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

April 26, 2013

Mr. Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RECEIVED
By Alameda County Environmental Health at 10:16 am, Apr 29, 2013

RE: First Quarter 2013 Semi-Annual Groundwater Monitoring Report
800, 726, and 706 Harrison Street, Oakland, California 94607
Fuel Leak Case No.: RO0000231, RO0000321, and RO0000484
Comingled Plume Claim No. 6678

Dear Mr. Wickham,

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 2013 Semi-Annual Groundwater 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

ENVIRONMENT

Mr. Jerry Wickham
Senior Hazardous Materials Specialist
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject:
First Quarter 2013 Semi-Annually Groundwater Monitoring Report Submittal

Date:
April 26, 2013

Contact:
Katherine Brandt

Phone:
510.596.9675

Email:
Katherine.Brandt@arcadis-us.com

Our ref:
B0047339.2012

Dear Mr. Wickham:

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 Semi-Annual Groundwater Monitoring Report for the following facility:

Facility No.	**Case No.**	**Location**
0752/YEE/GIN Comingled Plume	RO0000231	706/726/800 Harrison St Oakland, California

If you have any questions or comments regarding the contents of this document, please contact Ms. Roya Kambin of Chevron at 925.790.6270 or by e-mail at RKambin@Chevron.com. Alternatively, you may contact Katherine Brandt of ARCADIS at 510.596.9675 or by e-mail at Katherine.Brandt@arcadis-us.com.

Sincerely,

ARCADIS

Katherine Brandt
Certified Project Manager

Jacob Henry, P.G.
Professional Geologis

PROFESSIONAL GEOLOGIST
JACOB T. HENRY
No. 8504
STATE OF CALIFORNIA

Copies:

Ms. Cherie McCaulou, CRWQCB – San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, California 94612 (CD)

Ms. Roya Kambin, Union Oil of California (electronic copy only)

Mr. Muhammad Usman and Mr. Mahmood M. Ali, Property Owners - 800 Harrison Street, Oakland, California

Mr. Peter Yee and Mr. Kin Chan, 726 Harrison Street Property Owners

Mr. Bo Gin, 726 Harrison Street Property Owner – 342 Lester Avenue, Oakland, California 94606

UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2013
April 26, 2013

Facility No.: 0752/Yee/Gin Comingled Plume Address: 706/726/800 Harrison Street, Oakland, California

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

Primary Agency/Contact Person/Regulatory ID No.: Alameda County Environmental Health (ACEH) / Mr. Jerry Wickham / Case No. RO0000231

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

1. Gettler-Ryan conducted groundwater monitoring and sampling on February 27, 2013. Field data sheets and general procedures are included as **Attachment A**. Eight (8) groundwater monitoring wells associated with the former Unocal station no. 0752, seven (7) wells associated with 706 Harrison Street (GIN), and seven (7) groundwater monitoring wells associated with 726 Harrison Street (YEE) were gauged and sampled during this monitoring event.

   Groundwater samples were analyzed for total purgeable petroleum hydrocarbons (TPPH) by Environmental Protection Agency (EPA) Method 8015B-GC/MS; benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), methyl tert-butyl ether (MTBE), 1,2-dibromoethane (EDB), and 1,2-dichloroethane (EDC) by EPA Method 8260B; methane by RSK-175M; total alkalinity by EPA-310.1; nitrate and sulfate by EPA-300; nitrite by EPA-353.2; non-volatile organic carbon by EPA-415.1; and dissolved iron by EPA-6010B. The groundwater samples collected from MW-1 (800 Harrison Street) were sampled for additional analytes that include the full volatile organic compound (VOC) suite and dissolved metals (cadmium, chromium, lead, nickel, and zinc).

   The site location map, the site plan, and the groundwater contour map are presented on **Figures 1** through **3**. Concentration maps for TPPH, benzene, and MTBE are on **Figures 4** through **6**. Current Groundwater Gauging and Analytical Results are summarized in **Table 1**, Additional Groundwater Analytical Results are summarized in **Tables 1a**, **1b**, and **1c**, Historical Groundwater Gauging and Analytical Results are summarized in **Table 2**, Additional Historical Groundwater Analytical Results are summarized in **Tables 2a**, **2b**, and **2c**, and Historical Groundwater Results from TRC are included as **Attachment B**. A copy of the laboratory analytical report and chain-of-custody documentation is included as **Attachment C.**

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Third Quarter – 2013):

1. Perform groundwater monitoring and related reporting during third quarter 2013.

Current Phase of Project:	Groundwater Monitoring/ Pilot Testing
Site Use:	Active 76 branded service station/parking lots (YEE/GIN)
Frequency of Sampling:	Groundwater – Semi-Annually
Frequency of Monitoring:	Groundwater – Semi-Annually
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 2000' Radius and Their Respective Directions:	San Francisco Bay (approximately 300 ft west)
Groundwater Use Designation:	Potential Drinking Water Source
Current Remediation Techniques:	None at this time

UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2013
April 26, 2013

Facility No.: 0752/Yee/Gin Comingled Plume Address: 706/726/800 Harrison Street, Oakland, California

Permits for Discharge (No.): None

Approximate Depth to Groundwater (at Unocal 0752): 17.48 (MW-6) – 19.41 (MW-1) feet below top of casing

Measured X Estimated

Approximate Groundwater Elevation (at Unocal 0752): 14.37 (MW-7) – 15.58 (MW-2) feet relative to mean sea level

Measured X Estimated

Groundwater Gradient: 0.009 ft/ft (Magnitude) Southwest (Direction)

DISCUSSION:

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

706 Harrison Street:

The maximum dissolved concentrations of TPPH (45,000 micrograms per liter [µg/L]), benzene (1,700 µg/L), toluene (2,500 µg/L), ethylbenzene (1,200 µg/L), total xylenes (4,900 µg/L), MTBE (2,700 µg/L), and EDC (1.0 µg/L) were detected in the samples collected from MW-2. EDB and ethanol were not detected above the laboratory reporting limits for all wells sampled.

726 Harrison Street:

The maximum dissolved concentrations of TPPH (3,000 µg/L), benzene (480 µg/L), toluene (26 µg/L), ethylbenzene (52 µg/L), total xylenes (56 µg/L), and MTBE (2,600 µg/L) were detected in the samples collected from MW-1. The maximum dissolved concentration of EDC (0.70 µg/L) was detected in the samples collected from MW-6. EDB and ethanol were not detected above the laboratory reporting limits for all wells sampled.

800 Harrison Street:

The maximum dissolved concentrations of TPPH (1,600 µg/L), ethylbenzene (2.8 µg/L), and MTBE (820 µg/L) were detected in the samples collected from MW-3. The maximum dissolved concentrations of benzene (58 µg/L), toluene (11 µg/L), and total xylenes (13 µg/L) were detected in the samples collected from MW-5. EDB, EDC, and ethanol were not detected above the laboratory reporting limits for all wells sampled. No additional VOCs were detected this sampling event.

Groundwater elevations at the site vary by approximately two feet, creating a relatively gentle hydraulic gradient of 0.009 foot per foot in the southwest direction.

CONCLUSIONS AND RECOMMENDATIONS:

Dissolved constituents of concern concentrations have remained relatively consistent with previous quarters. ARCADIS recommends continued groundwater monitoring.

UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2013
April 26, 2013

Facility No.: 0752/Yee/Gin Comingled Plume Address: 706/726/800 Harrison Street, Oakland, California

ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Groundwater Contour Map
Figure 4: TPPH Isoconcentration Map
Figure 5: Benzene Isoconcentration Map
Figure 6: MTBE Isoconcentration Map

Table 1: Current Groundwater Gauging and Analytical Results
Table 1a: Additional Groundwater Analytical Results – MNA Parameters
Table 1b: Additional Groundwater Analytical Results – VOCs
Table 1c: Additional Groundwater Analytical Results – Metals
Table 2: Historical Groundwater Gauging and Analytical Results
Table 2a: Historical Additional Groundwater Analytical Results – MNA Parameters
Table 2b: Historical Additional Groundwater Analytical Results – VOCs
Table 2c: Historical Additional Groundwater Analytical Results – Metals

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

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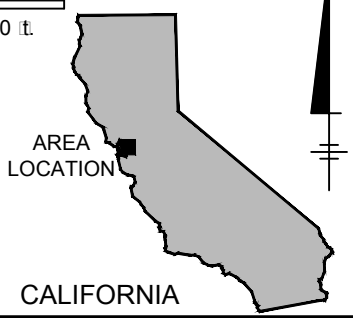
Figures

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

0 2000' 4000'

Appro□mate S□ale: 1 □□. = 2000 □t.



UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

SITE LOCATION MAP

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FIGURE 1

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
C:\Users\j.arris\Des top\ENVCAD\B0047339\2012\000021□12\DWG\47339N01.dwg LAYOUT: 1 SAVED: 3/9/2012 1:32 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 3/9/2012 1:32 PM BY: HARRIS, JESSICA
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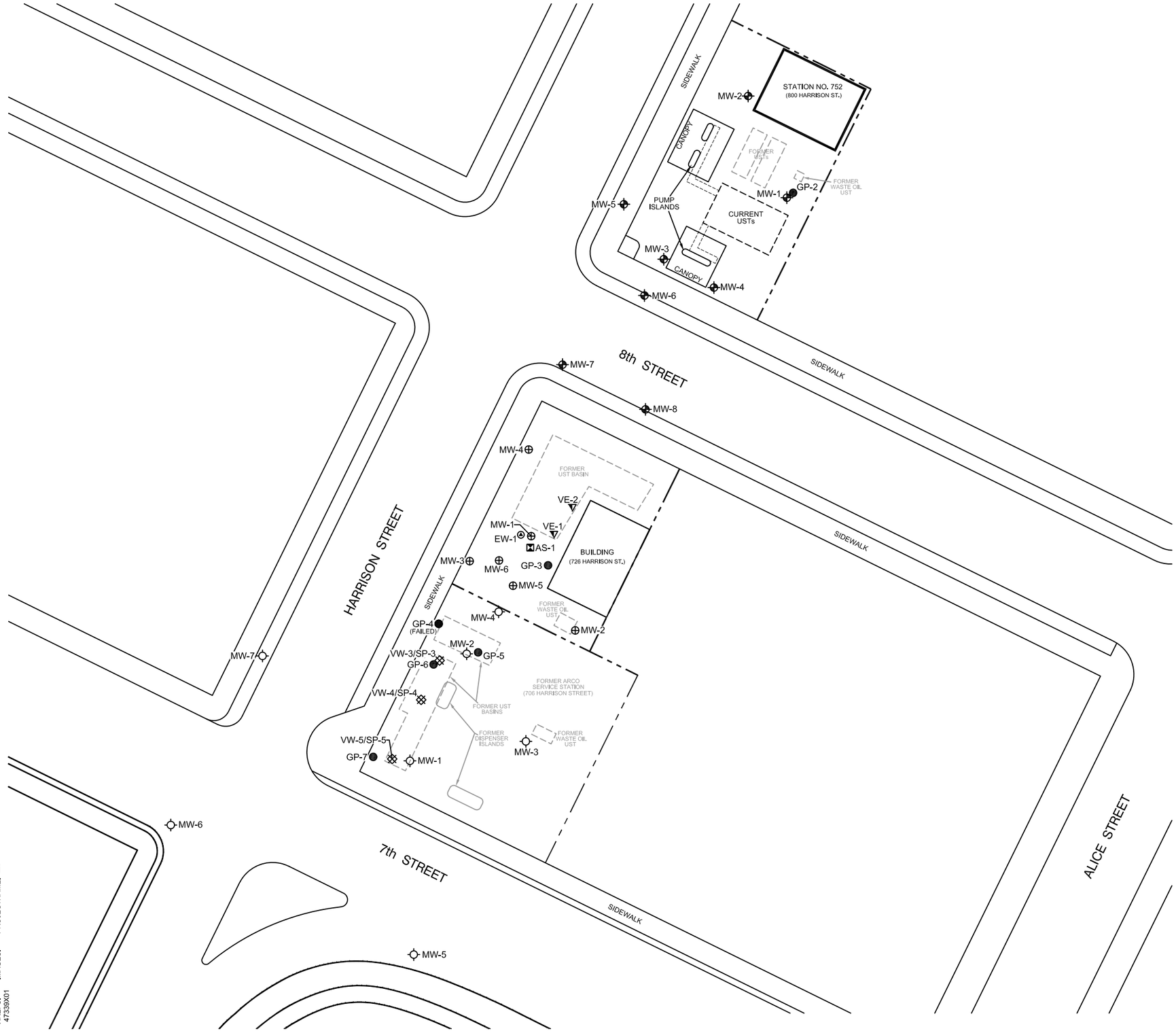

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (GIN)
- VW-3/SP-3 SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN)
- MW-1 GROUNDWATER MONITORING WELL (YEE)
- AS-1 AIR SPARGE WELL (YEE)
- EW-1 EXTRACTION WELL (YEE)
- VE-1 DESTROYED WELL (YEE)
- GP-2 GEOPROBE™ (JUNE 2011)

NOTE:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.

0 50' 100'

GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE 2

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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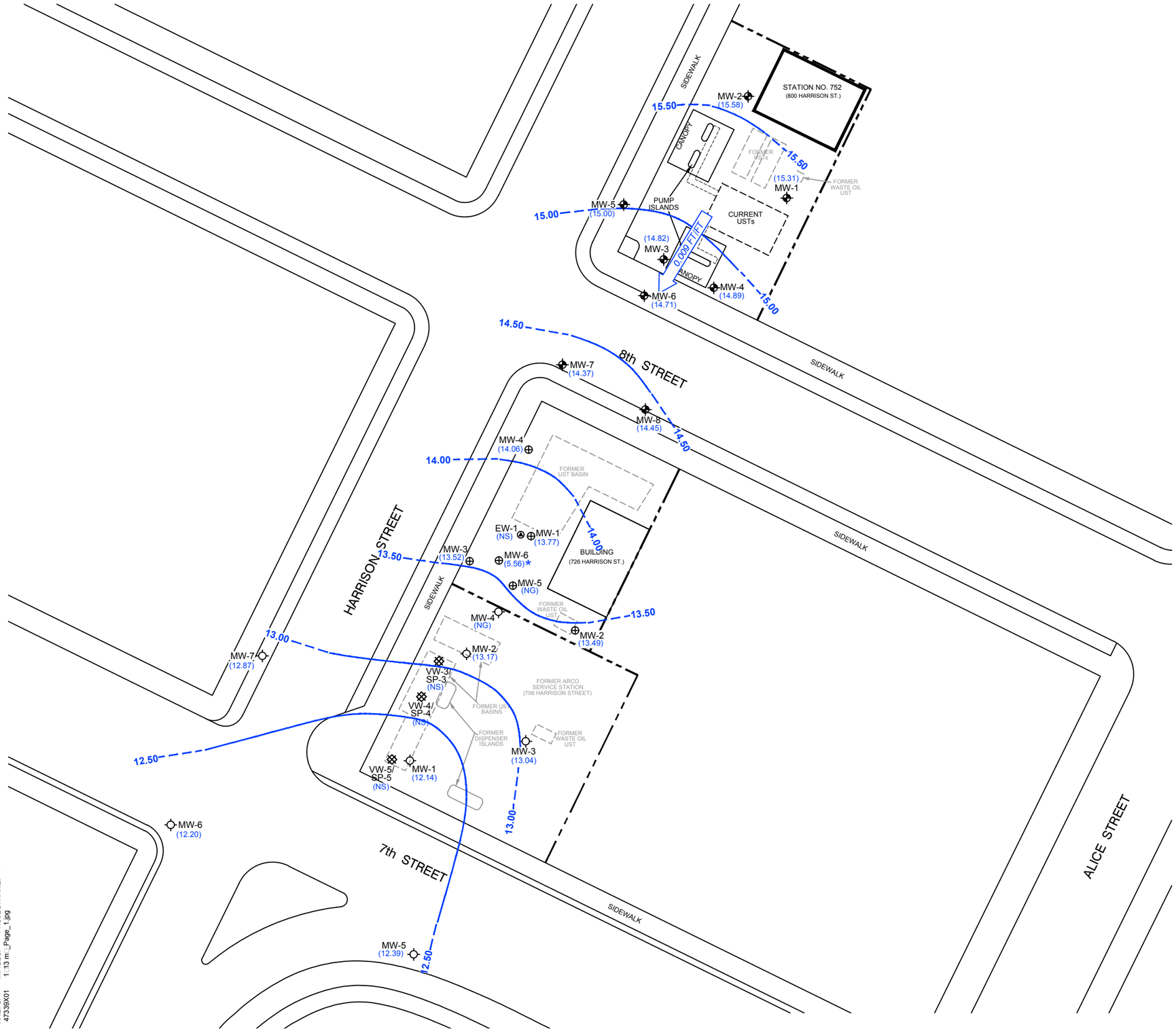

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 GROUNDWATER MONITORING WELL (UNOCAL SITE)
- MW-1 GROUNDWATER MONITORING WELL (YEE SITE)
- EW-1 EXTRACTION WELL (YEE SITE)
- MW-1 GROUNDWATER MONITORING WELL (GIN SITE)
- VW-3/SP-3 SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN SITE)
- (15.31) GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 15.00 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- 0.009 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)
- (NG) NOT GAUGED
- (NS) NO SURVEY DATA AVAILABLE
- * NOT USED IN GROUNDWATER CONTOURING AND GRADIENT CALCULATION

NOTES:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
3. MW-6 - AT 726 HARRISON STREET IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.

