-1BR	0	34	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	
MW-9	0	44	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	
MW-6	0	86	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	2" casing
MW-1	0	130	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	2" casing
MW-11	0	2100	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	
MW-8	0	2500	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	
MW-7	0	5900	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	D.O, ORP	

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 Con-ductance (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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<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<50	--	ND<50	ND<50	ND<50	ND<50	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<50	--	ND<50	ND<50	ND<50	ND<50	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 Con-ductance (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 Con-ductance (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 Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	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 Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	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 Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	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 Con-ductance (umhos)	Post-purge Dissolved Oxygen ()	Pre-purge Dissolved Oxygen ()	Pre-purge ORP ()	Post-purge ORP ()	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 Con-ductance (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

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/17/2012

Kathy Brandt

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Project:	0843
BC Work Order:	1201931
Invoice ID:	B116581

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

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

Table of Contents

CHK BY [MW] DISTRIBUTION [WHITE GOLDENROD] SUB-OUT ☐

#12-01931

CHAIN OF CUSTODY FORM

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

SHORT HOLDING TIME: Cr^{+6} NO_2 NO_3 OP SS DO Cl_2 BOD MBAS COT

COC 1 of 2

Union Oil Site ID: 0843	Union Oil Consultant: Arcadis
Site Global ID: T0600102263	Consultant Contact: Kathy Brandt
Site Address: 1629 Webster St. Alameda, CA	Consultant Phone No.: 510 596 9575
Union Oil PM: Reya Kambin	Sampling Company: TRC
Union Oil PM Phone No.: 925 790 6270	Sampled By (PRINT): Andrew Vidvers
Charge Code: NWRTB-0 351 849 -0- LAB	Sampler Signature:
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

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

Special Instructions

SAMPLE ID: Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	Ferrous Iron by 3500Fe+D	ORP by ASTM D1498-76	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B, EDB/EDC by 8260B	Total Chromium by 6010	TPH-G by 8015B (C6-C12)	Specific conductance by 120.1, DO by SM4500-O	Chromium VI by 7196 / Chromium by 6010 Dissolved	Sulfate by 300.0, Nitrate by 300.0	Dissolved Manganese by 6020B, by 6020 TOC	Dissolved Vanadium by 6020B	Notes / Comments
MW-9	W-S-A	-1	120202	0727	12	X	X	X	X	X	X	X	X	X	X	X	
MW-11	W-S-A	-2		0802		X				X			X	X	X	X	
MW-7	W-S-A	-3		0848		X				X			X	X	X	X	
MW-8	W-S-A	-4		0901		X				X			X	X	X	X	
MW-5	W-S-A	-5		0940	11					X			X				
MW-6	W-S-A	-6		1021	11					X			X				
MW-1	W-S-A	-7		0742	12	X				X			X	X	X	X	
MW-1AR	W-S-A	-8		0820		X				X			X	X	X	X	
MW-1BR	W-S-A	-9		0850		X				X			X	X	X	X	
MW-10	W-S-A	-10		0934		X				X			X	X	X	X	
MW-3	W-S-A	-11		1015	9												
MW-4	W-S-A	-12		1047	9												

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:
[signature]	TRC	2/2/12 1310	Harry Bogan	BCLabs	2-2-12 1900	[signature]	BCLABS	2-2-12 2255
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
Harry Bogan	BCLabs	2-2-12 1430	[signature]	BCLABS	2-2-12 19:30	[signature]	BCL	2-2-12 2255

#12-01931

CHAIN OF CUSTODY FORM

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

COC 2 of 2

Union Oil Site ID: 0243	Union Oil Consultant: Arcadis
Site Global ID: T0600102263	Consultant Contact: Kathy Brandt
Site Address: 1629 Webster St. Alameda, CA	Consultant Phone No.: 510 596 9675
	Sampling Company: TRC
Union Oil PM: Raya Kambiz	Sampled By (PRINT): Andrew Vidwers
Union Oil PM Phone No.: 925 790 6270	Sampler Signature:
Charge Code: NWRTB-0 351849 -0- LAB	BC Laboratories, Inc.
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

ANALYSES REQUIRED

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

Special Instructions

SAMPLE ID						TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	Total Manganese by 200.8	Total Vanadium by 200.8					Notes / Comments
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers												
MW-9	W S-A	-1	120202	0727	12						X	X					
MW-11	W-S-A	-2		0802													
MW-7	W-S-A	-3		0848													
MW-8	W-S-A	-4		0901													
MW-1	W-S-A	-7		0742													
MW-1AR	W-S-A	-8		0820													
MW-1BR	W-S-A	-9		0850													
MW-10	W-S-A	-10		0934													
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
	TRC	12/02/12 1310	Hary Bogan	BCLabs	22-12-1900		BC Labs	2-2-12 2215
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
Hary Bogan	BCLabs	22-12-1430		BC Labs	2-2-12 19:30		BC	2-2-12 2255

Chain of Custody and Cooler Receipt Form for 1201931 Page 3 of 6

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 1 Of 4

Submission #: 12-01931

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

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

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: PtPE Thermometer ID: 177
Temperature: A 1.4 °C / C 2.0 °C
Date/Time 2-2-12 2355
Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B	B	B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	D	D	D							
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (6)	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	E,F	E,F	E,F							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON	G	G	G							
ENCORE										

Comments:
Sample Numbering Completed By: BLJ Date/Time: 2/3/12 @ 0820
A = Actual / C = Corrected