0 50' 100'

GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP

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FIGURE 3

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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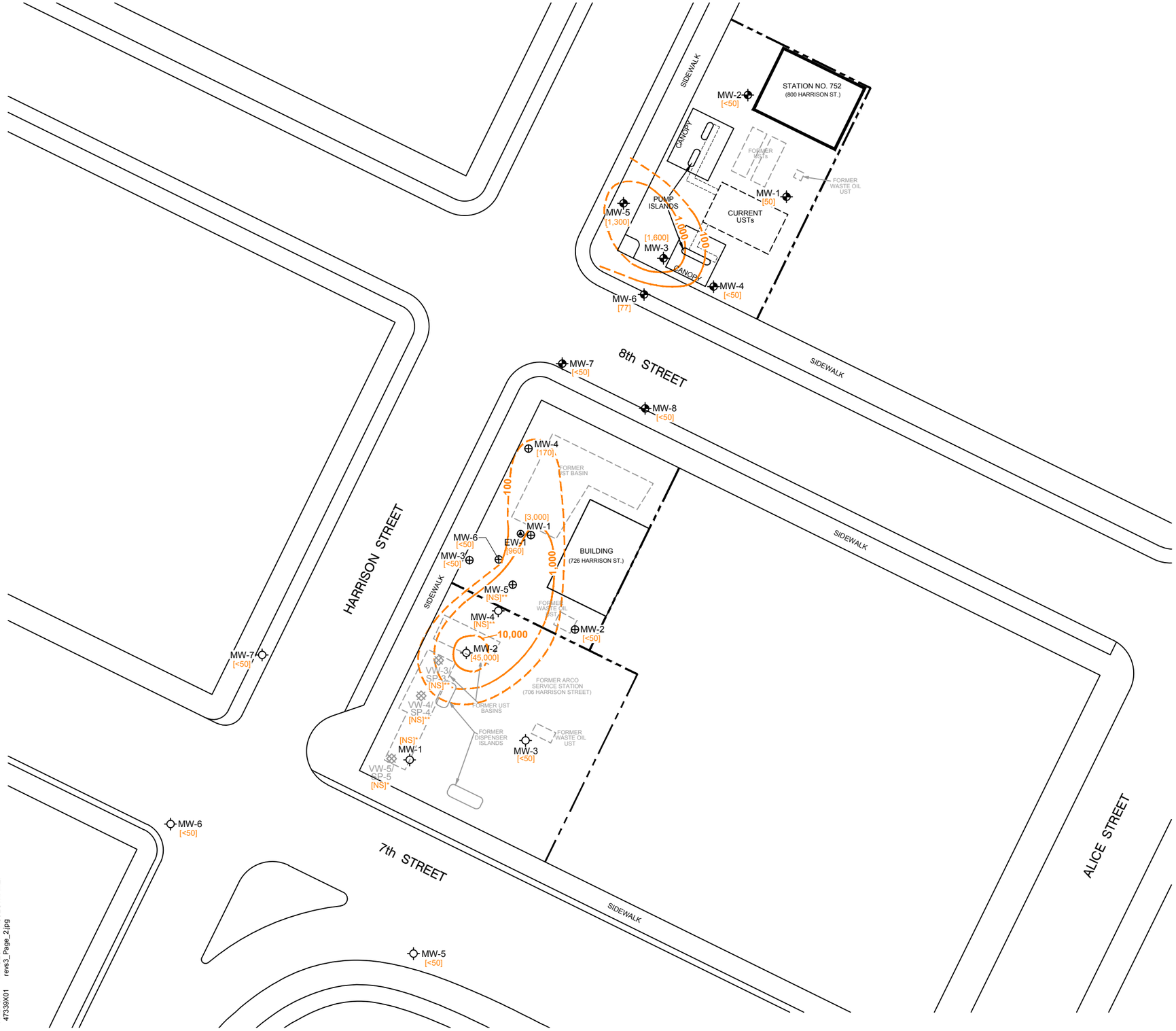

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 GROUNDWATER MONITORING WELL (UNOCAL SITE)
- MW-1 GROUNDWATER MONITORING WELL (YEE SITE)
- EW-1 EXTRACTION WELL (YEE SITE)
- MW-1 GROUNDWATER MONITORING WELL (GIN SITE)
- VW-3/SP-3 SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN SITE)
- [TPPH] TOTAL PURGEABLE PETROLEUM HYDROCARBONS CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 TPPH ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT
- [NS]* NOT SAMPLED DUE TO UNABLE TO LOCATE
- [NS]** NOT SAMPLED DUE TO CAR PARKED ON LOCATION

NOTES:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
3. MW-6 - AT 726 HARRISON STREET IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.

0 50' 100'
GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

TPPH ISOCONCENTRATION CONTOUR MAP

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FIGURE 4

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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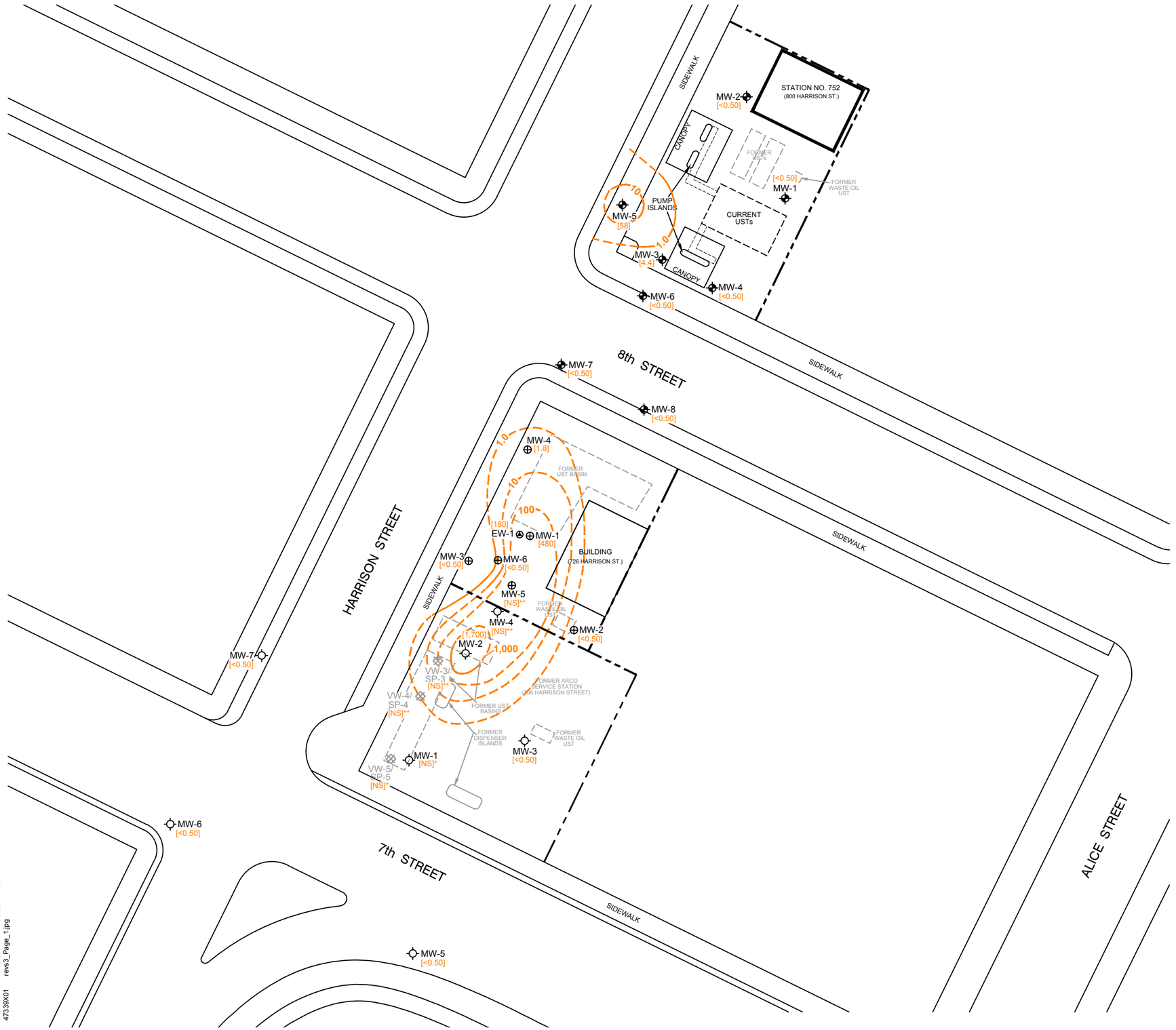

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
- MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
- EW-1 ⊕ EXTRACTION WELL (YEE SITE)
- MW-1 ⊕ GROUNDWATER MONITORING WELL (GIN SITE)
- VW-3/SP-3 ⊗ SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN SITE)
- [BENZ] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 BENZENE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT
- [NS]* NOT SAMPLED DUE TO UNABLE TO LOCATE
- [NS]** NOT SAMPLED DUE TO CAR PARKED ON LOCATION

NOTES:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
3. MW-6 - AT 726 HARRISON STREET IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.

0 50' 100'
GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

BENZENE ISOCONCENTRATION CONTOUR MAP

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FIGURE 5

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
G:\ENVCAD\CostaMesa\RETURN-TO\Petaluma-CA\B004733920130000247339C02.dwg LAYOUT: 5 SAVED: 4/15/2013 10:14 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS_PETALUMA.CTB PLOTTED: 4/15/2013 10:14 AM BY: MURESAN, ELENA
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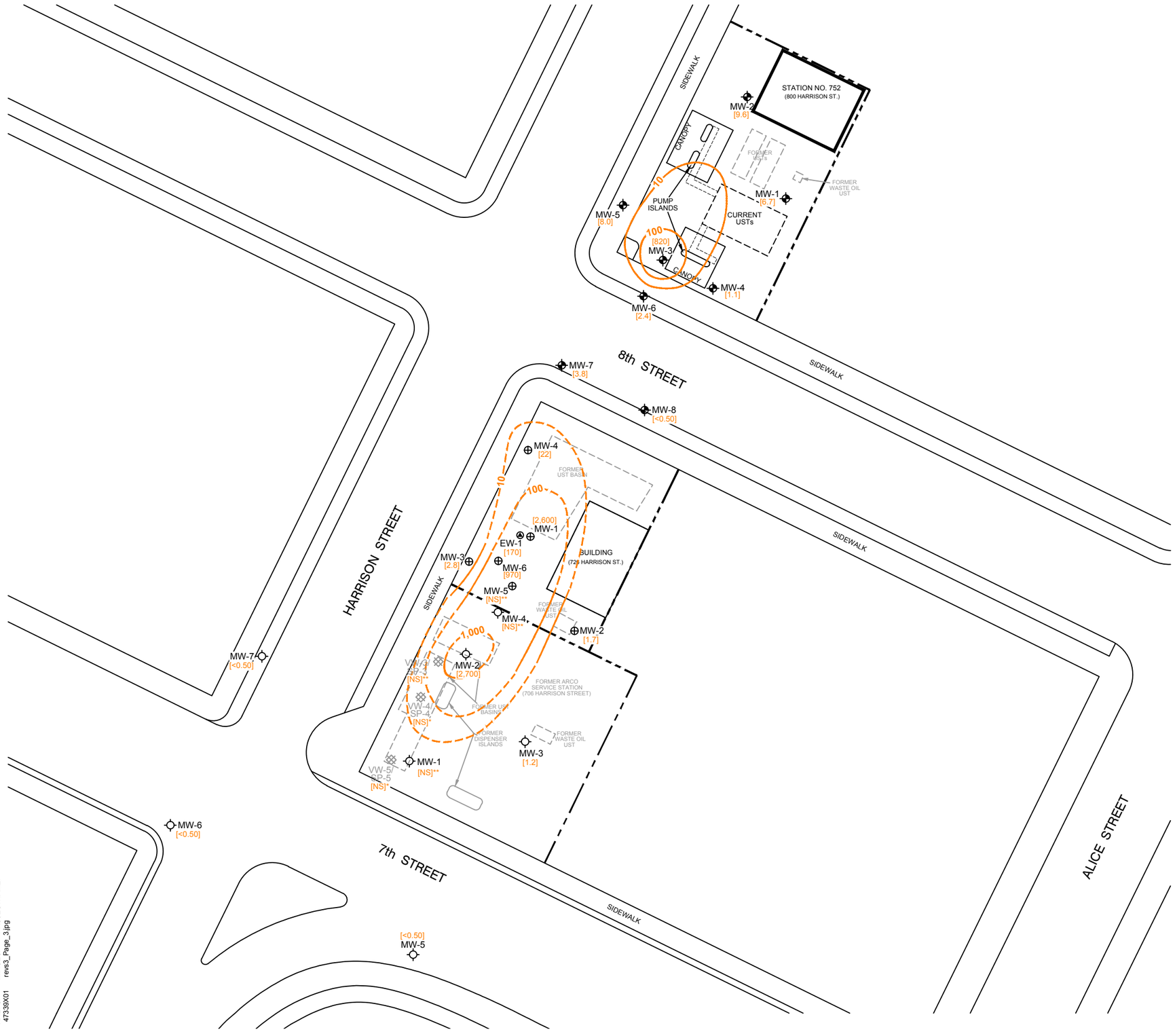

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
- MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
- EW-1 ⊕ EXTRACTION WELL (YEE SITE)
- MW-1 ○ GROUNDWATER MONITORING WELL (GIN SITE)
- VW-3/SP-3 ⊗ SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN SITE)
- [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
- [NS]* NOT SAMPLED DUE TO UNABLE TO LOCATE
- [NS]** NOT SAMPLED DUE TO CAR PARKED ON LOCATION

NOTES:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
3. MW-6 - AT 726 HARRISON STREET IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.

0 50' 100'
GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

MTBE ISOCONCENTRATION MAP

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FIGURE 6

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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Tables

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MC)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
800 Harrison Street																	
MW-1	2/27/2013	34.72	19.41	0.00	15.31	15.58	-0.27	50	<0.50	<0.50	<0.50	<1.0	6.7	<0.50	<0.50	<250	
MW-2	2/27/2013	34.74	19.16	0.00	15.58	15.85	-0.27	<50	<0.50	<0.50	<0.50	<1.0	9.6	<0.50	<0.50	<250	
MW-3	2/27/2013	33.18	18.36	0.00	14.82	15.16	-0.34	1,600	4.4	0.69	2.8	<1.0	820	<0.50	<0.50	<250	A01
MW-4	2/27/2013	32.72	17.83	0.00	14.89	15.17	-0.28	<50	<0.50	<0.50	<0.50	<1.0	1.1	<0.50	<0.50	<250	
MW-5	2/27/2013	32.98	17.98	0.00	15.00	15.25	-0.25	1,300	58	11	2.4	13	8.0	<0.50	<0.50	<250	
MW-6	2/27/2013	32.19	17.48	0.00	14.71	15.02	-0.31	77	<0.50	<0.50	<0.50	<1.0	2.4	<0.50	<0.50	<250	
MW-7	2/27/2013	32.22	17.85	0.00	14.37	14.69	-0.32	<50	<0.50	<0.50	<0.50	<1.0	3.8	<0.50	<0.50	<250	
MW-8	2/27/2013	32.03	17.58	0.00	14.45	14.74	-0.29	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
706 Harrison Street																	
MW-1	2/27/2013	29.17	17.03	0.00	12.14	12.59	-0.45	--	--	--	--	--	--	--	--	--	Parked Car
MW-2	2/27/2013	30.53	17.36	0.00	13.17	13.63	-0.46	45,000	1,700	2,500	1,200	4,900	2,700	<50	1.0	<250	A01
MW-3	2/27/2013	29.79	16.75	0.00	13.04	13.47	-0.43	<50	<0.50	<0.50	<0.50	<1.0	1.2	<0.50	<0.50	<250	
MW-4	2/27/2013	31.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-5	2/27/2013	28.07	15.68	0.00	12.39	12.85	-0.46	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-6	2/27/2013	29.13	16.93	0.00	12.20	12.72	-0.52	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	2/27/2013	29.70	16.83	0.00	12.87	13.32	-0.45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
SP-3	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-4	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
726 Harrison Street																	
EW-1	2/27/2013	*--	18.17	0.00	*--	--	--	960	180	6.0	3.6	12	170	<0.50	<0.50	<250	A01
MW-1	2/27/2013	31.98	18.21	0.00	13.77	14.16	-0.39	3,000	480	26	52	56	2,600	<0.50	<0.50	<250	A01
MW-2	2/27/2013	32.44	18.95	0.00	13.49	13.89	-0.40	<50	<0.50	<0.50	<0.50	<1.0	1.7	<0.50	<0.50	<250	
MW-3	2/27/2013	31.64	18.12	0.00	13.52	13.90	-0.38	<50	<0.50	<0.50	<0.50	<1.0	2.8	<0.50	<0.50	<250	
MW-4	2/27/2013	32.56	18.50	0.00	14.06	14.40	-0.34	170	1.8	<0.50	<0.50	<1.0	22	<0.50	<0.50	<250	
MW-5	2/27/2013	32.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-6	2/27/2013	32.04	26.48	0.00	5.56	3.77	1.79	<50	<0.50	<0.50	<0.50	<1.0	970	<0.50	0.70	<250	A01

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Note

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

Standard Abbreviations

--	not analyzed, measured, or collected
*--	not surveyed
<	not detected at or above laboratory detection limit
TOC	top of casing (surveyed reference elevation)
AMSL	above mean sealevel
DTW	depth to water
btoc	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)

Analytes

TPPH	total purgeable petroleum hydrocarbons (C6-C12)
MTBE	methyl tertiary butyl ether
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane (same as ethylene dichloride)
8260B	EPA Method 8260B for Volatile Organic Compounds
GC/MS	gas chromatography–mass spectrometry for TPPH
A01	PQL's and MDL's are raised due to sample dilution.
J	Estimated Value
PQL	practical quantitation limit
MDL	method detection limit

Table 1A
Additional Groundwater Analytical Results - MNA Parameters
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Methane (mg/l)	Alkalinity as CaCO3 (mg/l)	Nitrate as NO3 (mg/l)	Nitrite as NO2 (mg/l)	Sulfate (mg/l)	Non-Volatile Organic Carbon	Comments
800 Harrison Street								
MW-1	2/27/2013	0.0019	56	1.2	<0.17	9.0	0.87	
MW-2	2/27/2013	0.055	320	16	0.24	160	2.1	
MW-3	2/27/2013	4.4	390	<0.44	<0.17	4.5	4	A01
MW-4	2/27/2013	0.0023	130	9.7	<0.17	25	0.89	
MW-5	2/27/2013	1.9	200	<0.44	<0.17	24	2.1	A01
MW-6	2/27/2013	0.19	99	0.45	<0.17	13	0.75	
MW-7	2/27/2013	0.13	140	<0.44	<0.17	38	1.1	
MW-8	2/27/2013	0.0027	190	<0.44	<0.17	49	2.7	
706 Harrison Street								
MW-1	2/27/2013	--	--	--	--	--	--	Parked Car
MW-2	2/27/2013	4.9	530	<0.44	<0.17	4.1	16	A01, A10
MW-3	2/27/2013	0.0029	130	39	<0.17	52	1.1	
MW-4	2/27/2013	--	--	--	--	--	--	Parked Car
MW-5	2/27/2013	0.0026	150	17	<0.17	46	2.1	
MW-6	2/27/2013	0.0019	190	<0.44	<0.17	60	2.4	
MW-7	2/27/2013	0.0012	260	<0.44	<0.17	56	3.4	
SP-3	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-4	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	--	--	--	--	--	--	Unable to Locate
726 Harrison Street								
EW-1	2/27/2013	0.91	210	0.5	<0.17	10	3.2	A01
MW-1	2/27/2013	0.51	230	<0.44	<0.17	14	6.4	
MW-2	2/27/2013	<0.0010	82	66	<0.17	27	1.1	
MW-3	2/27/2013	0.0012	160	<0.44	<0.17	22	2.0	
MW-4	2/27/2013	0.32	400	<0.44	<0.17	13	4.8	
MW-5	2/27/2013	--	--	--	--	--	--	Parked Car
MW-6	2/27/2013	0.0033	170	6.2	<0.17	25	0.70	

Note

Analytical results given in milligrams per liter (mg/l)

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
mg/l	milligrams per liter (approx. equivalent to parts per million, ppm)

Analytes

CaCO3	calcium carbonate
NO3	nitrate
NO2	nitrogen dioxide
EDC	1,2-dichloroethane (same as ethylene dichloride)
A01	PQL's and MDL's are raised due to sample dilution.
PQL	practical quantitation limit
MDL	method detection limit
A10	PQL's and MDL's were raised due to matrix interference.

Table 1B
Additional Groundwater Analytical Results - VOCs
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Acenaph-thene	Acenaph-thylene	Aldrin	Aniline (Benze-neamine)	Anthra-cene	Benzi-dine	Benzo (a) Anthra-cene	Benzo (b) Fluoran-	Benzo (k) Fluoran-	Benzo (a) Pyrene	Benzo (g,h,i) Perylene	Benzoic Acid	Benzyl Alcohol	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane	bis (2-Chloro-ethoxy)	bis (2-Chloroethyl) ether	bis (2-Ethylhexyl) phthalate	4-Bromo-phenyl-phenylether	4-Chloro-aniline	2-Chloro-naph-thalene	4-Chloro-phenyl phenyl	Chrysene	4,4'-DDD	4,4'-DDE
800 Harrison Street																												
MW-1	2/27/2013	<2.0	<2.0	<2.0	<5.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.0
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
706 Harrison Street																												
MW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726 Harrison Street																												
EW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note
Analytical results given in micrograms per liter (µg/l)

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)

Table 1B
Additional Groundwater A
76 Station 0752/YEE/GIN
706/726/800 Harrison Stre

Well ID	Date Sampled	4,4'-DDT	Dibenz (a,h) anthracen	Dibenzo-furan	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Dieldrin	Diethyl-phthalate	Dimethyl-phthalate	Di-n-butyl-phthalate	2,4-Dinitro-toluene	2,6-Dinitro-toluene	Di-n-octyl-phthalate	1,2-Diphenyl-hydrazin	Endosulfan I (alpha-Endosulfa	Endo-sulfan II	Endo-sulfan Sulfate	Endrin	Endrin Aldehyde	Fluor-anthene	Fluorene	Hepta-chlor	Hepta-chlor Epoxide	Hexa-chloro-benzene	Hexa-chloro-butadiene	Hexachlor o-cyclo-pentadiene	Hexa-chloro-ethane	Indeno (1,2,3-cd)
800 Harrison Street																													
MW-1	2/27/2013	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<3.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
706 Harrison Street																													
MW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726 Harrison Street																													
EW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1B
Additional Groundwater
76 Station 0752/YEE/GIN
706/726/800 Harrison Stre

Well ID	Date Sampled	Iso-phorone	2-Methyl-naph-thlalene	Naph-thalene	2-Naph-thalene-amine	2-Nitro-aniline	3-Nitro-aniline	4-Nitro-aniline	Nitro-benzene	N-Nitro-sodimethyl-amine	N-Nitro-sodi-n-propylamin	N-Nitrosodi-phenylamin e	Phenan-threne	Pyrene	1,2,4-Trichloro-benzene	p-Chloro-m-cresol	2-Chloro-phenol	2,4-Dichloro-phenol	2,4-Dimethyl-phenol	4,6-Dinitro-2-methyl-phenol	2,4-Dinitro-phenol	2-Methyl-phenol	3-/4-Methyl-phenol	2-Nitro-phenol	4-Nitro-phenol	Penta-chloro-phenol	Phenol
800 Harrison Street																											
MW-1	2/27/2013	<2.0	<2.0	<2.0	<20	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<10	<2.0
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
706 Harrison Street																											
MW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726 Harrison Street																											
EW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 1C
Additional Groundwater Analytical Results - Metals
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Dissolved Cadmium	Dissolved Chromium	Dissolved Iron	Dissolved Lead	Dissolved Nickel	Dissolved Zinc	Comments
800 Harrison Street								
MW-1	2/27/2013	<10	<10	<50	<50	<10	<10	
MW-2	2/27/2013	--	--	56	--	--	--	
MW-3	2/27/2013	--	--	8,400	--	--	--	
MW-4	2/27/2013	--	--	<50	--	--	--	
MW-5	2/27/2013	--	--	860	--	--	--	
MW-6	2/27/2013	--	--	<50	--	--	--	
MW-7	2/27/2013	--	--	1,000	--	--	--	
MW-8	2/27/2013	--	--	1,400	--	--	--	
706 Harrison Street								
MW-1	2/27/2013	--	--	--	--	--	--	Parked Car
MW-2	2/27/2013	--	--	9,500	--	--	--	
MW-3	2/27/2013	--	--	<50	--	--	--	
MW-4	2/27/2013	--	--	--	--	--	--	Parked Car
MW-5	2/27/2013	--	--	<50	--	--	--	
MW-6	2/27/2013	--	--	94	--	--	--	
MW-7	2/27/2013	--	--	2,600	--	--	--	
SP-3	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-4	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	--	--	--	--	--	--	Unable to Locate
726 Harrison Street								
EW-1	2/27/2013	--	--	3,100	--	--	--	
MW-1	2/27/2013	--	--	2,000	--	--	--	
MW-2	2/27/2013	--	--	<50	--	--	--	
MW-3	2/27/2013	--	--	<50	--	--	--	
MW-4	2/27/2013	--	--	4,300	--	--	--	
MW-5	2/27/2013	--	--	--	--	--	--	Parked Car
MW-6	2/27/2013	--	--	<50	--	--	--	

Note

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

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)

Table 2
Historical Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MC)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
800 Harrison Street																	
MW-1	2/7/2012	34.72	20.00	0.00	14.72	15.22	-0.50	97	<0.50	<0.50	<0.50	<1.0	8.6	<0.50	<0.50	--	
MW-1	8/9/2012	34.72	19.14	0.00	15.58	14.72	0.86	140	<0.50	<0.50	<0.50	<1.0	18	<0.50	<0.50	<250	
MW-1	2/27/2013	34.72	19.41	0.00	15.31	15.58	-0.27	50	<0.50	<0.50	<0.50	<1.0	6.7	<0.50	<0.50	<250	
MW-2	2/7/2012	34.74	19.77	0.00	14.97	15.42	-0.45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-2	8/9/2012	34.74	18.89	0.00	15.85	14.97	0.88	<50	<0.50	<0.50	<0.50	<1.0	4.7	<0.50	<0.50	<250	
MW-2	2/27/2013	34.74	19.16	0.00	15.58	15.85	-0.27	<50	<0.50	<0.50	<0.50	<1.0	9.6	<0.50	<0.50	<250	
MW-3	2/7/2012	33.18	18.88	0.00	14.30	14.88	-0.58	1,800	6.7	<1.0	1.9	<2.0	1,600	<0.50	<0.50	--	A01
MW-3	8/9/2012	33.18	18.02	0.00	15.16	14.30	0.86	1,400	1.8	<0.50	1.5	<1.0	370	<0.50	<0.50	<250	A01
MW-3	2/27/2013	33.18	18.36	0.00	14.82	15.16	-0.34	1,600	4.4	0.69	2.8	<1.0	820	<0.50	<0.50	<250	A01
MW-4	2/7/2012	32.72	18.38	0.00	14.34	14.87	-0.53	<50	<0.50	<0.50	<0.50	<1.0	1.5	<0.50	<0.50	--	
MW-4	8/9/2012	32.72	17.55	0.00	15.17	14.34	0.83	<50	<0.50	<0.50	<0.50	<1.0	1.3	<0.50	<0.50	<250	
MW-4	2/27/2013	32.72	17.83	0.00	14.89	15.17	-0.28	<50	<0.50	<0.50	<0.50	<1.0	1.1	<0.50	<0.50	<250	
MW-5	2/7/2012	32.98	18.59	0.00	14.39	14.93	-0.54	1,600	58	11	3.0	25	10	<0.50	<0.50	--	A01
MW-5	8/9/2012	32.98	17.73	0.00	15.25	14.39	0.86	1,900	81	18	10	22	19	<0.50	<0.50	<250	A01
MW-5	2/27/2013	32.98	17.98	0.00	15.00	15.25	-0.25	1,300	58	11	2.4	13	8.0	<0.50	<0.50	<250	
MW-6	2/7/2012	32.19	18.02	0.00	14.17	14.71	-0.54	450	<0.50	<0.50	<0.50	<1.0	29	<0.50	<0.50	--	
MW-6	8/9/2012	32.19	17.17	0.00	15.02	14.17	0.85	180	<0.50	<0.50	<0.50	<1.0	10	<0.50	<0.50	<250	
MW-6	2/27/2013	32.19	17.48	0.00	14.71	15.02	-0.31	77	<0.50	<0.50	<0.50	<1.0	2.4	<0.50	<0.50	<250	
MW-7	2/7/2012	32.22	18.40	0.00	13.82	14.39	-0.57	310	25	2	<0.50	3.2	9.0	<0.50	<0.50	--	
MW-7	8/9/2012	32.22	17.53	0.00	14.69	13.82	0.87	280	11	1.2	<0.50	<1.0	24	<0.50	<0.50	<250	
MW-7	2/27/2013	32.22	17.85	0.00	14.37	14.69	-0.32	<50	<0.50	<0.50	<0.50	<1.0	3.8	<0.50	<0.50	<250	
MW-8	2/7/2012	32.03	18.15	0.00	13.88	14.50	-0.62	<50	<0.50	<0.50	<0.50	<1.0	0.75	<0.50	<0.50	--	
MW-8	8/9/2012	32.03	17.29	0.00	14.74	13.88	0.86	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-8	2/27/2013	32.03	17.58	0.00	14.45	14.74	-0.29	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
706 Harrison Street																	
MW-1	2/7/2012	29.17	17.33	0.00	11.84	15.22	-3.38	8,900	1,000	260	230	610	420	<0.50	<0.50	--	A01
MW-1	8/9/2012	29.17	16.58	0.00	12.59	11.84	0.75	2,200	850	110	42	120	84	<5.0	<5.0	<2,500	A01
MW-1	2/27/2013	29.17	17.03	0.00	12.14	12.59	-0.45	--	--	--	--	--	--	--	--	--	Parked Car
MW-2	2/7/2012	30.53	17.90	0.00	12.63	15.42	-2.79	36,000	1,100	3,600	990	4,200	1,600	<5.0	<5.0	--	A01
MW-2	8/9/2012	30.53	16.90	0.00	13.63	12.63	1.00	5,100	810	1,800	440	1,900	4,100	<50	<50	<25,000	A01

Table 2
Historical Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MC)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
MW-2	2/27/2013	30.53	17.36	0.00	13.17	13.63	-0.46	45,000	1,700	2,500	1,200	4,900	2,700	<50	1.0	<250	A01
MW-3	2/7/2012	29.79	17.23	0.00	12.56	14.88	-2.32	<50	<0.50	<0.50	<0.50	<1.0	110	<0.50	<0.50	--	A01
MW-3	8/9/2012	29.79	16.32	0.00	13.47	12.56	0.91	<50	<0.50	<0.50	<0.50	<1.0	0.80	<0.50	<0.50	<250	
MW-3	2/27/2013	29.79	16.75	0.00	13.04	13.47	-0.43	<50	<0.50	<0.50	<0.50	<1.0	1.2	<0.50	<0.50	<250	
MW-4	2/7/2012	31.20	18.43	0.00	12.77	14.87	-2.10	1,800	140	15	21	32	430	<0.50	<0.50	--	A01
MW-4	8/9/2012	31.20	--	--	--	12.77	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-4	2/27/2013	31.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-5	2/7/2012	28.07	16.45	0.00	11.62	14.93	-3.31	<50	<0.50	<0.50	<0.50	1.6	190	<0.50	<0.50	--	A01
MW-5	8/9/2012	28.07	15.22	0.00	12.85	11.62	1.23	<50	<0.50	<0.50	<0.50	<1.0	13	<0.50	<0.50	<250	
MW-5	2/27/2013	28.07	15.68	0.00	12.39	12.85	-0.46	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-6	2/7/2012	29.13	17.51	0.00	11.62	14.71	-3.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-6	8/9/2012	29.13	16.41	0.00	12.72	11.62	1.10	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-6	2/27/2013	29.13	16.93	0.00	12.20	12.72	-0.52	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	2/7/2012	29.70	17.40	0.00	12.30	14.39	-2.09	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-7	8/9/2012	29.70	16.38	0.00	13.32	12.30	1.02	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	2/27/2013	29.70	16.83	0.00	12.87	13.32	-0.45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
SP-3	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-4	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	*--	--	--	*--	--	--	--	--	--	--	--	--	--	--	--	Unable to Locate
726 Harrison Street																	
EW-1	2/27/2013	*--	18.17	0.00	*--	--	--	960	180	6.0	3.6	12	170	<0.50	<0.50	<250	A01
MW-1	2/7/2012	31.98	18.77	0.00	13.21	15.22	-2.01	370	46	1.7	4.2	4.5	3,800	<0.50	<0.50	--	A01
MW-1	8/9/2012	31.98	17.82	0.00	14.16	13.21	0.95	6600	760	27	58	60	6,700	<0.50	<0.50	--	A01
MW-1	2/27/2013	31.98	18.21	0.00	13.77	14.16	-0.39	3,000	480	26	52	56	2,600	<0.50	<0.50	<250	A01
MW-2	2/7/2012	32.44	19.52	0.00	12.92	15.42	-2.50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-2	8/9/2012	32.44	18.55	0.00	13.89	12.92	0.97	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	--	
MW-2	2/27/2013	32.44	18.95	0.00	13.49	13.89	-0.40	<50	<0.50	<0.50	<0.50	<1.0	1.7	<0.50	<0.50	<250	
MW-3	2/7/2012	31.64	18.71	0.00	12.93	14.88	-1.95	25	<0.50	<0.50	<0.50	<1.0	2.1	<0.50	<0.50	--	J
MW-3	8/9/2012	31.64	17.74	0.00	13.90	12.93	0.97	39	<0.50	<0.50	<0.50	<1.0	9.2	<0.50	<0.50	--	J
MW-3	2/27/2013	31.64	18.12	0.00	13.52	13.90	-0.38	<50	<0.50	<0.50	<0.50	<1.0	2.8	<0.50	<0.50	<250	

Table 2
Historical Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet	DTW (feet btoc)	LPH Thickness (feet)	GW Elevation (feet	Previous Quarter GWE (feet AMSL)	Change in Elevation (feet)	TPPH (8015B-GC/MC)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Ethanol	Comments
MW-4	2/7/2012	32.56	19.09	0.00	13.47	14.87	-1.40	210	<0.50	<0.50	<0.50	<1.0	17	<0.50	<0.50	--	
MW-4	8/9/2012	32.56	18.16	0.00	14.40	13.47	0.93	280	2	<0.50	<0.50	<1.0	21	<0.50	<0.50	--	
MW-4	2/27/2013	32.56	18.50	0.00	14.06	14.40	-0.34	170	1.8	<0.50	<0.50	<1.0	22	<0.50	<0.50	<250	
MW-5	2/7/2012	32.06	19.16	0.00	12.90	14.93	-2.03	19,000	890	410	360	990	17,000	<6.2	<6.2	--	A01
MW-5	8/9/2012	32.06	18.24	0.00	13.82	12.90	0.92	16,000	1,400	580	470	960	16,000	<5.0	<5.0	--	A01
MW-5	2/27/2013	32.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Parked Car
MW-6	2/7/2012	32.04	26.53	0.00	5.51	14.71	-9.20	410	<0.50	<0.50	<0.50	<1.0	970	<0.50	0.79	--	A01
MW-6	8/9/2012	32.04	28.27	0.00	3.77	5.51	-1.74	830	<0.50	<0.50	<0.50	<1.0	970	<0.50	1.2	--	A01
MW-6	2/27/2013	32.04	26.48	0.00	5.56	3.77	1.79	<50	<0.50	<0.50	<0.50	<1.0	970	<0.50	0.70	<250	A01

Note

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

Standard Abbreviations

--	not analyzed, measured, or collected
*--	not surveyed
<	not detected at or above laboratory detection limit
TOC	top of casing (surveyed reference elevation)
AMSL	above mean sealevel
DTW	depth to water
btoc	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)

Analytes

TPPH	total purgeable petroleum hydrocarbons
MTBE	methyl tertiary butyl ether
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane (same as ethylene dichloride)
8260B	EPA Method 8260B for Volatile Organic Compounds
GC/MS	gas chromatography–mass spectrometry for TPPH
A01	PQL's and MDL's are raised due to sample dilution.

Table 2A
Historical Additional Groundwater Analytical Results - MNA Parameters
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Methane (mg/l)	Alkalinity as CaCO3 (mg/l)	Nitrate as NO3 (mg/l)	Nitrite as NO2 (mg/l)	Sulfate (mg/l)	Non-Volatile Organic Carbon	Comments
800 Harrison Street								
MW-1	8/9/2012	0.026	69	1.9	<0.17	10	1.6	
MW-1	2/27/2013	0.0019	56	1.2	<0.17	9.0	0.87	
MW-2	8/9/2012	0.076	190	19	0.38	130	1.4	
MW-2	2/27/2013	0.055	320	16	0.24	160	2.1	
MW-3	8/9/2012	6.3	290	<0.44	<0.17	3.5	2.9	A01, S01
MW-3	2/27/2013	4.4	390	<0.44	<0.17	4.5	4	A01
MW-4	8/9/2012	0.031	98	4.3	<0.17	22	0.90	
MW-4	2/27/2013	0.0023	130	9.7	<0.17	25	0.89	
MW-5	8/9/2012	2.9	140	<0.44	<0.17	2.5	1.7	A01
MW-5	2/27/2013	1.9	200	<0.44	<0.17	24	2.1	A01
MW-6	8/9/2012	0.18	130	<0.44	<0.17	16	1.0	A01
MW-6	2/27/2013	0.19	99	0.45	<0.17	13	0.75	
MW-7	8/9/2012	0.43	180	<0.44	<0.17	17	2.7	A01
MW-7	2/27/2013	0.13	140	<0.44	<0.17	38	1.1	
MW-8	8/9/2012	0.0041	130	1.3	<0.17	37	1.6	
MW-8	2/27/2013	0.0027	190	<0.44	<0.17	49	2.7	
706 Harrison Street								
MW-1	8/9/2012	0.28	250	<0.44	<0.17	51	7.3	A01
MW-1	2/27/2013	--	--	--	--	--	--	Parked Car
MW-2	8/9/2012	6.8	500	<0.44	<0.17	<1.0	15	A01, S01
MW-2	2/27/2013	4.9	530	<0.44	<0.17	4.1	16	A01, A10
MW-3	8/9/2012	<0.0010	130	43	<0.17	61	1.4	
MW-3	2/27/2013	0.0029	130	39	<0.17	52	1.1	
MW-4	8/9/2012	--	--	--	--	--	--	Parked Car
MW-4	2/27/2013	--	--	--	--	--	--	Parked Car
MW-5	8/9/2012	<0.0010	150	19	<0.17	49	2.0	
MW-5	2/27/2013	0.0026	150	17	<0.17	46	2.1	
MW-6	8/9/2012	0.0082	140	<0.44	<0.17	27	1.9	
MW-6	2/27/2013	0.0019	190	<0.44	<0.17	60	2.4	
MW-7	8/9/2012	0.0045	230	<0.44	<0.17	49	3.0	
MW-7	2/27/2013	0.0012	260	<0.44	<0.17	56	3.4	
SP-3	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-4	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	--	--	--	--	--	--	Unable to Locate

Table 2A
Historical Additional Groundwater Analytical Results - MNA Parameters
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Methane (mg/l)	Alkalinity as CaCO3 (mg/l)	Nitrate as NO3 (mg/l)	Nitrite as NO2 (mg/l)	Sulfate (mg/l)	Non-Volatile Organic Carbon	Comments
726 Harrison Street								
EW-1	2/27/2013	0.91	210	0.5	<0.17	10	3.2	A01
MW-1	8/9/2012	--	--	--	--	--	--	
MW-1	2/27/2013	0.51	230	<0.44	<0.17	14	6.4	
MW-2	8/9/2012	--	--	--	--	--	--	
MW-2	2/27/2013	<0.0010	82	66	<0.17	27	1.1	
MW-3	8/9/2012	--	--	--	--	--	--	
MW-3	2/27/2013	0.0012	160	<0.44	<0.17	22	2.0	
MW-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	0.32	400	<0.44	<0.17	13	4.8	
MW-5	8/9/2012	--	--	--	--	--	--	
MW-5	2/27/2013	--	--	--	--	--	--	Parked Car
MW-6	8/9/2012	--	--	--	--	--	--	
MW-6	2/27/2013	0.0033	170	6.2	<0.17	25	0.70	

Note

Analytical results given in milligrams per liter (mg/l)

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
mg/l	milligrams per liter (approx. equivalent to parts per million, ppm)

Analytes

CaCO3	calcium carbonate
NO3	nitrate
NO2	nitrogen dioxide
EDC	1,2-dichloroethane (same as ethylene dichloride)
A01	PQL's and MDL's are raised due to sample dilution.
PQL	practical quantitation limit
MDL	method detection limit
A10	PQL's and MDL's were raised due to matrix interference.
S01	sample result is not within the quantitation range of the method.