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

Chain of Custody and Cooler Receipt Form for 1201931 Page 4 of 6

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 2 Of 4

Submission #: 12-01931

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

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

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: Qt-Pe Thermometer ID: 177

Temperature: A 1.1 °C / C 1.7 °C

Date/Time 2-2-12

Analyst Init VOW2355

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

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/3/12 @ 0820

A = Actual / C = Corrected

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

Chain of Custody and Cooler Receipt Form for 1201931 Page 5 of 6

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 3 Of 4

Submission #: 12-01931

SHIPPING INFORMATION	SHIPPING CONTAINER
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☑ None ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Box ☐ Other ☐ (Specify)_____

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: Qt/pt Thermometer ID: 177 JNW 9-2-12

Temperature: A 1.1 °C / C 1.8|1.7 °C

Date/Time 2-2-12 2355

Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL							B	B	B	
PT PE UNPRESERVED							G	G	G	
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS							C	C	C	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON							D	D	D	D
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
P1A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	A (6)	A (6)	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							E,F	E,F	E,F	
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/3/12 @ 0820

A = Actual / C = Corrected

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

Z

Chain of Custody and Cooler Receipt Form for 1201931 Page 6 of 6

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 4 Of 4

Submission #: 12-01931

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

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

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: Glass Thermometer ID: 177

Temperature: A 0.8 °C / C 1.4 °C

Date/Time 2-2-12 2355

Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	11	12	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										B
PT PE UNPRESERVED	B,C	B,C								G
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (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	D,E	D,E								E,F
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/3/12 @ 0820

A = Actual / C = Corrected

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

3

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1201931-01	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 07:27
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-9-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:
1201931-02	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 08:02
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:
1201931-03	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 08:48
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1201931-04	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 09:01
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:
1201931-05	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 09:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-5-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:
1201931-06	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 10:21
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1201931-07	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 07:42
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:
1201931-08	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 08:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1AR-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:
1201931-09	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 08:50
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1BR-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1201931-10	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 09:34
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-10-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**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:
1201931-11	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 10:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1201931-12	**COC Number:**	---	**Receive Date:** 02/02/2012 22:55
	Project Number:	0843	**Sampling Date:** 02/02/2012 10:47
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-4-W-120202	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600102263
			Location ID (FieldPoint): MW-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-01 | **Client Sample Name:** 0843, MW-9-W-120202, 2/2/2012 7:27:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**6.1**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.6	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 13:34	JMC	MS-V12	1	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-01 | **Client Sample Name:** 0843, MW-9-W-120202, 2/2/2012 7:27:00AM

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)	77.2	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/06/12	02/08/12 00:50	jjh	GC-V4	1	BVB0381

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-01 | **Client Sample Name:** 0843, MW-9-W-120202, 2/2/2012 7:27:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**19**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**40**	**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	200	SM-3500-FeD	ND	A10	3
Non-Volatile Organic Carbon	**2.0**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**6.9**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**288.1**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/03/12	02/03/12 20:11	AKB	IC2	1	BVB0273
2	EPA-120.1	02/07/12	02/07/12 11:41	RML	MET-1	1	BVB0424
3	SM-3500-FeD	02/03/12	02/03/12 15:00	MSA	SPEC05	2	BVB1240
4	EPA-415.1	02/07/12	02/08/12 07:56	CDR	TOC2	1	BVB0334
5	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
6	ASTM-D1498	02/06/12	02/06/12 09:51	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-01 | **Client Sample Name:** 0843, MW-9-W-120202, 2/2/2012 7:27:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**5.2**	**ug/L**	**2.0**	**EPA-7196**	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		2
Dissolved Manganese	**2.0**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	**160**	**ug/L**	**10**	**EPA-6010B**	ND		4
Total Recoverable Manganese	**1500**	**ug/L**	**2.0**	**EPA-200.8**	ND	**A10**	5
Total Recoverable Vanadium	**68**	**ug/L**	**6.0**	**EPA-200.8**	ND	**A10**	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/12	02/03/12 01:21	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 09:42	ARD	PE-OP1	1	BVB0311
3	EPA-200.8	02/03/12	02/10/12 17:38	PPS	PE-EL1	1	BVB0604
4	EPA-6010B	02/08/12	02/09/12 09:18	ARD	PE-OP1	1	BVB0568
5	EPA-200.8	02/09/12	02/14/12 11:51	SRM	PE-EL1	2	BVB0629

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-02 | **Client Sample Name:** 0843, MW-11-W-120202, 2/2/2012 8:02:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**2500**	**ug/L**	**12**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	**2.0**	**ug/L**	**0.50**	**EPA-8260**	ND		1
t-Butyl alcohol	**730**	**ug/L**	**10**	**EPA-8260**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	99.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	96.9	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.0	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 13:17	JMC	MS-V12	1	BVB0480
2	EPA-8260	02/07/12	02/08/12 12:46	JMC	MS-V12	25	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-02 | **Client Sample Name:** 0843, MW-11-W-120202, 2/2/2012 8:02:00AM

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)	82.0	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/06/12	02/08/12 01:13	jjh	GC-V4	1	BVB0381

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-02 | **Client Sample Name:** 0843, MW-11-W-120202, 2/2/2012 8:02:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**7.0**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**29**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**732**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**2.7**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**6.8**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**288.8**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/03/12	02/04/12 00:19	LD1	IC2	1	BVB0273
2	EPA-120.1	02/07/12	02/07/12 11:46	RML	MET-1	1	BVB0424
3	SM-3500-FeD	02/03/12	02/03/12 15:00	MSA	SPEC05	1	BVB1240
4	EPA-415.1	02/07/12	02/08/12 08:36	CDR	TOC2	1	BVB0334
5	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
6	ASTM-D1498	02/06/12	02/06/12 10:00	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-02 | **Client Sample Name:** 0843, MW-11-W-120202, 2/2/2012 8:02:00AM