Table 2B
Historical Additional Groundwater Analytical Results - VOCs
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Acenaph-thene	Acenaph-thylene	Aldrin	Aniline (Benze-neamine)	Anthra-cene	Benzi-dine	Benzo (a) Anthra-cene	Benzo (b) Fluoran-	Benzo (k) Fluoran-	Benzo (a) Pyrene	Benzo (g,h,i) Perylene	Benzoic Acid	Benzyl Alcohol	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane	bis (2-Chloro-ethoxy)	bis (2-Chloroethyl) ether	bis (2-Ethylhexyl) phthalate	4-Bromo-phenyl-phenylether	4-Chloro-aniline	2-Chloro-naph-thalene	4-Chloro-phenyl phenyl	Chrysene	4,4'-DDD	4,4'-DDE
800 Harrison Street																												
MW-1	2/7/2012	<2.0	<2.0	<2.0	<5.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.0
MW-1	8/9/2012	<2.0	<2.0	<2.0	<5.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.0
MW-1	2/27/2013	<2.0	<2.0	<2.0	<5.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.0
MW-2	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note

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

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)

Table 2B
Historical Additional Gro
76 Station 0752/YEE/GIN
706/726/800 Harrison Stre

Well ID	Date Sampled	4,4'-DDT	Dibenz (a,h) anthracen	Dibenzo-furan	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Dieldrin	Diethyl-phthalate	Dimethyl-phthalate	Di-n-butyl-phthalate	2,4-Dinitro-toluene	2,6-Dinitro-toluene	Di-n-octyl-phthalate	1,2-Diphenyl-hydrazin	Endosulfan I (alpha-Endosulfa	Endo-sulfan II	Endo-sulfan Sulfate	Endrin	Endrin Aldehyde	Fluor-anthene	Fluorene	Hepta-chlor	Hepta-chlor Epoxide	Hexa-chloro-benzene	Hexa-chloro-butadiene	Hexachlor o-cyclo-pentadiene	Hexa-chloro-ethane	Indeno (1,2,3-cd)
800 Harrison Street																													
MW-1	2/7/2012	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<3.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-1	8/9/2012	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<3.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-1	2/27/2013	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<3.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2B
Historical Additional Gro
76 Station 0752/YEE/GIN
706/726/800 Harrison Stre

Well ID	Date Sampled	Iso-phorone	2-Methyl-naph-thlalene	Naph-thalene	2-Naph-thalene-amine	2-Nitro-aniline	3-Nitro-aniline	4-Nitro-aniline	Nitro-benzene	N-Nitro-sodimethyl-amine	N-Nitro-sodi-n-propylamin	N-Nitrosodi-phenylamine	Phenan-threne	Pyrene	1,2,4-Trichloro-benzene	p-Chloro-m-cresol	2-Chloro-phenol	2,4-Dichloro-phenol	2,4-Dimethyl-phenol	4,6-Dinitro-2-methyl-phenol	2,4-Dinitro-phenol	2-Methyl-phenol	3-/4-Methyl-phenol	2-Nitro-phenol	4-Nitro-phenol	Penta-chloro-phenol	Phenol
800 Harrison Street																											
MW-1	2/7/2012	<2.0	<2.0	<2.0	<20	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<10	<2.0
MW-1	8/9/2012	<2.0	<2.0	<2.0	<20	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<10	<2.0
MW-1	2/27/2013	<2.0	<2.0	<2.0	<20	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<10	<2.0
MW-2	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2C
Historical Additional Groundwater Analytical Results - Metals
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Dissolved Cadmium	Dissolved Chromium	Dissolved Iron	Dissolved Lead	Dissolved Nickel	Dissolved Zinc	Comments
800 Harrison Street								
MW-1	2/7/2012	<10	<10	--	<50	<10	<10	
MW-1	8/9/2012	<10	<10	<50	<50	<10	<10	
MW-1	2/27/2013	<10	<10	<50	<50	<10	<10	
MW-2	2/7/2012	--	--	--	--	--	--	
MW-2	8/9/2012	--	--	2,200	--	--	--	
MW-2	2/27/2013	--	--	56	--	--	--	
MW-3	2/7/2012	--	--	--	--	--	--	
MW-3	8/9/2012	--	--	5,700	--	--	--	
MW-3	2/27/2013	--	--	8,400	--	--	--	
MW-4	2/7/2012	--	--	--	--	--	--	
MW-4	8/9/2012	--	--	<50	--	--	--	
MW-4	2/27/2013	--	--	<50	--	--	--	
MW-5	2/7/2012	--	--	--	--	--	--	
MW-5	8/9/2012	--	--	860	--	--	--	
MW-5	2/27/2013	--	--	860	--	--	--	
MW-6	2/7/2012	--	--	--	--	--	--	
MW-6	8/9/2012	--	--	160	--	--	--	
MW-6	2/27/2013	--	--	<50	--	--	--	
MW-7	2/7/2012	--	--	--	--	--	--	
MW-7	8/9/2012	--	--	670	--	--	--	
MW-7	2/27/2013	--	--	1,000	--	--	--	
MW-8	2/7/2012	--	--	--	--	--	--	
MW-8	8/9/2012	--	--	680	--	--	--	
MW-8	2/27/2013	--	--	1,400	--	--	--	
706 Harrison Street								
MW-1	8/9/2012	--	--	830	--	--	--	
MW-1	2/27/2013	--	--	--	--	--	--	Parked Car
MW-2	8/9/2012	--	--	6,900	--	--	--	
MW-2	2/27/2013	--	--	9,500	--	--	--	
MW-3	8/9/2012	--	--	<50	--	--	--	
MW-3	2/27/2013	--	--	<50	--	--	--	
MW-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	--	--	--	--	--	--	Parked Car
MW-5	8/9/2012	--	--	<50	--	--	--	
MW-5	2/27/2013	--	--	<50	--	--	--	
MW-6	8/9/2012	--	--	<50	--	--	--	
MW-6	2/27/2013	--	--	94	--	--	--	

Table 2C
Historical Additional Groundwater Analytical Results - Metals
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	Dissolved Cadmium	Dissolved Chromium	Dissolved Iron	Dissolved Lead	Dissolved Nickel	Dissolved Zinc	Comments
MW-7	8/9/2012	--	--	860	--	--	--	
MW-7	2/27/2013	--	--	2,600	--	--	--	
SP-3	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-4	2/27/2013	--	--	--	--	--	--	Unable to Locate
SP-5	2/27/2013	--	--	--	--	--	--	Unable to Locate
726 Harrison Street								
EW-1	2/27/2013	--	--	3,100	--	--	--	
MW-1	8/9/2012	--	--	--	--	--	--	
MW-1	2/27/2013	--	--	2,000	--	--	--	
MW-2	8/9/2012	--	--	--	--	--	--	
MW-2	2/27/2013	--	--	<50	--	--	--	
MW-3	8/9/2012	--	--	--	--	--	--	
MW-3	2/27/2013	--	--	<50	--	--	--	
MW-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	--	--	4,300	--	--	--	
MW-5	8/9/2012	--	--	--	--	--	--	
MW-5	2/27/2013	--	--	--	--	--	--	Parked Car
MW-6	8/9/2012	--	--	--	--	--	--	
MW-6	2/27/2013	--	--	<50	--	--	--	

Note

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

Standard Abbreviations

µg/l micrograms per liter (approx. equivalent to parts per billion, ppb)

ARCADIS

Attachment A

Field Data Sheets and General Procedures

GETTLER-RYAN INC.

TRANSMITTAL

March 11, 2013
G-R #385647

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

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

RE: Chevron Facility
#351646/0752
800 Harrison Street
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **First Semi-Annual Event of February 27, 2013**

COMMENTS:

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

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

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

trans/351646 0752

WELL CONDITION STATUS SHEET

Client/ Facility #: Chevron #351646 / 0752
Site Address: 800 Harrison Street
City: Oakland, CA

Job #: 385647
Event Date: 2-27-13
Sampler: AW / AM

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-3	OK									Emco / 12" / 2	
MW-6	OK			3S	OK					BL / 8" / 3	
A-MW-1	OK			2S	OK					Morrison / 8" / 2	
A-MW-2	OK*	OK								Brichard Kilman / 8" / 3	
A-MW-3	OK		1B R-2	~~1B~~						↓	
A-MW-4				UTA							
SP-3				UTL							
SP-4				UTL							
SP-5				UTL							
S-MW-1	OK		3R	3S	OK					BL / 8" / 3	
S-MW-2	OK		2B in flange	OK						Morrison 8" / 2	
S-MW-3	OK			2S	OK					1 ↓	
S-MW-4	OK			2S	OK					↓	
S-MW-5				UTA							
S-MW-6	OK									Morrison / 12" / 2	
S-BW-1	OK									↓	

Comments: * Lid & frame loose.

WELL CONDITION STATUS SHEET

Client/ Facility #: Chevron #351646 / 0752
Site Address: 800 Harrison Street
City: Oakland, CA

Job #: 385647
Event Date: 2.27.13
Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y
MW-1	OK							N	N	EMCO | 12" | 2	
MW-2	OK			S=1	OK			N	N	UNIVERSAL | 8" | 2	
MW-4	OK							N	N	EMCO | 12" | 2	
MW-5	OK							N	N		
MW-7	OK							N	N		
MW-8	OK							N	N	BRAINARD-KILLMAN | 8" | 3	
A-MW-5	OK	NA	NA	NA	OK			Y	Y	CHRISTY BOX	
A-MW-6	OK	NA	NA	NA	OK			Y	Y		
A-MW-7	OK	NA	NA	NA	OK			Y	N		

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2.27.13 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-1 Date Monitored: 2.27.13
Well Diameter 2 in.
Total Depth 33.50 ft.
Depth to Water 19.41 ft.

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

☐ Check if water column is less then 0.50 ft.

14.09 xVF .17 = 2.39 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.22

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
QED Bladder Pump			
Other:			

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

Start Time (purge): 1245 Weather Conditions: SUNNY
Sample Time/Date: 1315 / 2-27-13 Water Color: BRN. Odor: (Y) / N MODERATE
Approx. Flow Rate: ✓ gpm. Sediment Description: S-SILTY
Did well de-water? ND If yes, Time: Volume: gal. DTW @ Sampling: 19.52

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (mS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
1250	2.5	7.22	862	19.7	PRE: 1.1	PRE: -24	PRE: 56
1255	5.0	7.19	868	20.0			
1300	7.0	7.16	872	20.5			
					POST: 1.2	POST: -30	POST: 64

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	2 x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	1 x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Emco 12" OIC

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-2 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth 30.78 ft.
Depth to Water 19.16 ft.

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

☐ Check if water column is less then 0.50 ft.

11.62 xVF .17 = 1.97 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.48

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

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

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

Start Time (purge): 1200 Weather Conditions: SUNNY
Sample Time/Date: 1222 / 2.27.13 Water Color: BRN. Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 19.24

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
1204	2.0	7.08	510	19.7	PRE: 1.9	PRE: 42	PRE: 86
1208	4.0	7.05	506	19.9			
1212	6.0	7.02	500	20.3			
					POST: 1.8	POST: 53	POST: 94

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: UNIVERSAL 8" (ISF)

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 02-27-13 (inclusive)
City: Oakland, CA | Sampler: AM / AW

Well ID MW-3 | Date Monitored:
Well Diameter 2 in.
Total Depth 30.50 ft.
Depth to Water 18.36 ft.

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

☐ Check if water column is less then 0.50 ft.

12.14 xVF .17 = 2.06 x3 case volume = Estimated Purge Volume: 6.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.78

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1350 | Weather Conditions: SUNNY
Sample Time/Date: 1420 / 02-27-13 | Water Color: CLOUDY | Odor (Y) N | SLIGHT
Approx. Flow Rate: - gpm. | Sediment Description: CLOUDY
Did well de-water? N | If yes, Time: - | Volume: - gal. | DTW @ Sampling: 20.29

Time (2400 hr.)	Volume (gal.)	pH	Conductivity MS (µmhos/cm - ~~µS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY NTU
1355	2.5	7.04	0.77	19.8	PRE: 1.4	PRE: 32	PRE: 17.0
~~1400~~ 1400	~~4.5~~ 4.5	7.96	0.77	19.8			
1405	6.5	7.10	.78	19.7			
					POST: 1.6	POST: 14	POST: 320

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: FMC0 /12"/2 -OK

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27.13 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-4 Date Monitored: 2.27.13
Well Diameter 2 in.
Total Depth 32.00 ft.
Depth to Water 17.83 ft.

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

☐ Check if water column is less then 0.50 ft.

14.17 xVF .17 = 2.40 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.66

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

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

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

Start Time (purge): 1100 Weather Conditions: SUNNY
Sample Time/Date: 1125 / 2.27.13 Water Color: BRN. Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. Sediment Description: S-SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 17.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
1105	2.5	7.39	522	19.8	PRE: 1.7	PRE: 6	PRE: 74
1110	5.0	7.36	519	20.1			
1115	7.0	7.33	514	20.5			
					POST: 1.6	POST: 17	POST: 84

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: EMCO 12" OIL

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 2.27.13 (inclusive)
City: Oakland, CA | Sampler: FS

Well ID: MW-5 | Date Monitored: 2.27.13
Well Diameter: 2 in.
Total Depth: 31.62 ft.
Depth to Water: 17.98 ft.

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

☐ Check if water column is less then 0.50 ft.

13.64 xVF .17 = 2.31 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.70

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

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

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

Start Time (purge): 1335 | Weather Conditions: SUNNY
Sample Time/Date: 1405 / 2.27.13 | Water Color: LT. BRN. | Odor: Ø / N SLIGHT
Approx. Flow Rate: ✓ gpm. | Sediment Description: S. SILTY
Did well de-water? No | If yes, Time: | Volume: gal. | DTW @ Sampling: 18.08

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (Ø / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
1340	2.5	7.02	721	20.2	PRE: 1.9	PRE: 41	PRE: 60
1345	5.0	6.99	725	20.6			
1350	7.0	6.96	731	20.9			
					POST: 1.7	POST: 51	POST: 72

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: EMCO 12" OIL

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 2-27-13 (inclusive)
City: Oakland, CA | Sampler: AW / AM

Well ID: MW-6 | Date Monitored: 2-27-13
Well Diameter: 2 in.
Total Depth: 30.85 ft.
Depth to Water: 17.48 ft.

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

☐ Check if water column is less then 0.50 ft.

13.37 xVF .17 = 2.27 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.15

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1300 | Weather Conditions: Sunny
Sample Time/Date: 1340 / 2-27-13 | Water Color: Cloudy | Odor: Y (N)
Approx. Flow Rate: — gpm. | Sediment Description: Cloudy
Did well de-water? N | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 19.44

Time (2400 hr.)	Volume (gal.)	pH	Conductivity MS (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY (NTU)
1308	2.5	7.72	0.22	19.2	PRE: 1.1	PRE: 9	PRE: 35.0
1315	5.0	7.58	0.28	19.5			
1322	7.0	7.42	0.38	19.7			
					POST: 1.5	POST: -1	POST: 220

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: BL/8"/3S

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 2.27.13 (inclusive)
City: Oakland, CA | Sampler: FT

Well ID: MW-7 | Date Monitored: 2.27.13
Well Diameter: 2 in.
Total Depth: 31.38 ft.
Depth to Water: 17.85 ft.

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

☐ Check if water column is less then 0.50 ft.

13.53 xVF .17 = 2.30 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.55

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
QED Bladder Pump			
Other:			

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

Start Time (purge): 0650 | Weather Conditions: CLOUDY / SUNNY
Sample Time/Date: 0715 / 2.27.13 | Water Color: LT. BRN. | Odor: Ⓨ / N | S. SILTY
Approx. Flow Rate: / gpm. | Sediment Description:
Did well de-water? NO | If yes, Time: | Volume: gal. | DTW @ Sampling: 17.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (Ⓒ / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0655	2.5	7.10	826	16.7	PRE: 1.3	PRE: -25	PRE: 68
0700	5.0	7.07	831	17.0			
0705	7.0	7.05	836	17.3			
					POST: 1.2	POST: -31	POST: 75

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: EMCO 12" OIL

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 2.27.13 (inclusive)
City: Oakland, CA | Sampler: ET

Well ID: MW-8 | Date Monitored: 2.27.13
Well Diameter: 2 in.
Total Depth: 28.35 ft.
Depth to Water: 17.58 ft. ☐ Check if water column is less then 0.50 ft.

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

10.77 xVF .17 = 1.83 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.73

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

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

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

Start Time (purge): 0615 | Weather Conditions: SUNNY
Sample Time/Date: 0635 / 2.27.13 | Water Color: BRN. | Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. | Sediment Description: SILTY
Did well de-water? ND | If yes, Time: | Volume: gal. | DTW @ Sampling: 17.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0618	1.5	7.39	495	16.2	PRE: 2.4	PRE: 52	PRE: 324
0621	3.0	7.36	500	16.5			
0625	5.0	7.34	507	16.9			
					POST: 2.3	POST: 60	POST: 300

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: BRAINARD KILMAN 8" OK

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: AW AM

Well ID A-MW-1 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth 24.39 ft.
Depth to Water 17.03 ft.

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

☐ Check if water column is less then 0.50 ft.

7.36 xVF .17 = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Unable to sample, well under car. Unable to drop bailer into water.
pm/to
Morrison 3/5/25

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752
Job Number: 385647
Site Address: 800 Harrison Street
Event Date: 2-27-13 (inclusive)
City: Oakland, CA
Sampler: AW /AM

Well ID: A-MW-2
Date Monitored: 2-27-13
Well Diameter: 2 in.
Total Depth: 24.84 ft.
Depth to Water: 17.36 ft.

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

☐ Check if water column is less then 0.50 ft.

7.48 xVF .17 = 1.27 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.85

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

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

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

Start Time (purge): 1110
Weather Conditions: Sunny
Sample Time/Date: 1140 / 2-27-13
Water Color: Cloudy
Odor: (Y) / N Strong
Approx. Flow Rate: — gpm.
Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 18.19

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μmhos/cm - ~~μS~~ MS)	Temperature (©/ F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
1115	1.5	6.98	0.92	18.6	PRE: 0.8	PRE: 49	PRE: 8.3 NTU
1120	3.0	7.03	0.90	18.9			
1125	4.0	7.11	0.85	19.2			
					POST: 1.3	POST: 32	POST: 500

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-MW-2	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Brainerd Almon / 8"/3
Lid & frame loose

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 2-27-13 (inclusive)
City: Oakland, CA | Sampler: HW / AM

Well ID A-MW-3 | Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth 27.47 ft.
Depth to Water 16.75 ft.

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

☐ Check if water column is less then 0.50 ft.

10.72 xVF .17 = 1.82 x3 case volume = Estimated Purge Volume: 5.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.89

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1155 | Weather Conditions: Sunny
Sample Time/Date: 1225 / 2-27-13 | Water Color: Cloudy | Odor: (Y) N Slight
Approx. Flow Rate: — gpm. | Sediment Description: Cloudy
Did well de-water? N | If yes, Time: — Volume: — gal. DTW @ Sampling: 18.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
1200	2.0	7.37	0.45	18.8	PRE: 0.8	PRE: -2	PRE: 3.9 NTU
1205	4.0	7.30	0.51	18.7			
1240	5.5	7.26	0.58	18.6			
					POST: 1.2	POST: 7	POST: 280

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-MW-3	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Brainard Kilman / 8"/ IB

Add/Replaced Gasket: _____ Add/Replaced Bolt: 2 Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: AW

Well ID A-MW-4 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth 25.58 ft.
Depth to Water N/A ft.

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

☐ Check if water column is less then 0.50 ft.

____ xVF .17 = ____ x3 case volume = Estimated Purge Volume: ____ gal.

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Unable to access, parked over.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 2.27.13 (inclusive)
City: Oakland, CA | Sampler: FT

Well ID: A-MW-5 | Date Monitored: 2.27.13
Well Diameter: 2 in.
Total Depth: 28.18 ft.
Depth to Water: 15.68 ft. ☐ Check if water column is less then 0.50 ft.

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

12.50 xVF .17 = 2.12 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.18

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
QED Bladder Pump			
Other:			

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

Start Time (purge): 0915 | Weather Conditions: SUNNY
Sample Time/Date: 0937 / 2.27.13 | Water Color: LT. BRN. Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. | Sediment Description: S. SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 15.74

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0919	2.0	7.67	541	16.8	PRE: 1.8	PRE: 26	PRE: 159
0923	4.0	7.64	538	17.1			
0927	6.0	7.61	534	17.8			
					POST: 1.9	POST: 32	POST: 165

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-MW-5	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: CHRISTY Box OK

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ (2")

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 2.27.13 (inclusive)
City: Oakland, CA | Sampler: FT

Well ID: A-MW-6 | Date Monitored: 2.27.13
Well Diameter: 2 in.
Total Depth: 25.95 ft.
Depth to Water: 16.93 ft. ☐ Check if water column is less then 0.50 ft.

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

9.02 xVF .17 = 1.53 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.31

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

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

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

Start Time (purge): 0830 | Weather Conditions: Cloudy
Sample Time/Date: 0850 / 2.27.13 | Water Color: LT. BRN. Odor: Y / ND
Approx. Flow Rate: / gpm. | Sediment Description: S. Silty
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 17.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0833	1.5	7.34	578	17.2	PRE: 1.8	PRE: 40	PRE: 165
0836	3.0	7.31	574	17.6			
0840	5.0	7.29	570	17.9			
					POST: 1.7	POST: 48	POST: 173

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-MW-6	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: CHRISTY BOX (OK)

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: ✓ Add/Replaced Plug: ✓ (2")

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2.27.13 (inclusive)
City: Oakland, CA Sampler: FT

Well ID A-MW-7 Date Monitored: 2.27.13
Well Diameter 2 in.
Total Depth 27.73 ft.
Depth to Water 16.83 ft.
10.90 xVF .17 = 1.85 x3 case volume = Estimated Purge Volume: 6.0 gal.

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

☐ Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.01

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

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

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

Start Time (purge): 1015 Weather Conditions: SUNNY
Sample Time/Date: 1038 / 2-27-13 Water Color: LT. BRN Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. Sediment Description: S. SILTY
Did well de-water? ND If yes, Time: Volume: gal. DTW @ Sampling: 16.91

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	TURBIDITY
1019	2.0	7.11	533	20.4	PRE: 2.1	PRE: 36	PRE: 215
1023	4.0	7.09	530	20.7			
1027	6.0	7.07	526	21.0			
					POST: 1.9	POST: 44	POST: 226

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
A-MW-7	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: CHRISTY BOX OK

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #351646 / 0752** Job Number: **385647**

Site Address: **800 Harrison Street** Event Date: 2-27-13 (inclusive)

City: **Oakland, CA** Sampler: AW / AM

Well ID SP-3 Date Monitored: 2-27-13

Well Diameter 2 in.

Total Depth N/A ft.

Depth to Water ft.

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

☐ Check if water column is less then 0.50 ft.

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

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ / _____ Water Color: _____ Odor: **Y / N** _____

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Unable to locate

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: AW / AM

Well ID SP-4 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth N/A ft.
Depth to Water ft.

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

☐ Check if water column is less then 0.50 ft.

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

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Unable to locate.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: AW /AM

Well ID SP-5 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth ft.
Depth to Water N/D ft.

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

☐ Check if water column is less then 0.50 ft.

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

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Unable to locate

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 | Job Number: 385647
Site Address: 800 Harrison Street | Event Date: 2-27-13 (inclusive)
City: Oakland, CA | Sampler: AW / AM

Well ID: S-MW-1 | Date Monitored: 2-27-13
Well Diameter: 2 in.
Total Depth: 27.20 ft.
Depth to Water: 18.21 ft.

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

☐ Check if water column is less then 0.50 ft.

8.99 xVF .17 = 1.52 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.00

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0830 | Weather Conditions: Sunny
Sample Time/Date: 0900 / 2-27-13 | Water Color: Cloudy | Odor: (Y) N / Slight
Approx. Flow Rate: — gpm. | Sediment Description: Cloudy
Did well de-water? N | If yes, Time: — Volume: — gal. DTW @ Sampling: 19.85

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0835	1.5	7.06	0.54	17.9	PRE: 1.3	PRE: 16	PRE: 4.2 NTU
0840	3.0	7.12	0.53	18.3			
0845	5.0	7.20	0.48	18.8			
					POST: 1.7	POST: 29	POST: 110

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-MW-1	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: BL/8"/35

Add/Replaced Gasket: _____ Add/Replaced Bolt: 3 Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: BW AM

Well ID S-MW-2 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth 28.00 ft.
Depth to Water 18.95 ft.

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

☐ Check if water column is less then 0.50 ft.

9.05 xVF .17 = 1.53 x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.74

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

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

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

Start Time (purge): 1020 Weather Conditions: Sunny
Sample Time/Date: 1050 / 2-27-13 Water Color: Cloudy Odor: Y (N)
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 20.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
1025	1.5	7.43	0.30	18.2	PRE: 1.3	PRE: 27	PRE: 18.0 NTU
1030	3.0	7.14	0.32	18.3			
1035	5.0	6.87	0.34	18.6			
					POST: 1.5	POST: 43	POST: 700

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-MW-2	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: morryan / 8" / 2B in flange

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: AW AM

Well ID: S-MW-3 Date Monitored: 2-27-13
Well Diameter: 2 in.
Total Depth: 29.20 ft.
Depth to Water: 18.12 ft.

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

☐ Check if water column is less then 0.50 ft.

11.08 xVF .17 = 1.88 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.33

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

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

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

Start Time (purge): 0710 Weather Conditions: Cloudy
Sample Time/Date: 0740 / 2-27-13 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 19.78

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS) mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0715	2.0	7.71	0.39	17.8	PRE: 1.1	PRE: 15	PRE: 22.0 ntu
0720	4.0	7.55	0.41	18.3			
0725	6.0	7.22	0.44	18.7			
					POST: 1.3	POST: 1	POST: 90.0

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-MW-3	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS:

Morrison / 8" / 25

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: AW AM

Well ID S-MW-4 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth 29.70 ft.
Depth to Water 18.50 ft.

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

☐ Check if water column is less then 0.50 ft.

11.20 xVF .17 = 1.90 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.74

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0630 Weather Conditions: Cloudy
Sample Time/Date: 0700 / 2-27-13 Water Color: Cloudy Odor: Y / N
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 19.55

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0635	2.0	7.10	0.80	15.5	PRE: 1.2	PRE: -24	PRE: 450 ntu
0640	4.0	7.14	0.76	16.8			
0645	6.0	7.21	0.70	18.5			
					POST: 1.5	POST: -18	POST: 320

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-MW-4	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: morrison 18"/2-25

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: AW

Well ID S-MW-5 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth 28.50 ft.
Depth to Water N/A ft.

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

☐ Check if water column is less then 0.50 ft.

N/A xVF .17 = _____ x3 case volume = Estimated Purge Volume: _____ gal.

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

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

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

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

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

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

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Unable to access, parked over.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
Site Address: 800 Harrison Street Event Date: 2-27-13 (inclusive)
City: Oakland, CA Sampler: AW AMA

Well ID S-MW-6 Date Monitored: 2-27-13
Well Diameter 2 in.
Total Depth 48.09 ft.
Depth to Water 26.48 ft.

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

☐ Check if water column is less then 0.50 ft.

21.61 xVF .17 = 3.67 x3 case volume = Estimated Purge Volume: 11.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 30.80

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

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

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

Start Time (purge): 0750 Weather Conditions: Cloudy
Sample Time/Date: 0820 / 2-27-13 Water Color: Clear Odor: Y / N Clear
Approx. Flow Rate: 1.0 gpm. Sediment Description: Clear
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 30.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity MS (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0754	4.0	8.05	0.40	18.5	PRE: 0.9	PRE: 37	PRE: 2.2 NTU
0758	8.0	8.11	0.45	18.9			
0801	11.0	8.25	0.49	19.0			
					POST: 1.2	POST: 25	POST: 3.4

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-MW-6	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: marban /12" /2-OK

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752
Site Address: 800 Harrison Street
City: Oakland, CA

Job Number: 385647
Event Date: 2-27-13 (inclusive)
Sampler: AW / AM

Well ID: S-EW-1
Well Diameter: 6 in.
Total Depth: 28.68 ft.
Depth to Water: 18.17 ft.

Date Monitored: 2-27-13

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

☐ Check if water column is less then 0.50 ft.

10.57 xVF 1.50 = 15.76 x3 case volume = Estimated Purge Volume: 47.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.27

Purge Equipment:

- Disposable Bailer: ____
- Stainless Steel Bailer: ✓
- Stack Pump: ✓
- Suction Pump: ____
- Grundfos: ____
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

Sampling Equipment:

- Disposable Bailer: ✓
- Pressure Bailer: ____
- Metal Filters: ____
- Peristaltic Pump: ____
- QED Bladder Pump: ____
- Other: ____

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

Start Time (purge): 0915
Sample Time/Date: 1005 / 2-27-13
Approx. Flow Rate: 1-2 gpm.
Did well de-water? N If yes, Time: — Volume: — gal.

Weather Conditions: Sunny
Water Color: Clear Odor: Y / N
Sediment Description: Clear
DTW @ Sampling: 19.66

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS) mS	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
0925	16.0	7.43	0.45	17.8	PRE: 1.3	PRE: 35	PRE: 8.5 NTU
0935	32.0	7.25	0.47	18.4			
0945	47.5	7.10	0.42	18.9			
					POST: 1.4	POST: 29	POST: 2.7

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
S-EW-1	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/ EDB/EDC(8260/ETHANOL(8260)
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)
	x 500ml poly	YES	NP	BC LABS	DISSOLVED METALS (Cd, Cr, Pb, Ni, Zn) (6010)
	1 x 1 liter poly	YES	NP	BC LABS	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ ALKALINITY
	3 x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC

COMMENTS: Morrison / 12"/2-OK

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

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: 0752	Union Oil Consultant: ARCADIS
Site Global ID: T0600101486	Consultant Contact: KATHERINE BRANDT
Site Address: 800 HARRISON ST. OAKLAND, CA	Consultant Phone No.: (510) 596-9675
	Sampling Company: ~~TRC~~ GETTLER-RYAN
~~Union~~ Chevron Oil PM: ROYA KAMBIN	Sampled By (PRINT): FRANK T., ALEX W. & ALEX M.
~~Union Oil~~ Chevron PM Phone No.: (925) 790-6270	
Charge Code: NWRTB- 0 351646 -0- LAB	Sampler Signature: [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

ANALYSES REQUIRED

SAMPLE ID: Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by ~~GC/MS~~ (C6 - C12)(8015B)	BTEX/MTBE/~~OXYS~~ by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	SVOCS (8270)	(Cd, Cr, Pb, Ni, Zn)(6010) DISSOLVED METALS	METHANE	(H₂SO₄) TOC	EDB / EDC (8260)	DISSOLVED FERROUS / NITRATE / NITRITE / SULFATE / ALKALINITY	Notes / Comments
QA	(W)-S-A		3 227		2		X	X									
MW-1	W-S-A			1315	14		X	X	X		X	X	X	X	X	X	
MW-2	W-S-A			1222	11		X	X	X				X	X	X	X	
MW-3	W-S-A			1420	11		X	X	X				X	X	X	X	
MW-4	W-S-A			1125	11		X	X	X				X	X	X	X	
MW-5	W-S-A			1405	11		X	X	X				X	X	X	X	
MW-6	W-S-A			1340	11		X	X	X				X	X	X	X	
MW-7	W-S-A			0715	11		X	X	X				X	X	X	X	
MW-8	W-S-A			0635	11		X	X	X				X	X	X	X	
A-MW-2	W-S-A			1140	11		X	X	X				X	X	X	X	
A-MW-3	W-S-A			1225	11		X	X	X				X	X	X	X	
A-MW-5	W-S-A			0937	11		X	X	X				X	X	X	X	

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	G-R	2.27.13 1500						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
[signature]	BC Lab	2.27.13 1500						

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: 0752	Union Oil Consultant: ARCADIS
Site Global ID: T0600101486	Consultant Contact: KATHERINE BLANDT
Site Address: 800 HARRISON ST OAKLAND, CA	Consultant Phone No.: (510) 596-9675
~~Union~~ CHEVRON Oil PM: ROYA KAMBIN	Sampling Company: ~~TRC~~ GETTLER-RYAN
~~Union~~ CHEVRON Oil PM Phone No.: (925) 790-6270	Sampled By (PRINT): FRANK T., ALEX W & ALEX M.
Charge Code: NWRTB- 0 3 5 1 6 4 6 -0- LAB	Sampler Signature: [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

ANALYSES REQUIRED

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

Special Instructions

SAMPLE ID

Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by ~~GC/MS~~ (C6-C12)(8015B)	BTEX/MTBE/~~OXYS~~ by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	METHANE	TOC (H2SO4)	EDB/EDC (8260)	DISSOLVED IRON/NITRATE/NITRITE SULFATE/ALKALINITY			Notes / Comments
A-MW-6	W-S-A		13 2 27	0850	11		X	X	X		X	X	X	X			
A-MW-7	W-S-A		↓	1038	11		X	X	X		X	X	X	X			
S-MW-1	W-S-A		↓	0900	11		X	X	X		X	X	X	X			
S-MW-2	W-S-A		↓	1050	11		X	X	X		X	X	X	X			
S-MW-3	W-S-A		↓	0740	11		X	X	X		X	X	X	X			
S-MW-4	W-S-A		↓	0700	11		X	X	X		X	X	X	X			
S-MW-6	W-S-A		↓	0820	11		X	X	X		X	X	X	X			
S-EW-1	W-S-A		↓	1005	11		X	X	X		X	X	X	X			
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	G-R	2.27.13 1500						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
[illegible]	[illegible]	[illegible]						

ARCADIS

Attachment B

Historical Groundwater Results from TRC

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 2011
76 Station 0752

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														
6/5/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
9/30/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
12/30/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
4/2/1992	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
6/30/1992	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
9/15/1992	34.94	--	--	--	--	76	--	1.0	ND	ND	ND	--	--	
12/21/1992	34.94	21.17	0.00	13.77	--	95	--	0.69	ND	ND	1.0	--	--	
4/28/1993	34.94	--	--	--	--	920	--	3.1	2.3	1.2	9.7	--	--	
7/23/1993	34.94	20.13	0.00	14.81	--	ND	--	0.5	0.66	ND	ND	--	--	
10/5/1993	34.69	20.30	0.00	14.39	-0.42	92	--	1.5	ND	ND	0.72	--	--	
1/3/1994	34.69	20.52	0.00	14.17	-0.22	ND	--	ND	ND	ND	ND	--	--	
4/2/1994	34.69	20.16	0.00	14.53	0.36	ND	--	ND	ND	ND	ND	--	--	
7/5/1994	34.69	19.27	0.00	15.42	0.89	250	--	4.8	13	1.2	7.3	--	--	
10/6/1994	34.69	20.87	0.00	13.82	-1.60	540	--	1.4	ND	0.66	11	--	--	
1/2/1995	34.69	19.67	0.00	15.02	1.20	140	--	ND	ND	ND	ND	--	--	
4/3/1995	34.69	17.61	0.00	17.08	2.06	580	--	3.6	0.8	ND	4.0	--	--	
7/14/1995	34.69	18.58	0.00	16.11	-0.97	260	--	2.1	ND	ND	1.2	--	--	
10/10/1995	34.69	19.60	0.00	15.09	-1.02	220	--	2.0	ND	25	5.6	29	--	
1/3/1996	34.69	19.69	0.00	15.00	-0.09	190	--	2.4	ND	0.71	1.2	--	--	
4/10/1996	34.69	17.65	0.00	17.04	2.04	540	--	8.9	1.7	1.5	7.4	50	--	
7/9/1996	34.69	18.52	0.00	16.17	-0.87	490	--	3.0	1.4	1.3	2.5	150	--	
1/24/1997	34.69	17.72	0.00	16.97	0.80	760	--	27	0.89	5.2	10	510	--	
7/23/1997	34.69	19.42	0.00	15.27	-1.70	ND	--	ND	ND	ND	ND	550	--	
1/26/1998	34.69	17.46	0.00	17.23	1.96	1800	--	ND	ND	ND	ND	4800	--	
7/3/1998	34.69	18.61	0.00	16.08	-1.15	ND	--	ND	ND	ND	ND	1800	--	
1/14/1999	34.69	18.92	0.00	15.77	-0.31	83	--	ND	ND	ND	ND	230	--	
7/15/1999	34.69	17.84	0.00	16.85	1.08	110	--	ND	ND	ND	1.0	290	--	
1/7/2000	34.69	19.13	0.00	15.56	-1.29	ND	--	ND	ND	ND	ND	260	--	
7/19/2000	34.69	20.27	0.00	14.42	-1.14	ND	--	ND	ND	ND	ND	648	--	
1/2/2001	34.69	20.04	0.00	14.65	0.23	ND	--	ND	ND	ND	ND	119	--	
5/23/2001	34.69	18.27	0.00	16.42	1.77	84	--	ND	ND	ND	ND	760	--	
7/30/2001	34.69	18.56	0.00	16.13	-0.29	<50	--	<0.50	<0.50	<0.50	<0.50	350	--	
10/15/2001	34.69	18.72	0.00	15.97	-0.16	96	--	<0.50	<0.50	<0.50	<0.50	160	--	