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	**540**	**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	**830**	**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	02/03/12	02/03/12 01:21	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 09:44	ARD	PE-OP1	1	BVB0311
3	EPA-200.8	02/03/12	02/10/12 17:40	PPS	PE-EL1	1	BVB0604
4	EPA-6010B	02/08/12	02/09/12 09:20	ARD	PE-OP1	1	BVB0568
5	EPA-200.8	02/09/12	02/13/12 17:31	SRM	PE-EL2	1	BVB0629

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-03 | **Client Sample Name:** 0843, MW-7-W-120202, 2/2/2012 8:48:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**6400**	**ug/L**	**50**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	**5.0**	**ug/L**	**0.50**	**EPA-8260**	ND		1
t-Butyl alcohol	**2800**	**ug/L**	**10**	**EPA-8260**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	96.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.8	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	98.1	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.4	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 12:59	JMC	MS-V12	1	BVB0480
2	EPA-8260	02/07/12	02/08/12 16:00	JMC	MS-V12	100	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-03 | **Client Sample Name:** 0843, MW-7-W-120202, 2/2/2012 8:48:00AM

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)	88.5	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/06/12	02/08/12 01:35	jjh	GC-V4	1	BVB0381

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-03 | **Client Sample Name:** 0843, MW-7-W-120202, 2/2/2012 8:48:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**4.1**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**39**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**682**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	**1800**	**ug/L**	**100**	**SM-3500-FeD**	ND		3
Non-Volatile Organic Carbon	**3.6**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**7.1**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**67.33**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/03/12	02/04/12 00:33	LD1	IC2	1	BVB0273
2	EPA-120.1	02/07/12	02/07/12 12:08	RML	MET-1	1	BVB0425
3	SM-3500-FeD	02/03/12	02/03/12 15:00	MSA	SPEC05	1	BVB1240
4	EPA-415.1	02/07/12	02/08/12 08:50	CDR	TOC2	1	BVB0334
5	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
6	ASTM-D1498	02/06/12	02/06/12 10:04	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-03 | **Client Sample Name:** 0843, MW-7-W-120202, 2/2/2012 8:48:00AM

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	**710**	**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	**620**	**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	02/03/12	02/03/12 01:21	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 09:46	ARD	PE-OP1	1	BVB0311
3	EPA-200.8	02/03/12	02/10/12 17:43	PPS	PE-EL1	1	BVB0604
4	EPA-6010B	02/08/12	02/09/12 09:22	ARD	PE-OP1	1	BVB0568
5	EPA-200.8	02/09/12	02/13/12 18:03	SRM	PE-EL2	1	BVB0629

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-04 | **Client Sample Name:** 0843, MW-8-W-120202, 2/2/2012 9:01:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**2400**	**ug/L**	**12**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	**2.3**	**ug/L**	**0.50**	**EPA-8260**	ND		1
t-Butyl alcohol	**740**	**ug/L**	**10**	**EPA-8260**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.9	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	98.1	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 12:42	JMC	MS-V12	1	BVB0480
2	EPA-8260	02/07/12	02/08/12 12:11	JMC	MS-V12	25	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-04 | **Client Sample Name:** 0843, MW-8-W-120202, 2/2/2012 9:01:00AM

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)	82.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/06/12	02/08/12 01:59	jjh	GC-V4	1	BVB0381

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-04 | **Client Sample Name:** 0843, MW-8-W-120202, 2/2/2012 9:01:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**5.2**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**47**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**602**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**3.4**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**7.0**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**196.2**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/03/12	02/04/12 00:46	LD1	IC2	1	BVB0273
2	EPA-120.1	02/07/12	02/07/12 12:20	RML	MET-1	1	BVB0425
3	SM-3500-FeD	02/03/12	02/03/12 15:00	MSA	SPEC05	1	BVB1240
4	EPA-415.1	02/07/12	02/08/12 09:03	CDR	TOC2	1	BVB0334
5	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
6	ASTM-D1498	02/06/12	02/06/12 10:08	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-04 | **Client Sample Name:** 0843, MW-8-W-120202, 2/2/2012 9:01:00AM

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	**730**	**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	**800**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**3.6**	**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	02/03/12	02/03/12 01:21	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 09:48	ARD	PE-OP1	1	BVB0311
3	EPA-200.8	02/03/12	02/10/12 17:46	PPS	PE-EL1	1	BVB0604
4	EPA-6010B	02/08/12	02/09/12 09:23	ARD	PE-OP1	1	BVB0568
5	EPA-200.8	02/09/12	02/13/12 18:06	SRM	PE-EL2	1	BVB0629

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-05 | **Client Sample Name:** 0843, MW-5-W-120202, 2/2/2012 9:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**2.1**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.7	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 12:24	JMC	MS-V12	1	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-05 | **Client Sample Name:** 0843, MW-5-W-120202, 2/2/2012 9:40:00AM

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)	75.8	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/06/12	02/08/12 02:22	jjh	GC-V4	1	BVB0381

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-05 | **Client Sample Name:** 0843, MW-5-W-120202, 2/2/2012 9:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**620**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**8.0**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**236.9**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	02/07/12	02/07/12 12:25	RML	MET-1	1	BVB0425
2	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
3	ASTM-D1498	02/06/12	02/06/12 10:13	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-05 | **Client Sample Name:** 0843, MW-5-W-120202, 2/2/2012 9:40:00AM

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
Total Chromium	**72**	**ug/L**	**10**	**EPA-6010B**	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/12	02/03/12 01:27	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 09:49	ARD	PE-OP1	1	BVB0311
3	EPA-6010B	02/08/12	02/09/12 09:25	ARD	PE-OP1	1	BVB0568