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 2011
76 Station 0752

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
1/14/2002	34.69	16.78	0.00	17.91	1.94	450	--	<2.5	<2.5	<2.5	3.3	4100	--	
4/15/2002	34.69	17.35	0.00	17.34	-0.57	<1000	--	<10	<10	<10	<10	10000	--	
7/15/2002	34.69	17.63	0.00	17.06	-0.28	2100	--	<10	<10	<10	<20	--	2100	
1/18/2003	34.69	17.04	0.00	17.65	0.59	<25000	--	<250	<250	<250	<500	--	29000	
7/11/2003	34.69	17.91	0.00	16.78	-0.87	4000	--	<25	<25	<25	<50	--	6300	
2/4/2004	34.69	17.98	0.00	16.71	-0.07	--	8000	<50	<50	<50	<100	--	8500	
8/11/2004	34.69	17.84	0.00	16.85	0.14	--	1100	<10	<10	<10	<20	--	1500	
3/31/2005	34.69	15.71	0.00	18.98	2.13	--	<2000	<0.50	<0.50	0.54	2.2	--	4900	
9/30/2005	34.69	17.65	0.00	17.04	-1.94	--	190	<0.50	<0.50	<0.50	<1.0	--	160	
3/27/2006	34.69	15.03	0.00	19.66	2.62	--	760	<0.50	<0.50	<0.50	<1.0	--	1000	
9/27/2006	34.69	18.45	0.00	16.24	-3.42	--	170	<0.50	<0.50	<0.50	0.61	--	73	
3/27/2007	34.69	18.84	0.00	15.85	-0.39	--	120	<0.50	<0.50	<0.50	<0.50	--	99	
9/28/2007	34.69	19.73	0.00	14.96	-0.89	--	68	<0.50	<0.50	<0.50	<0.50	--	15	
3/26/2008	34.69	19.32	0.00	15.37	0.41	--	200	<0.50	<0.50	<0.50	1.0	--	47	
7/28/2008	34.69	20.15	0.00	14.54	-0.83	--	<50	<0.50	<0.50	<0.50	<1.0	--	8.7	
1/26/2009	34.69	20.74	0.00	13.95	-0.59	--	<50	<0.50	<0.50	<0.50	<1.0	--	5.2	
8/3/2009	34.72	20.10	0.00	14.62	0.67	--	76	<0.50	<0.50	<0.50	<1.0	--	12	
1/25/2010	34.72	19.78	0.00	14.94	0.32	--	<50	<0.50	<0.50	<0.50	<1.0	--	14	
8/3/2010	34.72	19.47	0.00	15.25	0.31	--	210	<0.50	<0.50	<0.50	<1.0	--	37	
2/17/2011	34.72	19.50	0.00	15.22	-0.03	--	150	<0.50	<0.50	<0.50	<1.0	--	17	
8/3/2011	34.72	18.96	0.00	15.76	0.54	--	230	<0.50	<0.50	<0.50	<1.0	--	44	
MW-2														
6/5/1991	34.97	--	--	--	--	49	--	ND	ND	ND	ND	--	--	
9/30/1991	34.97	--	--	--	--	130	--	18	0.53	14	9.6	--	--	
12/30/1991	34.97	--	--	--	--	91	--	16	0.89	11	1.9	--	--	
4/2/1992	34.97	--	--	--	--	88	--	12	0.32	6.3	7.2	--	--	
6/30/1992	34.97	--	--	--	--	76	--	9.3	0.76	4.8	6.9	--	--	
9/15/1992	34.97	--	--	--	--	1300	--	91	5.7	80	110	--	--	
12/21/1992	34.97	20.85	0.00	14.12	--	960	--	97	3.2	74	96	--	--	
4/28/1993	34.97	--	--	--	--	1300	--	76	1.9	130	87	--	--	
7/23/1993	34.97	19.81	0.00	15.16	--	66	--	1.8	ND	2.5	2.0	--	--	
10/5/1993	34.72	19.95	0.00	14.77	-0.39	120	--	12	ND	2.1	12	--	--	
1/3/1994	34.72	20.21	0.00	14.51	-0.26	260	--	25	ND	5.5	26	--	--	
4/2/1994	34.72	19.88	0.00	14.84	0.33	ND	--	0.65	ND	ND	0.99	--	--	

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 2011
76 Station 0752

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
7/5/1994	34.72	19.07	0.00	15.65	0.81	160	--	16	ND	0.73	10	--	--	
10/6/1994	34.72	20.55	0.00	14.17	-1.48	170	--	15	ND	1.4	11	--	--	
1/2/1995	34.72	19.25	0.00	15.47	1.30	190	--	27	ND	0.95	11	--	--	
4/3/1995	34.72	17.49	0.00	17.23	1.76	2400	--	65	6.6	19	63	--	--	
7/14/1995	34.72	18.30	0.00	16.42	-0.81	750	--	270	ND	ND	13	--	--	
10/10/1995	34.72	19.25	0.00	15.47	-0.95	50	--	1.6	ND	ND	ND	200	--	
1/3/1996	34.72	19.40	0.00	15.32	-0.15	ND	--	ND	ND	ND	ND	--	--	
4/10/1996	34.72	17.35	0.00	17.37	2.05	300	--	42	ND	2.4	9	620	--	
7/9/1996	34.72	18.22	0.00	16.50	-0.87	760	--	230	ND	1.3	2.4	1500	--	
1/24/1997	34.72	17.59	0.00	17.13	0.63	2900	--	400	350	190	720	1300	--	
7/23/1997	34.72	19.13	0.00	15.59	-1.54	ND	--	ND	ND	ND	ND	65	--	
1/26/1998	34.72	17.12	0.00	17.60	2.01	ND	--	ND	ND	ND	0.58	13	--	
7/3/1998	34.72	18.20	0.00	16.52	-1.08	140	--	26	ND	0.95	5.0	330	--	
1/14/1999	34.72	18.56	0.00	16.16	-0.36	ND	--	0.54	ND	ND	ND	350	--	
7/15/1999	34.72	17.39	0.00	17.33	1.17	ND	--	0.88	ND	ND	ND	39	--	
1/7/2000	34.72	18.78	0.00	15.94	-1.39	ND	--	ND	ND	ND	ND	24	--	
7/19/2000	34.72	19.68	0.00	15.04	-0.90	ND	--	1.45	ND	ND	ND	117	--	
1/2/2001	34.72	19.73	0.00	14.99	-0.05	ND	--	ND	ND	ND	ND	11.4	--	
5/23/2001	34.72	18.16	0.00	16.56	1.57	ND	--	ND	ND	ND	ND	33	--	
7/30/2001	34.72	18.34	0.00	16.38	-0.18	<50	--	<0.50	<0.50	<0.50	<0.50	67	--	
10/15/2001	34.72	18.52	0.00	16.20	-0.18	<50	--	<0.50	<0.50	<0.50	<0.50	31	--	
1/14/2002	34.72	16.72	0.00	18.00	1.80	<50	--	<0.50	<0.50	<0.50	0.56	11	--	
4/15/2002	34.72	17.26	0.00	17.46	-0.54	<50	--	<0.50	<0.50	<0.50	<0.50	110	--	
7/15/2002	34.72	17.46	0.00	17.26	-0.20	270	--	21	<0.50	3.8	4.0	--	73	
1/18/2003	34.72	16.93	0.00	17.79	0.53	<50	--	<0.50	<0.50	<0.50	<1.0	--	22	
7/11/2003	34.72	17.68	0.00	17.04	-0.75	130	--	3.0	<0.50	<0.50	<1.0	--	89	
2/4/2004	34.72	17.36	0.00	17.36	0.32	--	61	2.9	<0.50	<0.50	<1.0	--	22	
8/11/2004	34.72	17.61	0.00	17.11	-0.25	--	140	<0.50	0.60	<0.50	<1.0	--	94	
3/31/2005	34.72	15.56	0.00	19.16	2.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	14	
9/30/2005	34.72	17.31	0.00	17.41	-1.75	--	<50	<0.50	<0.50	<0.50	<1.0	--	9.1	
3/27/2006	34.72	14.91	0.00	19.81	2.40	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	
9/27/2006	34.72	18.15	0.00	16.57	-3.24	--	<50	<0.50	<0.50	<0.50	<0.50	--	7.7	
3/27/2007	34.72	18.57	0.00	16.15	-0.42	--	<50	<0.50	<0.50	<0.50	<0.50	--	1.4	
9/28/2007	34.72	18.38	0.00	16.34	0.19	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	

Table 2
HISTORICAL GROUNDWATER RESULTS

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
3/26/2008	34.72	19.06	0.00	15.66	-0.68	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
7/28/2008	34.72	19.90	0.00	14.82	-0.84	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
1/26/2009	34.72	20.50	0.00	14.22	-0.60	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2009	34.74	19.92	0.00	14.82	0.60	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
1/25/2010	34.74	19.70	0.00	15.04	0.22	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2010	34.74	19.26	0.00	15.48	0.44	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
2/17/2011	34.74	19.32	0.00	15.42	-0.06	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2011	34.74	18.74	0.00	16.00	0.58	--	77	6.7	<0.50	<0.50	<1.0	--	14	
MW-3														
6/5/1991	33.39	--	--	--	--	5800	--	1200	40	140	97	--	--	
9/30/1991	33.39	--	--	--	--	6800	--	1400	130	290	240	--	--	
12/30/1991	33.39	--	--	--	--	7200	--	2100	690	410	550	--	--	
4/2/1992	33.39	--	--	--	--	8000	--	1400	200	300	310	--	--	
6/30/1992	33.39	--	--	--	--	8900	--	1900	210	430	550	--	--	
9/15/1992	33.39	--	--	--	--	10000	--	1900	330	400	580	--	--	
12/21/1992	33.39	20.02	0.00	13.37	--	8500	--	1500	150	310	330	--	--	
4/28/1993	33.39	--	--	--	--	2600	--	220	7.6	41	27	--	--	
7/23/1993	33.39	19.00	0.00	14.39	--	4400	--	660	26	160	82	--	--	
10/5/1993	33.14	19.20	0.00	13.94	-0.45	9200	--	720	88	140	140	--	--	
1/3/1994	33.14	19.40	0.00	13.74	-0.20	4900	--	830	100	170	150	--	--	
4/2/1994	33.14	19.01	0.00	14.13	0.39	6000	--	800	30	140	110	--	--	
7/5/1994	33.14	18.14	0.00	15.00	0.87	25000	--	ND	ND	ND	ND	--	--	
10/6/1994	33.14	19.73	0.00	13.41	-1.59	49000	--	1300	200	280	300	--	--	
1/2/1995	33.14	18.36	0.00	14.78	1.37	480	--	1.6	ND	1.4	ND	--	--	
4/3/1995	33.14	16.38	0.00	16.76	1.98	8100	--	65	ND	ND	ND	--	--	
7/14/1995	33.14	17.49	0.00	15.65	-1.11	ND	--	1300	ND	ND	ND	--	--	
10/10/1995	33.14	18.50	0.00	14.64	-1.01	3100	--	1400	36	50	53	190000	--	
1/3/1996	33.14	18.54	0.00	14.60	-0.04	ND	--	2300	110	150	140	--	--	
7/9/1996	33.14	17.43	0.00	15.71	1.11	ND	--	2000	ND	150	160	140000	--	
1/24/1997	33.14	16.57	0.00	16.57	0.86	540	--	8.0	ND	11	9.9	45	--	
7/23/1997	33.14	18.38	0.00	14.76	-1.81	7400	--	1900	180	140	340	45000	--	
1/26/1998	33.14	16.22	0.00	16.92	2.16	250	--	2.2	1.9	0.87	1.9	4.0	--	
7/3/1998	33.14	17.46	--	15.68	-1.24	230	--	1.8	2.5	1.5	3.4	6.3	--	
1/14/1999	33.14	17.73	--	15.41	-0.27	400	--	8.2	2.7	0.90	5.9	140	--	

Table 2
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/15/1999	33.14	16.58	--	16.56	1.15	290	--	3.3	3.6	1.7	2.5	13	--	
1/7/2000	33.14	17.84	--	15.30	-1.26	ND	--	890	91	100	480	20000	--	
7/19/2000	33.14	18.92	--	14.22	-1.08	354	--	3.87	2.61	0.646	ND	13.7	--	
1/2/2001	33.14	19.07	--	14.07	-0.15	464	--	ND	3.69	3.91	ND	21.1	--	
5/23/2001	33.14	17.12	--	16.02	1.95	420	--	7.6	3.1	3.0	5.1	1900	--	
7/30/2001	33.14	17.38	--	15.76	-0.26	290	--	4.6	4.1	<0.50	3.4	23	--	
10/15/2001	33.14	17.61	--	15.53	-0.23	400	--	<0.50	<0.50	<0.50	<0.50	13	--	
1/14/2002	33.14	15.53	--	17.61	2.08	130	--	0.50	0.61	1.1	<0.50	9.9	--	
4/15/2002	33.14	16.12	--	17.02	-0.59	280	--	9.9	1.6	3.3	6.8	1400	--	
7/15/2002	33.14	16.48	--	16.66	-0.36	64	--	<0.50	<0.50	<0.50	<1.0	33	--	
1/18/2003	33.14	15.81	--	17.33	0.67	420	--	0.54	<0.50	<0.50	<1.0	130	--	
7/11/2003	33.14	16.74	--	16.40	-0.93	--	300	2.3	<0.50	<0.50	<1.0	--	31	
2/4/2004	33.14	16.15	0.00	16.99	0.59	--	130	7.9	<0.50	<0.50	<1.0	--	63	
8/11/2004	33.14	16.64	0.00	16.50	-0.49	--	<20000	<200	<200	<200	<400	--	20000	
3/31/2005	33.14	14.53	0.00	18.61	2.11	--	<20000	330	<200	<200	<400	--	78000	
9/30/2005	33.14	16.55	0.00	16.59	-2.02	--	12000	360	40	<25	50	--	20000	
3/27/2006	33.14	13.66	0.00	19.48	2.89	--	10000	150	<25	53	99	--	15000	
9/27/2006	33.14	17.40	0.00	15.74	-3.74	--	<12000	<120	<120	<120	<120	--	12000	
3/27/2007	33.14	17.55	0.00	15.59	-0.15	--	8700	180	<12	60	57	--	8900	
9/28/2007	33.14	18.59	0.00	14.55	-1.04	--	9000	55	<50	<50	<50	--	11000	
3/26/2008	33.14	18.19	0.00	14.95	0.40	--	450	13	1.3	0.84	1.4	--	7200	
7/28/2008	33.14	19.00	0.00	14.14	-0.81	--	8300	<50	<50	<50	<100	--	13000	
1/26/2009	33.14	19.54	0.00	13.60	-0.54	--	8800	27	<12	<12	<25	--	13000	
8/3/2009	33.18	18.90	0.00	14.28	0.68	--	9300	56	<50	<50	<100	--	8000	
1/25/2010	33.18	18.54	0.00	14.64	0.36	--	4900	79	7.3	5.4	13	--	8100	
8/3/2010	33.18	18.35	0.00	14.83	0.19	--	2500	30	<12	<12	<25	--	4600	
2/17/2011	33.18	18.30	0.00	14.88	0.05	--	3800	11	<5.0	<5.0	<10	--	4700	
8/3/2011	33.18	17.87	0.00	15.31	0.43	--	2,600	9.7	0.8	3.1	1.4	--	2,000	
MW-4														
10/19/1992	--	--	--	--	--	480	--	0.51	2.1	2.8	6.8	--	--	
12/21/1992	33.12	19.73	--	13.39	--	220	--	ND	ND	0.97	0.74	--	--	
4/28/1993	33.12	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
7/23/1993	33.12	18.72	--	14.40	--	85	--	ND	ND	ND	ND	--	--	
10/5/1993	32.71	18.74	--	13.97	-0.43	130	--	ND	ND	ND	ND	--	--	

Table 2
HISTORICAL GROUNDWATER RESULTS

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
1/3/1994	32.71	18.93	--	13.78	-0.19	210	--	ND	ND	0.76	1.6	--	--	
4/2/1994	32.71	18.53	--	14.18	0.40	89	--	ND	ND	ND	ND	--	--	
7/5/1994	32.71	17.67	--	15.04	0.86	190	--	ND	ND	ND	ND	--	--	
10/6/1994	32.71	19.25	--	13.46	-1.58	170	--	0.85	ND	ND	0.74	--	--	
1/2/1995	32.71	17.75	--	14.96	1.50	ND	--	ND	ND	ND	ND	--	--	
4/3/1995	32.71	15.87	--	16.84	1.88	98	--	ND	ND	ND	ND	--	--	
7/14/1995	32.71	17.01	--	15.70	-1.14	ND	--	ND	ND	ND	ND	--	--	
10/10/1995	32.71	18.03	--	14.68	-1.02	ND	--	ND	ND	ND	ND	120	--	
1/3/1996	32.71	18.05	--	14.66	-0.02	ND	--	ND	ND	ND	ND	--	--	
4/10/1996	32.71	16.00	--	16.71	2.05	ND	--	ND	ND	ND	ND	240	--	
7/9/1996	32.71	16.96	--	15.75	-0.96	ND	--	ND	ND	ND	ND	480	--	
1/24/1997	32.71	16.04	0.00	16.67	0.92	ND	--	ND	ND	ND	ND	270	--	
7/23/1997	32.71	17.87	0.00	14.84	-1.83	ND	--	ND	ND	ND	ND	460	--	
1/26/1998	32.71	16.05	--	16.66	1.82	ND	--	ND	ND	ND	ND	17	--	
7/3/1998	32.71	16.95	--	15.76	-0.90	ND	--	ND	ND	ND	ND	3.8	--	
1/14/1999	32.71	17.34	--	15.37	-0.39	ND	--	ND	ND	ND	ND	4600	--	
7/15/1999	32.71	16.36	--	16.35	0.98	ND	--	ND	ND	ND	ND	ND	--	
1/7/2000	32.71	17.81	--	14.90	-1.45	ND	--	ND	ND	ND	ND	450	--	
7/19/2000	32.71	18.94	--	13.77	-1.13	ND	--	ND	ND	ND	ND	ND	--	
1/2/2001	32.71	18.85	--	13.86	0.09	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.71	16.82	--	15.89	2.03	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.71	16.88	--	15.83	-0.06	<50	--	<0.50	<0.50	<0.50	<0.50	4.9	--	
10/15/2001	32.71	17.08	--	15.63	-0.20	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	
1/14/2002	32.71	14.97	--	17.74	2.11	<50	--	<0.50	<0.50	<0.50	<0.50	30	--	
4/15/2002	32.71	15.48	--	17.23	-0.51	<50	--	<0.50	<0.50	<0.50	<0.50	180	--	
7/15/2002	32.71	15.90	--	16.81	-0.42	<50	--	<0.50	<0.50	<0.50	<1.0	50	--	
1/18/2003	32.71	15.39	--	17.32	0.51	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.71	16.17	--	16.54	-0.78	--	200	<0.50	<0.50	<0.50	<1.0	--	52	
2/4/2004	32.71	16.12	0.00	16.59	0.05	--	1300	<10	<10	<10	<20	--	1700	
8/11/2004	32.71	16.16	0.00	16.55	-0.04	--	<5000	<50	<50	<50	<100	--	6400	
3/31/2005	32.71	14.15	0.00	18.56	2.01	--	<1300	<0.50	<0.50	<0.50	<1.0	--	1600	
9/30/2005	32.71	16.91	0.00	15.80	-2.76	--	900	<0.50	<0.50	<0.50	<1.0	--	3800	
3/27/2006	32.71	13.94	0.00	18.77	2.97	--	870	<0.50	<0.50	<0.50	<1.0	--	2000	
9/27/2006	32.71	16.91	0.00	15.80	-2.97	--	<1000	<10	<10	<10	<10	--	1600	