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-06 | **Client Sample Name:** 0843, MW-6-W-120202, 2/2/2012 10:21:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**94**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	**21**	**ug/L**	**10**	**EPA-8260**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	94.8	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.6	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 12:06	JMC	MS-V12	1	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-06 | **Client Sample Name:** 0843, MW-6-W-120202, 2/2/2012 10:21:00AM

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)	76.5	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/06/12	02/08/12 02:44	jjh	GC-V4	1	BVB0381

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-06 | **Client Sample Name:** 0843, MW-6-W-120202, 2/2/2012 10:21:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**535**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**6.4**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**252.9**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	02/07/12	02/07/12 12:31	RML	MET-1	1	BVB0425
2	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
3	ASTM-D1498	02/06/12	02/06/12 10:18	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-06 | **Client Sample Name:** 0843, MW-6-W-120202, 2/2/2012 10:21:00AM

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
Total Chromium	**77**	**ug/L**	**10**	**EPA-6010B**	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/12	02/03/12 01:27	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 09:51	ARD	PE-OP1	1	BVB0311
3	EPA-6010B	02/08/12	02/09/12 09:27	ARD	PE-OP1	1	BVB0568

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-07 | **Client Sample Name:** 0843, MW-1-W-120202, 2/2/2012 7:42:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**380**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.0**	**ug/L**	**1.0**	**EPA-8260**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	**94**	**ug/L**	**10**	**EPA-8260**	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	92.5	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.1	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	98.2	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.0	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 11:48	JMC	MS-V12	1	BVB0480
2	EPA-8260	02/07/12	02/08/12 11:53	JMC	MS-V12	10	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-07 | **Client Sample Name:** 0843, MW-1-W-120202, 2/2/2012 7:42:00AM

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)	75.5	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/06/12	02/08/12 03:07	jjh	GC-V4	1	BVB0381

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-07 | **Client Sample Name:** 0843, MW-1-W-120202, 2/2/2012 7:42:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**20**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**23**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**424**	**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	**7.6**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**273.0**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/03/12	02/04/12 01:00	LD1	IC2	1	BVB0273
2	EPA-120.1	02/07/12	02/07/12 12:37	RML	MET-1	1	BVB0425
3	SM-3500-FeD	02/03/12	02/03/12 15:00	MSA	SPEC05	1	BVB1240
4	EPA-415.1	02/07/12	02/08/12 09:16	CDR	TOC2	1	BVB0334
5	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
6	ASTM-D1498	02/06/12	02/06/12 10:22	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-07 | **Client Sample Name:** 0843, MW-1-W-120202, 2/2/2012 7:42:00AM

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	**1.4**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	**130**	**ug/L**	**10**	**EPA-6010B**	ND		4
Total Recoverable Manganese	**920**	**ug/L**	**2.0**	**EPA-200.8**	ND	**A10**	5
Total Recoverable Vanadium	**67**	**ug/L**	**6.0**	**EPA-200.8**	ND	**A10**	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/12	02/03/12 01:27	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 09:53	ARD	PE-OP1	1	BVB0311
3	EPA-200.8	02/03/12	02/10/12 17:49	PPS	PE-EL1	1	BVB0604
4	EPA-6010B	02/08/12	02/09/12 09:28	ARD	PE-OP1	1	BVB0568
5	EPA-200.8	02/09/12	02/14/12 11:54	SRM	PE-EL1	2	BVB0629

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-08 | **Client Sample Name:** 0843, MW-1AR-W-120202, 2/2/2012 8:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**23**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.4**	**ug/L**	**1.0**	**EPA-8260**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.7	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 11:31	JMC	MS-V12	1	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-08 | **Client Sample Name:** 0843, MW-1AR-W-120202, 2/2/2012 8:20:00AM

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)	74.5	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/07/12	02/08/12 03:29	jjh	GC-V4	1	BVB0423

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-08 | **Client Sample Name:** 0843, MW-1AR-W-120202, 2/2/2012 8:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**23**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**35**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**468**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**1.6**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**7.9**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**269.1**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/03/12	02/04/12 01:14	LD1	IC2	1	BVB0273
2	EPA-120.1	02/07/12	02/07/12 12:42	RML	MET-1	1	BVB0425
3	SM-3500-FeD	02/03/12	02/03/12 15:00	MSA	SPEC05	1	BVB1240
4	EPA-415.1	02/07/12	02/08/12 09:30	CDR	TOC2	1	BVB0334
5	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
6	ASTM-D1498	02/06/12	02/06/12 10:26	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-08 | **Client Sample Name:** 0843, MW-1AR-W-120202, 2/2/2012 8:20:00AM

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	**110**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	**22**	**ug/L**	**10**	**EPA-6010B**	ND		4
Total Recoverable Manganese	**290**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**11**	**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	02/03/12	02/03/12 01:27	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 09:54	ARD	PE-OP1	1	BVB0311
3	EPA-200.8	02/03/12	02/10/12 17:52	PPS	PE-EL1	1	BVB0604
4	EPA-6010B	02/10/12	02/14/12 10:29	ARD	PE-OP1	1	BVB0715
5	EPA-200.8	02/09/12	02/13/12 18:12	SRM	PE-EL2	1	BVB0629

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-09 | **Client Sample Name:** 0843, MW-1BR-W-120202, 2/2/2012 8:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**15**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.7**	**ug/L**	**1.0**	**EPA-8260**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 11:13	JMC	MS-V12	1	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-09 | **Client Sample Name:** 0843, MW-1BR-W-120202, 2/2/2012 8:50:00AM

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)	72.8	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/07/12	02/08/12 06:11	jjh	GC-V4	1	BVB0423