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
3/27/2007	32.71	17.15	0.00	15.56	-0.24	--	1500	<2.5	<2.5	<2.5	<2.5	--	1700	
9/28/2007	32.71	18.13	0.00	14.58	-0.98	--	590	<5.0	<5.0	<5.0	<5.0	--	1400	
3/26/2008	32.71	17.66	0.00	15.05	0.47	--	390	<0.50	<0.50	<0.50	<1.0	--	1400	
7/28/2008	32.71	18.34	0.00	14.37	-0.68	--	480	<1.0	<1.0	<1.0	<2.0	--	950	
1/26/2009	32.71	18.80	0.00	13.91	-0.46	--	500	<0.50	<0.50	<0.50	<1.0	--	830	
8/3/2009	32.72	18.43	0.00	14.29	0.38	--	640	<5.0	6.6	<5.0	<10	--	570	
1/25/2010	32.72	18.02	0.00	14.70	0.41	--	190	<0.50	<0.50	<0.50	<1.0	--	400	
8/3/2010	32.72	17.83	0.00	14.89	0.19	--	58	<0.50	<0.50	<0.50	<1.0	--	110	
2/17/2011	32.72	17.85	0.00	14.87	-0.02	--	<50	<0.50	<0.50	<0.50	<1.0	--	12	
8/3/2011	32.72	17.36	0.00	15.36	0.49	--	<50	<0.50	<0.50	<0.50	<1.0	--	12	
MW-5														
10/19/1992	--	--	--	--	--	2700	--	61	5.0	100	61	--	--	
12/21/1992	33.25	19.75	--	13.50	--	1700	--	51	4.7	83	34	--	--	
4/28/1993	33.25	--	--	--	--	6700	--	200	190	250	430	--	--	
7/23/1993	33.25	18.74	--	14.51	--	2000	--	122	8.0	68	47	--	--	
10/5/1993	32.95	18.83	--	14.12	-0.39	1700	--	70	6.2	54	40	--	--	
1/3/1994	32.95	19.05	--	13.90	-0.22	1500	--	44	ND	42	46	--	--	
4/2/1994	32.95	18.68	--	14.27	0.37	1800	--	46	5.1	38	35	--	--	
7/5/1994	32.95	17.90	--	15.05	0.78	2200	--	97	8.4	37	36	--	--	
10/6/1994	32.95	19.37	--	13.58	-1.47	1600	--	79	5.7	28	22	--	--	
1/2/1995	32.95	17.92	--	15.03	1.45	1700	--	50	8.6	30	28	--	--	
4/3/1995	32.95	16.15	--	16.80	1.77	5400	--	190	240	170	420	--	--	
7/14/1995	32.95	17.18	--	15.77	-1.03	3800	--	210	100	130	190	--	--	
10/10/1995	32.95	18.15	--	14.80	-0.97	1300	--	92	14	15	39	1100	--	
1/3/1996	32.95	18.20	--	14.75	-0.05	630	--	53	4.4	8.3	13	--	--	
4/10/1996	32.95	16.05	--	16.90	2.15	500	--	25	18	7.0	20	640	--	
7/9/1996	32.95	17.11	--	15.84	-1.06	1000	--	44	20	10	34	150	--	
1/24/1997	32.95	16.36	0.00	16.59	0.75	4000	--	190	400	160	430	600	--	
7/23/1997	32.95	18.08	0.00	14.87	-1.72	1700	--	200	23	18	45	2500	--	
1/26/1998	32.95	16.27	--	16.68	1.81	ND	--	ND	ND	ND	ND	ND	--	
7/3/1998	32.95	17.27	--	15.68	-1.00	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.95	17.55	--	15.40	-0.28	330	--	61	4.1	2.2	2.9	560	--	
7/15/1999	32.95	16.41	--	16.54	1.14	1100	--	170	ND	ND	27	660	--	
1/7/2000	32.95	17.85	--	15.10	-1.44	1000	--	180	6.3	ND	14	430	--	

Table 2
HISTORICAL GROUNDWATER RESULTS

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/19/2000	32.95	18.87	--	14.08	-1.02	2980	--	289	57.3	65.3	43.4	976	--	
1/2/2001	32.95	18.47	--	14.48	0.40	1150	--	87.2	17.8	7.97	9.32	368	--	
5/23/2001	32.95	17.38	--	15.57	1.09	840	--	42	10	13	7.1	130	--	
7/30/2001	32.95	17.12	--	15.83	0.26	1900	--	82	24	6.9	13	370	--	
10/15/2001	32.95	17.33	--	15.62	-0.21	26000	--	390	230	58	1300	<500	--	
1/14/2002	32.95	15.33	--	17.62	2.00	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.95	15.89	--	17.06	-0.56	310	--	20	6.7	11	7.7	77	--	
7/15/2002	32.95	16.21	--	16.74	-0.32	1500	--	40	22	60	28	170	--	
1/18/2003	32.95	15.68	--	17.27	0.53	<50	--	0.75	<0.50	<0.50	<1.0	81	--	
7/11/2003	32.95	16.29	--	16.66	-0.61	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.6	
2/4/2004	32.95	16.08	0.00	16.87	0.21	--	82	16	1.6	0.65	<1.0	--	16	
8/11/2004	32.95	16.38	0.00	16.57	-0.30	--	900	81	14	2.8	11	--	120	
3/31/2005	32.95	14.30	0.00	18.65	2.08	--	5000	160	84	65	72	--	140	
9/30/2005	32.95	16.19	0.00	16.76	-1.89	--	1200	26	5.8	2.4	9.2	--	38	
3/27/2006	32.95	13.90	0.00	19.05	2.29	--	1100	13	12	4.7	16	--	8.8	
9/27/2006	32.95	17.06	0.00	15.89	-3.16	--	1300	20	11	2.3	15	--	21	
3/27/2007	32.95	17.43	0.00	15.52	-0.37	--	960	15	7.8	2.2	11	--	14	
9/28/2007	32.95	18.25	0.00	14.70	-0.82	--	1300	13	6.0	2.3	15	--	8.4	
3/26/2008	32.95	17.82	0.00	15.13	0.43	--	1200	7.6	3.3	1.8	11	--	2.7	
7/28/2008	32.95	18.70	0.00	14.25	-0.88	--	2000	12	4.9	3.2	17	--	<0.50	
1/26/2009	32.95	19.25	0.00	13.70	-0.55	--	1400	7.4	3.3	2.5	11	--	3.3	
8/3/2009	32.98	18.62	0.00	14.36	0.66	--	1500	17	9.0	3.5	22	--	7.3	
1/25/2010	32.98	18.34	0.00	14.64	0.28	--	1600	7.6	3.6	2.4	15	--	1.7	
8/3/2010	32.98	18.07	0.00	14.91	0.27	--	2200	32	32	10	48	--	10	
2/17/2011	32.98	18.05	0.00	14.93	0.02	--	1800	33	7.4	<0.50	11	--	15	
8/3/2011	32.98	17.57	0.00	15.41	0.48	--	2,500	58	23	12	34	--	40	
MW-6														
10/19/1992	--	--	--	--	--	3900	--	420	12	60	28	--	--	
12/21/1992	32.42	19.17	--	13.25	--	2300	--	370	11	39	15	--	--	
4/28/1993	32.42	--	--	--	--	1200	--	54	1.5	11	5.3	--	--	
7/23/1993	32.42	18.17	--	14.25	--	580	--	19	0.99	3.4	2.7	--	--	
10/5/1993	32.16	18.35	--	13.81	-0.44	1400	--	34	ND	5.3	7.3	--	--	
1/3/1994	32.16	18.54	--	13.62	-0.19	1400	--	57	ND	8.5	11	--	--	
4/2/1994	32.16	18.15	--	14.01	0.39	5300	--	ND	ND	ND	ND	--	--	

Table 2
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/5/1994	32.16	17.25	--	14.91	0.90	ND	--	ND	ND	ND	ND	--	--	
10/6/1994	32.16	18.85	--	13.31	-1.60	11000	--	ND	ND	ND	ND	--	--	
1/2/1995	32.16	17.51	--	14.65	1.34	550	--	18	0.92	2.0	1.8	--	--	
4/3/1995	32.16	15.48	--	16.68	2.03	6600	--	ND	ND	ND	ND	--	--	
7/14/1995	32.16	16.63	--	15.53	-1.15	ND	--	ND	ND	ND	ND	--	--	
10/10/1995	32.16	17.68	--	14.48	-1.05	ND	--	81	ND	ND	ND	75000	--	
1/3/1996	32.16	17.66	--	14.50	0.02	70	--	9.9	0.58	ND	0.81	--	--	
4/10/1996	32.16	15.56	--	16.60	2.10	300	--	258	4.7	0.94	2.7	53000	--	
7/9/1996	32.16	16.59	--	15.57	-1.03	1800	--	410	ND	12	ND	76000	--	
1/24/1997	32.16	15.69	0.00	16.47	0.90	ND	--	0.80	ND	ND	ND	390	--	
7/23/1997	32.16	17.53	0.00	14.63	-1.84	5700	--	1100	240	240	700	16000	--	
1/26/1998	32.16	15.44	--	16.72	2.09	ND	--	ND	ND	ND	ND	ND	--	
7/3/1998	32.16	16.58	--	15.58	-1.14	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.16	17.02	--	15.14	-0.44	ND	--	ND	ND	ND	ND	14	--	
7/15/1999	32.16	15.95	--	16.21	1.07	ND	--	ND	ND	ND	ND	2.8	--	
1/7/2000	32.16	16.96	--	15.20	-1.01	78	--	24	ND	0.66	17	280	--	
7/19/2000	32.16	18.04	--	14.12	-1.08	ND	--	ND	1.32	ND	0.974	ND	--	
1/2/2001	32.16	18.10	--	14.06	-0.06	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.16	16.42	--	15.74	1.68	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.16	16.49	--	15.67	-0.07	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
10/15/2001	32.16	16.67	--	15.49	-0.18	<50	--	<0.50	0.62	<0.50	<0.50	<5.0	--	
1/14/2002	32.16	14.60	--	17.56	2.07	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.16	15.07	--	17.09	-0.47	<50	--	<0.50	<0.50	<0.50	0.73	<5.0	--	
7/15/2002	32.16	15.56	--	16.60	-0.49	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	
1/18/2003	32.16	15.80	--	16.36	-0.24	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.16	15.74	--	16.42	0.06	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	
2/4/2004	32.16	15.49	0.00	16.67	0.25	--	<50	2.6	<0.50	<0.50	<1.0	--	2.4	
8/11/2004	32.16	15.81	0.00	16.35	-0.32	--	7900	95	<50	<50	<100	--	9100	
3/31/2005	32.16	13.70	0.00	18.46	2.11	--	<5000	2.5	<0.50	<0.50	<1.0	--	7600	
9/30/2005	32.16	15.48	0.00	16.68	-1.78	--	4300	140	37	28	41	--	5800	
3/27/2006	32.16	13.02	0.00	19.14	2.46	--	7200	34	0.66	0.96	18	--	9900	
9/27/2006	32.16	16.56	0.00	15.60	-3.54	--	1800	<12	<12	<12	<12	--	3300	
3/27/2007	32.16	16.73	0.00	15.43	-0.17	--	1600	2.8	<2.5	<2.5	<2.5	--	1800	
9/28/2007	32.16	17.75	0.00	14.41	-1.02	--	830	<5.0	<5.0	<5.0	<5.0	--	1600	

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3/26/2008	32.16	17.31	0.00	14.85	0.44	--	940	45	5.9	2.0	5.3	--	1300	
7/28/2008	32.16	18.50	0.00	13.66	-1.19	--	500	<1.0	<1.0	<1.0	<2.0	--	750	
1/26/2009	32.16	18.46	0.00	13.70	0.04	--	570	<0.50	<0.50	<0.50	<1.0	--	500	
8/3/2009	32.19	18.01	0.00	14.18	0.48	--	800	<5.0	<5.0	<5.0	<10	--	690	
1/25/2010	32.19	17.64	0.00	14.55	0.37	--	410	4.8	0.63	<0.50	1.4	--	390	
8/3/2010	32.19	17.48	0.00	14.71	0.16	--	480	2.0	<0.50	<0.50	<1.0	--	520	
2/17/2011	32.19	17.48	0.00	14.71	0.00	--	290	<0.50	<0.50	<0.50	<1.0	--	130	
8/3/2011	32.19	17.02	0.00	15.17	0.46	--	330	<0.50	<0.50	<0.50	<1.0	--	89	
MW-7														
10/19/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	
4/28/1993	32.49	--	--	--	--	110	--	2.8	1.3	1.4	1.7	--	--	
7/23/1993	32.49	18.60	--	13.89	--	790	--	23	3.3	28	5.4	--	--	
10/5/1993	32.20	18.76	--	13.44	-0.45	360	--	10	1.2	0.91	0.99	--	--	
1/3/1994	32.20	18.91	--	13.29	-0.15	ND	--	0.93	ND	0.75	1.9	--	--	
4/2/1994	32.20	18.50	--	13.70	0.41	360	--	2.0	ND	ND	0.8	--	--	
7/5/1994	32.20	17.52	--	14.68	0.98	ND	--	ND	ND	ND	ND	--	--	
10/6/1994	32.20	19.25	--	12.95	-1.73	340	--	5.6	0.85	ND	1.2	--	--	
1/2/1995	32.20	17.67	--	14.53	1.58	ND	--	ND	ND	ND	ND	--	--	
4/3/1995	32.20	15.81	--	16.39	1.86	570	--	24	ND	3.4	5.8	--	--	
7/14/1995	32.20	17.05	--	15.15	-1.24	ND	--	14	ND	ND	ND	--	--	
10/10/1995	32.20	18.08	--	14.12	-1.03	740	--	170	ND	ND	ND	13000	--	
1/3/1996	32.20	18.02	--	14.18	0.06	360	--	16	1.3	2.7	1.4	--	--	
4/10/1996	32.20	15.81	--	16.39	2.21	120	--	4.1	1.5	ND	0.88	3200	--	
7/9/1996	32.20	16.99	--	15.21	-1.18	ND	--	ND	ND	ND	ND	3400	--	
1/24/1997	32.20	16.08	0.00	16.12	0.91	ND	--	16	ND	ND	ND	6600	--	
7/23/1997	32.20	17.99	0.00	14.21	-1.91	ND	--	16	ND	ND	0.62	10000	--	
1/26/1998	32.20	15.56	--	16.64	2.43	ND	--	ND	ND	ND	0.56	ND	--	
7/3/1998	32.20	17.04	--	15.16	-1.48	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.20	--	--	--	--	--	--	--	--	--	--	--	--	essible-parke
7/15/1999	32.20	15.72	--	16.48	--	ND	--	ND	ND	ND	ND	290	--	
1/7/2000	32.20	16.80	--	15.40	-1.08	ND	--	7.7	ND	ND	4.4	98	--	
7/19/2000	32.20	17.88	--	14.32	-1.08	ND	--	ND	1.27	ND	0.979	ND	--	
1/2/2001	32.20	17.97	--	14.23	-0.09	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.20	16.81	--	15.39	1.16	ND	--	ND	ND	ND	ND	ND	--	

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/30/2001	32.20	16.79	--	15.41	0.02	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
10/15/2001	32.20	16.98	--	15.22	-0.19	<50	--	<0.50	0.58	<0.50	<0.50	<5.0	--	
1/14/2002	32.20	14.85	--	17.35	2.13	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.20	15.29	--	16.91	-0.44	<50	--	<0.50	<0.50	<0.50	0.70	<5.0	--	
7/15/2002	32.20	15.92	--	16.28	-0.63	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	
1/18/2003	32.20	15.11	--	17.09	0.81	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.20	15.89	--	16.31	-0.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	19	
2/4/2004	32.20	15.90	0.00	16.30	-0.01	--	<50	3.6	<0.50	<0.50	<1.0	--	3.2	
8/11/2004	32.20	16.12	0.00	16.08	-0.22	--	<5000	120	<50	<50	<100	--	5100	
3/31/2005	32.20	13.99	0.00	18.21	2.13	--	<5000	190	<50	<50	<100	--	8400	
9/30/2005	32.20	15.93	0.00	16.27	-1.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
3/27/2006	32.20	13.40	0.00	18.80	2.53	--	2500	160	10	11	26	--	5600	
9/27/2006	32.20	16.96	0.00	15.24	-3.56	--	2800	180	<12	15	44	--	4200	
3/27/2007	32.20	17.30	0.00	14.90	-0.34	--	920	66	2.9	3.4	4.5	--	970	
9/28/2007	32.20	18.10	0.00	14.10	-0.80	--	4000	440	15	17	59	--	3300	
3/26/2008	32.20	17.64	0.00	14.56	0.46	--	390	39	3.3	0.85	7.5	--	96	
7/28/2008	32.20	18.50	0.00	13.70	-0.86	--	64	3.3	<0.50	<0.50	<1.0	--	8.7	
1/26/2009	32.20	18.90	0.00	13.30	-0.40	--	80	7.9	0.58	<0.50	<1.0	--	10	
8/3/2009	32.22	18.29	0.00	13.93	0.63	--	2100	220	14	10	31	--	750	
1/25/2010	32.22	17.49	0.00	14.73	0.80	--	490	25	3.5	0.54	6.9	--	16	
8/3/2010	32.22	17.84	0.00	14.38	-0.35	--	240	45	1.8	1.2	1.7	--	290	
2/17/2011	32.22	17.83	0.00	14.39	0.01	--	370	53	2.0	<0.50	2.1	--	12	
8/3/2011	32.22	17.42	0.00	14.80	0.41	--	390	20	1.8	<0.50	1.6	--	27	
MW-8														
4/28/1993	32.33	--	--	--	--	450	--	18	1.8	1.8	1.4	--	--	
7/23/1993	32.33	18.45	--	13.88	--	260	--	5.1	ND	0.6	ND	--	--	
10/5/1993	32.00	18.57	--	13.43	-0.45	120	--	1.7	ND	ND	ND	--	--	
1/3/1994	32.00	18.73	--	13.27	-0.16	ND	--	ND	ND	ND	ND	51	--	
4/2/1994	32.00	18.30	--	13.70	0.43	150	--	1.2	ND	ND	ND	--	--	
7/5/1994	32.00	17.41	--	14.59	0.89	730	--	17	ND	1.6	ND	--	--	
10/6/1994	32.00	18.98	--	13.02	-1.57	140	--	ND	ND	ND	ND	--	--	
1/2/1995	32.00	17.58	--	14.42	1.40	440	--	18	0.72	2.0	1.8	--	--	
4/3/1995	32.00	15.54	--	16.46	2.04	960	--	11	ND	ND	ND	--	--	
7/14/1995	32.00	16.81	--	15.19	-1.27	280	--	4.2	2.6	1.1	3.3	--	--	