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-09 | **Client Sample Name:** 0843, MW-1BR-W-120202, 2/2/2012 8:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**29**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**28**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**456**	**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	**7.2**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**273.1**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/03/12	02/04/12 01:27	LD1	IC2	1	BVB0273
2	EPA-120.1	02/07/12	02/07/12 12:48	RML	MET-1	1	BVB0425
3	SM-3500-FeD	02/03/12	02/03/12 15:00	MSA	SPEC05	1	BVB1240
4	EPA-415.1	02/07/12	02/08/12 09:43	CDR	TOC2	1	BVB0334
5	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
6	ASTM-D1498	02/06/12	02/06/12 10:31	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-09 | **Client Sample Name:** 0843, MW-1BR-W-120202, 2/2/2012 8:50:00AM

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	**40**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	**55**	**ug/L**	**10**	**EPA-6010B**	ND		4
Total Recoverable Manganese	**400**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**23**	**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	02/03/12	02/03/12 01:27	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 10:01	ARD	PE-OP1	1	BVB0311
3	EPA-200.8	02/03/12	02/10/12 17:55	PPS	PE-EL1	1	BVB0604
4	EPA-6010B	02/10/12	02/14/12 10:31	ARD	PE-OP1	1	BVB0715
5	EPA-200.8	02/09/12	02/13/12 18:14	SRM	PE-EL2	1	BVB0629

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-10 | **Client Sample Name:** 0843, MW-10-W-120202, 2/2/2012 9:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**1.4**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**3.2**	**ug/L**	**1.0**	**EPA-8260**	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 10:55	JMC	MS-V12	1	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-10 | **Client Sample Name:** 0843, MW-10-W-120202, 2/2/2012 9:34:00AM

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)	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	02/07/12	02/08/12 06:33	jjh	GC-V4	1	BVB0423

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-10 | **Client Sample Name:** 0843, MW-10-W-120202, 2/2/2012 9:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Nitrate as NO3	**20**	**mg/L**	**0.44**	**EPA-300.0**	ND		1
Sulfate	**34**	**mg/L**	**1.0**	**EPA-300.0**	ND		1
Electrical Conductivity @ 25 C	**535**	**umhos/cm**	**1.00**	**EPA-120.1**			2
Iron (II) Species	ND	ug/L	100	SM-3500-FeD	ND		3
Non-Volatile Organic Carbon	**1.4**	**mg/L**	**0.30**	**EPA-415.1**	ND		4
Dissolved Oxygen	**6.9**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	5
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**297.6**	**mV**	**-1000**	**ASTM-D1498**			6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/03/12	02/04/12 01:41	LD1	IC2	1	BVB0273
2	EPA-120.1	02/07/12	02/07/12 12:54	RML	MET-1	1	BVB0425
3	SM-3500-FeD	02/03/12	02/03/12 15:00	MSA	SPEC05	1	BVB1241
4	EPA-415.1	02/07/12	02/08/12 10:26	CDR	TOC2	1	BVB0335
5	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0404
6	ASTM-D1498	02/06/12	02/06/12 10:36	RML	MET-1	1	BVB0379

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

BCL Sample ID: 1201931-10 | **Client Sample Name:** 0843, MW-10-W-120202, 2/2/2012 9:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**10**	**ug/L**	**2.0**	**EPA-7196**	ND		1
Dissolved Chromium	**11**	**ug/L**	**10**	**EPA-6010B**	ND		2
Dissolved Manganese	**5.3**	**ug/L**	**1.0**	**EPA-200.8**	ND		3
Dissolved Vanadium	ND	ug/L	3.0	EPA-200.8	ND		3
Total Chromium	**16**	**ug/L**	**10**	**EPA-6010B**	ND		4
Total Recoverable Manganese	**62**	**ug/L**	**1.0**	**EPA-200.8**	ND		5
Total Recoverable Vanadium	**3.7**	**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	02/03/12	02/03/12 01:21	TDC	KONE-1	1	BVB0228
2	EPA-6010B	02/03/12	02/07/12 10:03	ARD	PE-OP1	1	BVB0311
3	EPA-200.8	02/03/12	02/10/12 17:58	PPS	PE-EL1	1	BVB0604
4	EPA-6010B	02/10/12	02/14/12 10:33	ARD	PE-OP1	1	BVB0715
5	EPA-200.8	02/09/12	02/13/12 18:17	SRM	PE-EL2	1	BVB0629

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-11 | **Client Sample Name:** 0843, MW-3-W-120202, 2/2/2012 10:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**1.3**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.8	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 10:37	JMC	MS-V12	1	BVB0481

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-11 | **Client Sample Name:** 0843, MW-3-W-120202, 2/2/2012 10:15:00AM

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)	74.1	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/07/12	02/08/12 06:56	jjh	GC-V4	1	BVB0423

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-11 | **Client Sample Name:** 0843, MW-3-W-120202, 2/2/2012 10:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**576**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**6.0**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**301.8**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	02/07/12	02/07/12 13:00	RML	MET-1	1	BVB0425
2	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0405
3	ASTM-D1498	02/06/12	02/06/12 10:44	RML	MET-1	1	BVB0380

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1201931-12 | **Client Sample Name:** 0843, MW-4-W-120202, 2/2/2012 10:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**10**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	94.8	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	93.3	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/12	02/07/12 10:20	JMC	MS-V12	1	BVB0480

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1201931-12 | **Client Sample Name:** 0843, MW-4-W-120202, 2/2/2012 10:47:00AM

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)	73.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/07/12	02/08/12 07:19	jjh	GC-V4	1	BVB0423

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1201931-12 | **Client Sample Name:** 0843, MW-4-W-120202, 2/2/2012 10:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C	**980**	**umhos/cm**	**1.00**	**EPA-120.1**			1
Dissolved Oxygen	**7.7**	**mg O/L**	**0.50**	**SM-4500OG**		**S05**	2
Oxidation Reduction Potential (Eobs_Ag/AgCl)	**297.7**	**mV**	**-1000**	**ASTM-D1498**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	02/07/12	02/07/12 13:05	RML	MET-1	1	BVB0425
2	SM-4500OG	02/03/12	02/03/12 09:30	HPR	YSI-57	1	BVB0405
3	ASTM-D1498	02/06/12	02/06/12 10:53	RML	MET-1	1	BVB0380

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
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
QC Batch ID: BVB0480						
Benzene	BVB0480-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVB0480-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVB0480-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVB0480-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVB0480-BLK1	ND	ug/L	0.50		
Toluene	BVB0480-BLK1	ND	ug/L	0.50		
Total Xylenes	BVB0480-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BVB0480-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BVB0480-BLK1	ND	ug/L	10		
Diisopropyl ether	BVB0480-BLK1	ND	ug/L	0.50		
Ethanol	BVB0480-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BVB0480-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BVB0480-BLK1	104	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0480-BLK1	98.1	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0480-BLK1	95.6	%	86 - 115 (LCL - UCL)		
QC Batch ID: BVB0481						
Benzene	BVB0481-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVB0481-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVB0481-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVB0481-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVB0481-BLK1	ND	ug/L	0.50		
Toluene	BVB0481-BLK1	ND	ug/L	0.50		
Total Xylenes	BVB0481-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BVB0481-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BVB0481-BLK1	ND	ug/L	10		
Diisopropyl ether	BVB0481-BLK1	ND	ug/L	0.50		
Ethanol	BVB0481-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BVB0481-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BVB0481-BLK1	103	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0481-BLK1	103	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0481-BLK1	97.3	%	86 - 115 (LCL - UCL)		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVB0480										
Benzene	BVB0480-BS1	LCS	23.260	25.000	ug/L	93.0		70 - 130		
Toluene	BVB0480-BS1	LCS	22.190	25.000	ug/L	88.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0480-BS1	LCS	10.330	10.000	ug/L	103		76 - 114		
Toluene-d8 (Surrogate)	BVB0480-BS1	LCS	9.9000	10.000	ug/L	99.0		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0480-BS1	LCS	9.8000	10.000	ug/L	98.0		86 - 115		
QC Batch ID: BVB0481										
Benzene	BVB0481-BS1	LCS	24.720	25.000	ug/L	98.9		70 - 130		
Toluene	BVB0481-BS1	LCS	24.260	25.000	ug/L	97.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0481-BS1	LCS	10.010	10.000	ug/L	100		76 - 114		
Toluene-d8 (Surrogate)	BVB0481-BS1	LCS	10.150	10.000	ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0481-BS1	LCS	9.6600	10.000	ug/L	96.6		86 - 115		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
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	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVB0480	Used client sample: Y - Description: MW-4-W-120202, 02/02/2012 10:47										
Benzene	MS	1201931-12	ND	23.060	25.000	ug/L		92.2		70 - 130	
	MSD	1201931-12	ND	23.810	25.000	ug/L	3.2	95.2	20	70 - 130	
Toluene	MS	1201931-12	ND	21.390	25.000	ug/L		85.6		70 - 130	
	MSD	1201931-12	ND	22.300	25.000	ug/L	4.2	89.2	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1201931-12	ND	10.460	10.000	ug/L		105		76 - 114	
	MSD	1201931-12	ND	10.070	10.000	ug/L	3.8	101		76 - 114	
Toluene-d8 (Surrogate)	MS	1201931-12	ND	9.8100	10.000	ug/L		98.1		88 - 110	
	MSD	1201931-12	ND	9.9700	10.000	ug/L	1.6	99.7		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1201931-12	ND	9.7600	10.000	ug/L		97.6		86 - 115	
	MSD	1201931-12	ND	9.8400	10.000	ug/L	0.8	98.4		86 - 115	
QC Batch ID: BVB0481	Used client sample: Y - Description: MW-3-W-120202, 02/02/2012 10:15										
Benzene	MS	1201931-11	ND	27.320	25.000	ug/L		109		70 - 130	
	MSD	1201931-11	ND	25.410	25.000	ug/L	7.2	102	20	70 - 130	
Toluene	MS	1201931-11	ND	25.630	25.000	ug/L		103		70 - 130	
	MSD	1201931-11	ND	24.190	25.000	ug/L	5.8	96.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1201931-11	ND	10.230	10.000	ug/L		102		76 - 114	
	MSD	1201931-11	ND	10.380	10.000	ug/L	1.5	104		76 - 114	
Toluene-d8 (Surrogate)	MS	1201931-11	ND	10.080	10.000	ug/L		101		88 - 110	
	MSD	1201931-11	ND	9.8800	10.000	ug/L	2.0	98.8		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1201931-11	ND	9.8300	10.000	ug/L		98.3		86 - 115	
	MSD	1201931-11	ND	10.110	10.000	ug/L	2.8	101		86 - 115	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
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: BVB0381						
Gasoline Range Organics (C6 - C12)	BVB0381-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BVB0381-BLK1	71.5	%	70 - 130 (LCL - UCL)		
QC Batch ID: BVB0423						
Gasoline Range Organics (C6 - C12)	BVB0423-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BVB0423-BLK1	77.1	%	70 - 130 (LCL - UCL)		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVB0381										
Gasoline Range Organics (C6 - C12)	BVB0381-BS1	LCS	984.68		ug/L			85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BVB0381-BS1	LCS	34.798	40.000	ug/L	87.0		70 - 130		
QC Batch ID: BVB0423										
Gasoline Range Organics (C6 - C12)	BVB0423-BS1	LCS	1034.9		ug/L			85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BVB0423-BS1	LCS	34.256	40.000	ug/L	85.6		70 - 130		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVB0381	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1201079-33	ND	1011.3		ug/L				70 - 130	
	MSD	1201079-33	ND	1012.8		ug/L	0.2		20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1201079-33	ND	35.035	40.000	ug/L		87.6		70 - 130	
	MSD	1201079-33	ND	34.083	40.000	ug/L	2.8	85.2		70 - 130	
QC Batch ID: BVB0423	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1201079-34	ND	1023.3		ug/L				70 - 130	
	MSD	1201079-34	ND	1058.1		ug/L	3.3		20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1201079-34	ND	34.514	40.000	ug/L		86.3		70 - 130	
	MSD	1201079-34	ND	34.124	40.000	ug/L	1.1	85.3		70 - 130	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB0273						
Nitrate as NO3	BVB0273-BLK1	ND	mg/L	0.44		
Sulfate	BVB0273-BLK1	ND	mg/L	1.0		
QC Batch ID: BVB0334						
Non-Volatile Organic Carbon	BVB0334-BLK1	ND	mg/L	0.30		
QC Batch ID: BVB0335						
Non-Volatile Organic Carbon	BVB0335-BLK1	ND	mg/L	0.30		
QC Batch ID: BVB1240						
Iron (II) Species	BVB1240-BLK1	ND	ug/L	100		
QC Batch ID: BVB1241						
Iron (II) Species	BVB1241-BLK1	ND	ug/L	100		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVB0273										
Nitrate as NO3	BVB0273-BS1	LCS	22.842	22.134	mg/L	103		90 - 110		
Sulfate	BVB0273-BS1	LCS	104.81	100.00	mg/L	105		90 - 110		
QC Batch ID: BVB0334										
Non-Volatile Organic Carbon	BVB0334-BS1	LCS	5.2780	5.0000	mg/L	106		85 - 115		
QC Batch ID: BVB0335										
Non-Volatile Organic Carbon	BVB0335-BS1	LCS	5.3540	5.0000	mg/L	107		85 - 115		
QC Batch ID: BVB0424										
Electrical Conductivity @ 25 C	BVB0424-BS1	LCS	315.80	303.00	umhos/cm	104		90 - 110		
QC Batch ID: BVB0425										
Electrical Conductivity @ 25 C	BVB0425-BS1	LCS	313.80	303.00	umhos/cm	104		90 - 110		
QC Batch ID: BVB1240										
Iron (II) Species	BVB1240-BS1	LCS	2005.5	2000.0	ug/L	100		90 - 110		
QC Batch ID: BVB1241										
Iron (II) Species	BVB1241-BS1	LCS	2005.5	2000.0	ug/L	100		90 - 110		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVB0273	Used client sample: Y - Description: MW-9-W-120202, 02/02/2012 07:27										
Nitrate as NO3	DUP	1201931-01	18.885	18.787		mg/L	0.5		10		
	MS	1201931-01	18.885	41.759	22.358	mg/L		102		80 - 120	
	MSD	1201931-01	18.885	42.363	22.358	mg/L	1.4	105	10	80 - 120	
Sulfate	DUP	1201931-01	39.754	39.603		mg/L	0.4		10		
	MS	1201931-01	39.754	151.04	101.01	mg/L		110		80 - 120	
	MSD	1201931-01	39.754	151.43	101.01	mg/L	0.3	111	10	80 - 120	
QC Batch ID: BVB0334	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1201907-03	2.3060	2.2890		mg/L	0.7		10		
	MS	1201907-03	2.3060	7.5085	5.0251	mg/L		104		80 - 120	
	MSD	1201907-03	2.3060	7.5477	5.0251	mg/L	0.5	104	10	80 - 120	
QC Batch ID: BVB0335	Used client sample: Y - Description: MW-10-W-120202, 02/02/2012 09:34										
Non-Volatile Organic Carbon	DUP	1201931-10	1.4300	1.4290		mg/L	0.1		10		
	MS	1201931-10	1.4300	6.7367	5.0251	mg/L		106		80 - 120	
	MSD	1201931-10	1.4300	6.6794	5.0251	mg/L	0.9	104	10	80 - 120	
QC Batch ID: BVB0379	Used client sample: Y - Description: MW-9-W-120202, 02/02/2012 07:27										
Oxidation Reduction Potential (Eobs_Ag/	DUP	1201931-01	288.07	298.05		mV	3.4		10		
QC Batch ID: BVB0380	Used client sample: Y - Description: MW-3-W-120202, 02/02/2012 10:15										
Oxidation Reduction Potential (Eobs_Ag/	DUP	1201931-11	301.75	300.36		mV	0.5		10		
QC Batch ID: BVB0404	Used client sample: Y - Description: MW-9-W-120202, 02/02/2012 07:27										
Dissolved Oxygen	DUP	1201931-01	6.9000	6.9000		mg O/L	0		10		
QC Batch ID: BVB0405	Used client sample: Y - Description: MW-3-W-120202, 02/02/2012 10:15										
Dissolved Oxygen	DUP	1201931-11	6.0000	6.0000		mg O/L	0		10		
QC Batch ID: BVB0424	Used client sample: N										
Electrical Conductivity @ 25 C	DUP	201103-22RE´	239.80	241.90		umhos/cm	0.9		10		
QC Batch ID: BVB0425	Used client sample: Y - Description: MW-7-W-120202, 02/02/2012 08:48										
Electrical Conductivity @ 25 C	DUP	1201931-03	682.00	682.10		umhos/cm	0.0		10		
QC Batch ID: BVB1240	Used client sample: N										
Iron (II) Species	DUP	1201921-03	4198.8	4164.2		ug/L	0.8		10		
QC Batch ID: BVB1241	Used client sample: Y - Description: MW-10-W-120202, 02/02/2012 09:34										
Iron (II) Species	DUP	1201931-10	ND	ND		ug/L			10		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB0228						
Hexavalent Chromium	BVB0228-BLK1	ND	ug/L	2.0		
QC Batch ID: BVB0311						
Dissolved Chromium	BVB0311-BLK1	ND	ug/L	10		
QC Batch ID: BVB0568						
Total Chromium	BVB0568-BLK1	ND	ug/L	10		
QC Batch ID: BVB0604						
Dissolved Manganese	BVB0604-BLK1	ND	ug/L	1.0		
Dissolved Vanadium	BVB0604-BLK1	ND	ug/L	3.0		
QC Batch ID: BVB0629						
Total Recoverable Manganese	BVB0629-BLK1	ND	ug/L	1.0		
Total Recoverable Vanadium	BVB0629-BLK1	ND	ug/L	3.0		
QC Batch ID: BVB0715						
Total Chromium	BVB0715-BLK1	ND	ug/L	10		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BVB0228										
Hexavalent Chromium	BVB0228-BS1	LCS	50.825	50.000	ug/L	102		85 - 115		
QC Batch ID: BVB0311										
Dissolved Chromium	BVB0311-BS1	LCS	201.56	200.00	ug/L	101		85 - 115		
QC Batch ID: BVB0568										
Total Chromium	BVB0568-BS1	LCS	206.14	200.00	ug/L	103		85 - 115		
QC Batch ID: BVB0604										
Dissolved Manganese	BVB0604-BS1	LCS	105.50	100.00	ug/L	105		85 - 115		
Dissolved Vanadium	BVB0604-BS1	LCS	41.982	40.000	ug/L	105		85 - 115		
QC Batch ID: BVB0629										
Total Recoverable Manganese	BVB0629-BS1	LCS	101.04	100.00	ug/L	101		85 - 115		
Total Recoverable Vanadium	BVB0629-BS1	LCS	37.740	40.000	ug/L	94.4		85 - 115		
QC Batch ID: BVB0715										
Total Chromium	BVB0715-BS1	LCS	204.55	200.00	ug/L	102		85 - 115		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BVB0228	Used client sample: Y - Description: MW-9-W-120202, 02/02/2012 07:27										
Hexavalent Chromium	DUP	1201931-01	5.2450	5.3470		ug/L	1.9		10		
	MS	1201931-01	5.2450	57.119	52.632	ug/L		98.6		85 - 115	
	MSD	1201931-01	5.2450	57.783	52.632	ug/L	1.2	99.8	10	85 - 115	
QC Batch ID: BVB0311	Used client sample: N										
Dissolved Chromium	DUP	1202002-01	5.7902	ND		ug/L			20		
	MS	1202002-01	5.7902	220.06	204.08	ug/L		105		75 - 125	
	MSD	1202002-01	5.7902	218.76	204.08	ug/L	0.6	104	20	75 - 125	
QC Batch ID: BVB0568	Used client sample: N										
Total Chromium	DUP	1201917-02	17.767	17.854		ug/L	0.5		20		
	MS	1201917-02	17.767	227.57	200.00	ug/L		105		75 - 125	
	MSD	1201917-02	17.767	214.63	200.00	ug/L	5.9	98.4	20	75 - 125	
QC Batch ID: BVB0604	Used client sample: N										
Dissolved Manganese	DUP	1201991-02	ND	ND		ug/L			20		
	MS	1201991-02	ND	101.67	102.04	ug/L		99.6		70 - 130	
	MSD	1201991-02	ND	101.35	102.04	ug/L	0.3	99.3	20	70 - 130	
Dissolved Vanadium	DUP	1201991-02	ND	ND		ug/L			20		
	MS	1201991-02	ND	40.158	40.816	ug/L		98.4		70 - 130	
	MSD	1201991-02	ND	39.100	40.816	ug/L	2.7	95.8	20	70 - 130	
QC Batch ID: BVB0629	Used client sample: Y - Description: MW-11-W-120202, 02/02/2012 08:02										
Total Recoverable Manganese	DUP	1201931-02	832.14	802.41		ug/L	3.6		20		
	MS	1201931-02	832.14	855.77	100.00	ug/L		23.6		70 - 130	A03
	MSD	1201931-02	832.14	861.21	100.00	ug/L	0.6	29.1	20	70 - 130	A03
Total Recoverable Vanadium	DUP	1201931-02	0.88100	ND		ug/L			20		A02
	MS	1201931-02	0.88100	37.890	40.000	ug/L		92.5		70 - 130	
	MSD	1201931-02	0.88100	38.867	40.000	ug/L	2.5	95.0	20	70 - 130	
QC Batch ID: BVB0715	Used client sample: N										
Total Chromium	DUP	1202004-01	1.5247	ND		ug/L			20		
	MS	1202004-01	1.5247	212.83	200.00	ug/L		106		75 - 125	
	MSD	1202004-01	1.5247	211.09	200.00	ug/L	0.8	105	20	75 - 125	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/17/2012 14:06
Project: 0843
Project Number: 351849
Project Manager: Kathy Brandt

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.
A02	The difference between duplicate readings is less than the PQL.
A03	The sample concentration is more than 4 times the spike level.
A10	PQL's and MDL's were raised due to matrix interference.
S05	The sample holding time was exceeded.