Table 2
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August 3, 2011
76 Station 0752

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
10/10/1995	32.00	17.85	--	14.15	-1.04	110	--	1.3	0.62	0.67	ND	170	--	
1/3/1996	32.00	17.82	--	14.18	0.03	63	--	ND	0.51	ND	1.8	--	--	
4/10/1996	32.00	15.70	--	16.30	2.12	ND	--	1.1	0.61	ND	ND	60	--	
7/9/1996	32.00	16.78	--	15.22	-1.08	72	--	1.0	ND	ND	ND	140	--	
1/24/1997	32.00	15.79	0.00	16.21	0.99	ND	--	ND	ND	ND	ND	76	--	
7/23/1997	32.00	17.69	0.00	14.31	-1.90	ND	--	ND	ND	ND	ND	270	--	
1/26/1998	32.00	15.50	--	16.50	2.19	ND	--	ND	ND	ND	0.76	2.9	--	
7/3/1998	32.00	16.80	--	15.20	-1.30	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.00	17.13	--	14.87	-0.33	ND	--	ND	ND	ND	ND	11	--	
7/15/1999	32.00	15.85	--	16.15	1.28	ND	--	ND	ND	ND	ND	ND	--	
1/7/2000	32.00	16.94	--	15.06	-1.09	ND	--	ND	ND	ND	ND	11	--	
7/19/2000	32.00	18.06	--	13.94	-1.12	ND	--	ND	2.99	0.521	ND	ND	--	
1/2/2001	32.00	18.12	--	13.88	-0.06	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.00	16.96	--	15.04	1.16	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.00	16.52	--	15.48	0.44	<50	--	<0.50	<0.50	<0.50	<0.50	2.7	--	
10/15/2001	32.00	16.72	--	15.28	-0.20	<50	--	<0.50	0.65	<0.50	<0.50	<5.0	--	
1/14/2002	32.00	14.53	--	17.47	2.19	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.00	14.96	--	17.04	-0.43	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	
7/15/2002	32.00	15.60	--	16.40	-0.64	<50	--	<0.50	<0.50	<0.50	<1.0	11	--	
1/18/2003	32.00	14.78	--	17.22	0.82	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
2/4/2004	32.00	15.65	0.00	16.35	-0.87	--	52	2.3	<0.50	<0.50	<1.0	--	2.4	
8/11/2004	32.00	15.86	0.00	16.14	-0.21	--	350	<2.5	<2.5	<2.5	<5.0	--	310	
3/31/2005	32.00	13.73	0.00	18.27	2.13	--	<2000	<0.50	<0.50	<0.50	<1.0	--	2100	
9/30/2005	32.00	15.94	0.00	16.06	-2.21	--	1200	<0.50	0.50	<0.50	<1.0	--	6900	
3/27/2006	32.00	13.13	0.00	18.87	2.81	--	460	<0.50	<0.50	<0.50	<1.0	--	820	
9/27/2006	32.00	16.75	0.00	15.25	-3.62	--	520	<5.0	<5.0	<5.0	8.2	--	870	
3/27/2007	32.00	16.87	0.00	15.13	-0.12	--	1400	<0.50	<0.50	<0.50	<0.50	--	3600	
9/28/2007	32.00	17.91	0.00	14.09	-1.04	--	280	<2.5	<2.5	<2.5	<2.5	--	670	
3/26/2008	32.00	17.45	0.00	14.55	0.46	--	110	<0.50	<0.50	<0.50	<1.0	--	210	
7/28/2008	32.00	18.50	0.00	13.50	-1.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	11	
1/26/2009	32.00	18.65	0.00	13.35	-0.15	--	<50	<0.50	<0.50	<0.50	<1.0	--	22	
8/3/2009	32.03	18.11	0.00	13.92	0.57	--	67	<0.50	<0.50	<0.50	<1.0	--	64	
1/25/2010	32.03	17.67	0.00	14.36	0.44	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	
8/3/2010	32.03	17.58	0.00	14.45	0.09	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 2011
76 Station 0752

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
2/17/2011	32.03	17.53	0.00	14.50	0.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	
8/3/2011	32.03	17.18	0.00	14.85	0.35	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.6	

ARCADIS

Attachment C

Laboratory Reports and Chain-of-Custody Documentation

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 03/08/2013

Kathy Brandt

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Project:	0752
BC Work Order:	1304072
Invoice ID:	B141429

Enclosed are the results of analyses for samples received by the laboratory on 2/27/2013. 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

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CHK BY: BLT

DISTRIBUTION: WHITE, CANARY, PINK, GOLDENROD, SUBOUT

CHAIN OF CUSTODY FORM

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

#1304072

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

COC 1 of 2

Union Oil Site ID: 0752
Site Global ID: T0600101486
Site Address: 800 HARRISON ST. OAKLAND, CA
CHEVRON Oil PM: ROYA KAMBIN
CHEVRON PM Phone No.: (925) 790-6270
Charge Code: NWRTB-0351646-0-LAB

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

Union Oil Consultant: ARCADIS
Consultant Contact: KATHERINE BRANDT
Consultant Phone No.: (510) 596-9675
Sampling Company: [redacted] GETTLER-RYAN
Sampled By (PRINT): FRANK T., ALEX W. & ALEX M.
Sampler Signature:

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

SAMPLE ID						ANALYSES REQUIRED												
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by [redacted] 8015 (8260)	BTEX/MTBE/[redacted] by EPA 8260	Ethanol by EPA 8260	EPA 8260B Full List with OXYS	SVOCS (8270) (cd,cr,pb,Ni,Zn) (6010)	DISSOLVED METALS	METHANE (RSK-175)	TOC (9060)	EDB/EDC (8260)	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ALKALINITY	Notes / Comments
-1 QA	W-S-A		12.2.27		2		X	X									
-2 MW-1	W-S-A			1315	14		X	X	X		X	X	X	X	X	X	
-3 MW-2	W-S-A			1222	11		X	X	X				X	X	X	X	
-4 MW-3	W-S-A			1420	11		X	X	X				X	X	X	X	
-5 MW-4	W-S-A			1125	11		X	X	X				X	X	X	X	
-6 MW-5	W-S-A			1405	11		X	X	X				X	X	X	X	
-7 MW-6	W-S-A			1340	11		X	X	X				X	X	X	X	
-8 MW-7	W-S-A			0715	11		X	X	X				X	X	X	X	
-9 MW-8	W-S-A			0635	11		X	X	X				X	X	X	X	
-10 A-MW-2	W-S-A			1140	11		X	X	X				X	X	X	X	
-11 A-MW-3	W-S-A			1225	11		X	X	X				X	X	X	X	
-12 A-MW-5	W-S-A		▽	0937	11		X	X	X				X	X	X	X	

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

Special Instructions

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:
[signature]	G-R	2-27-13 1500	[signature] Bclab		2-27-13 1830	[signature]	BCLAB	2-27-13 21:30
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
[signature] Bclab		2-27-13 1500	[signature]	BCLAB	2-27-13 18:30	[signature]	Bclab	2-27-13 2130

CHAIN OF CUSTODY FORM

1304072

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

COC 2 of 2

Union Oil Site ID: 0752	Union Oil Consultant: ARCADIS
Site Global ID: T0600101486	Consultant Contact: KATHERINE BRANDT
Site Address: 800 HARRISON ST. OAKLAND, CA	Consultant Phone No.: (510) 596-9675
CHEVRON Oil PM: ROYA KAMBIN	Sampling Company: GETTLER-RYAN
CHEVRON Oil PM Phone No.: (925) 790-6270	Sampled By (PRINT): FRANK T., ALEX W. & ALEX M.
Charge Code: NWRTB-0351646-0-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

ANALYSES REQUIRED

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

Special Instructions

SAMPLE ID: Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by [redacted] (C6-C12) (8015B)	BTEX/MTBE by [redacted] by EPA 8260[redacted]	Ethanol by EPA 8260[redacted]	EPA 8260B Full List with OXYS	METHANE	TOC (H2SO4)	EDB/EDC (8260)	DISSOLVED IRON/NITRATE/NITRITE/SULFATE/ALKALINITY			Notes / Comments
-13 A-MW-[redacted]6	W-S-A		13 2 27	0850	11		X	X	X		X	X	X	X			
-14 A-MW-7	W-S-A			1038	11		X	X	X		X	X	X	X			
-15 S-MW-1	W-S-A			0900	11		X	X	X		X	X	X	X			
-16 S-MW-2	W-S-A			1050	11		X	X	X		X	X	X	X			
-17 S-MW-3	W-S-A			0740	11		X	X	X		X	X	X	X			
-18 S-MW-4	W-S-A			0700	11		X	X	X		X	X	X	X			
-19 S-MW-6	W-S-A			0820	11		X	X	X		X	X	X	X			
-20 S-EW-1	W-S-A			1005	11		X	X	X		X	X	X	X			
	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:
	BC Lab	2-27-13 1500	Harry Bogan	BC Lab	2-27-13 1830		BC LAB	2-27-13 21:30
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
Harry Bogan	BC Lab	2-27-13 1500		BC LAB	2-27-13 18:30	KAM	BC Lab	2-27-13 2130

Chain of Custody and Cooler Receipt Form for 1304072 Page 3 of 9

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

Submission #: 1304072

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: VOA Thermometer ID: 207

Temperature: (A) 4.5 °C / (C) 4.6 °C

Date/Time 2-27-13

Analyst Init JLW 2130

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A (2)									
40ml VOA VIAL		A (6)	A (6)	A (6)	A (6)	A (6)	A (6)	A (6)	A (6)	A (6)
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- ~~564~~ unpre.		B (3)	B (3)	B (3)	B (3)	B (3)	B (3)	B (3)	B (3)	B (3)
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments: -17D was cracked & transferred into another Pt Amber in lab.

Sample Numbering Completed By: BLT Date/Time: 2/28/13 @ 0830

A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1304072 Page 4 of 9

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 2 of 7

Submission #: 1304072

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: VOA Thermometer ID: 207 Date/Time 2-27-13

Temperature: (A) 4.5 °C / (C) 4.6 °C Analyst Init JDW 2130

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10 Z0
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A HCl	A HCl	A HCl	A HCl	A HCl	A HCl	A HCl	A HCl	A HCl	A HCl
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504 unpre.	B (3)	B (3)	B (3)	B (3)	B (3)	B (3)	B (3)	B (3)	B (3)	B (3)
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/28/13 @ 0830

Chain of Custody and Cooler Receipt Form for 1304072 Page 5 of 9

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 3 Of 7

Submission #: 1304072

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

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

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Cape Thermometer ID: 207

Temperature: (A) 3.9 °C / (C) 4.2 °C

Date/Time 2-27-13

Analyst Init JDW 2130

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	14	2	3	4	5	6	~~7~~ 8	~~8~~ 9	~~9~~ 12	~~10~~ 13
QT GENERAL MINERAL/ GENERAL PHYSICAL	C	C	C	C	C	C	C	C	C	C
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/28/13 @ 0830

A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1304072 Page 6 of 9

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 4 Of 7

Submission #: 1304072

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: 0.97 Container: QTA Thermometer ID: 207

Temperature: (A) 1.7 °C / (C) 1.8 °C

Date/Time 2-27-13

Analyst Init JLW 2130

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3-4	4	5	6-7	7	8	8-11	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON			D			D			D	D
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/28/13 @ 0830

A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1304072 Page 7 of 9

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 5 of 7

Submission #: 1304072

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: 0.97 Container: QTA Thermometer ID: 207 Date/Time 2-27-13

Temperature: (A) 0.5 °C / (C) 0.6 °C Analyst Init JNW 2130

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

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/28/13 0830

Chain of Custody and Cooler Receipt Form for 1304072 Page 8 of 9

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 13 08/17/12 Page 6 of 7

Submission #: 1304072

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

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

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

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

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

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Qt PE Thermometer ID: 207
Temperature: (A) 3.7 °C / (C) 3.4.0 °C JDW 2/27
Date/Time 2-27-13
Analyst Init JDW 2130

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2 10	3 7	4	5	6	7	8	9	TO 20
QT GENERAL MINERAL/ GENERAL PHYSICAL	C				C	C	C	C	C	C
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments:
Sample Numbering Completed By: BLT Date/Time: 2/28/13@ 0830

X

Chain of Custody and Cooler Receipt Form for 1304072 Page 9 of 9

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

Submission #: 1304072

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: 0.97 Container: QTA Thermometer ID: 207 Date/Time 2-27-13

Temperature: (A) 0.5 °C / (C) 0.6 °C Analyst Init JNW 2130

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10 20
1T GENERAL MINERAL/ GENERAL PHYSICAL										
1T PE UNPRESERVED										
1T INORGANIC CHEMICAL METALS										
1T INORGANIC CHEMICAL METALS										
1T CYANIDE										
1T NITROGEN FORMS										
1T TOTAL SULFIDE										
1oz. NITRATE / NITRITE										
1T TOTAL ORGANIC CARBON		D	D	D	D	D	D	D		D
1T TOX										
1T CHEMICAL OXYGEN DEMAND										
1A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
1T EPA 413.1, 413.2, 418.1										
1T ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
1T EPA 508/608/8080										
1T EPA 515.1/8150										
1T EPA 525										
1T EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
1T EPA 548										
1T EPA 549										
1T EPA 632										
1T EPA 8015M										
1T AMBER										
8 OZ. JAR										
32 OZ. JAR		1								
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										

Comments:

Sample Numbering Completed By: BLT Date/Time: 2/28/13@0830

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1304072-01	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 00:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	QA-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Trip Blank
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): QA-W
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-02	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 13:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-1
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-03	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 12:22
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-2-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1304072-04	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 14:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-05	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 11:25
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-4-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-06	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 14:05
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-5-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1304072-07	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 13:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-6
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-08	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 07:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-7-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-7
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-09	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 06:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-8-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1304072-10	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 11:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	A-MW-2-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): A-MW-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-11	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 12:25
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	A-MW-3-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): A-MW-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-12	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 09:37
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	A-MW-5-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): A-MW-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Emeryville, CA 94608

Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1304072-13	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 08:50
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	A-MW-6-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): A-MW-6
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-14	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 10:38
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	A-MW-7-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): A-MW-7
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-15	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 09:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-MW-1-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): S-MW-1
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Emeryville, CA 94608

Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1304072-16	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 10:50
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-MW-2-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): S-MW-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-17	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 07:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-MW-3-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): S-MW-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1304072-18	**COC Number:**	---	**Receive Date:** 02/27/2013 21:30
	Project Number:	0752	**Sampling Date:** 02/27/2013 07:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	S-MW-4-W-130227	**Lab Matrix:** Water
	Sampled By:	GRD	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): S-MW-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Emeryville, CA 94608

Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1304072-19	**COC Number:**	---	**Receive Date:**	02/27/2013 21:30
	Project Number:	0752	**Sampling Date:**	02/27/2013 08:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-MW-6-W-130227	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Metal Analysis: 2-Lab Filtered and Acidified			
	Delivery Work Order:			
	Global ID: T0600101486			
	Location ID (FieldPoint): S-MW-6			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1304072-20	**COC Number:**	---	**Receive Date:**	02/27/2013 21:30
	Project Number:	0752	**Sampling Date:**	02/27/2013 10:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	S-EW-1-W-130227	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Metal Analysis: 2-Lab Filtered and Acidified			
	Delivery Work Order:			
	Global ID: T0600101486			
	Location ID (FieldPoint): S-EW-1			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-01 | **Client Sample Name:** 0752, QA-W-130227, 2/27/2013 12:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	02/28/13 23:23	EAR	MS-V12	1	BWB1884

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-01 | **Client Sample Name:** 0752, QA-W-130227, 2/27/2013 12:00:00AM

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)	88.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/06/13 18:00	jjh	GC-V9	1	BWC0214

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-02 | **Client Sample Name:** 0752, MW-1-W-130227, 2/27/2013 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**6.7**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 02:52	EAR	MS-V12	1	BWB1884

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1304072-02 | **Client Sample Name:** 0752, MW-1-W-130227, 2/27/2013 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1304072-02 | **Client Sample Name:** 0752, MW-1-W-130227, 2/27/2013 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	EPA-8270C	ND		1

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1304072-02 | **Client Sample Name:** 0752, MW-1-W-130227, 2/27/2013 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	32.0	%	30 - 120 (LCL - UCL)	EPA-8270C			1
Phenol-d5 (Surrogate)	23.6	%	12 - 110 (LCL - UCL)	EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	79.8	%	60 - 130 (LCL - UCL)	EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	85.5	%	55 - 125 (LCL - UCL)	EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	94.6	%	40 - 150 (LCL - UCL)	EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	64.4	%	40 - 150 (LCL - UCL)	EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/04/13	03/05/13 18:31	SKC	MS-B2	1	BWC0304

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Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-02 | **Client Sample Name:** 0752, MW-1-W-130227, 2/27/2013 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**50**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	98.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/06/13 18:42	jjh	GC-V9	1	BWC0214

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-02 | **Client Sample Name:** 0752, MW-1-W-130227, 2/27/2013 1:15:00PM

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 13:15	EAR	GC-V1	1	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-02 | **Client Sample Name:** 0752, MW-1-W-130227, 2/27/2013 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**56**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**1.2**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**9.0**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**0.87**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 11:11	RML	MET-1	1	BWC0032
2	EPA-300.0	02/28/13	02/28/13 14:27	LD1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:53	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/04/13 19:43	CDR	TOC2	1	BWC0106

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-02 | **Client Sample Name:** 0752, MW-1-W-130227, 2/27/2013 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Cadmium	ND	ug/L	10	EPA-6010B	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		1
Dissolved Iron	ND	ug/L	50	EPA-6010B	ND		1
Dissolved Lead	ND	ug/L	50	EPA-6010B	ND		1
Dissolved Nickel	ND	ug/L	10	EPA-6010B	ND		1
Dissolved Zinc	ND	ug/L	10	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 08:48	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-03 | **Client Sample Name:** 0752, MW-2-W-130227, 2/27/2013 12:22:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**9.6**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.4	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 03:09	EAR	MS-V12	1	BWB1884

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-03 | **Client Sample Name:** 0752, MW-2-W-130227, 2/27/2013 12:22:00PM

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)	97.2	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/06/13 19:02	jjh	GC-V9	1	BWC0214

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-03 | **Client Sample Name:** 0752, MW-2-W-130227, 2/27/2013 12:22:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.055**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 13:22	EAR	GC-V1	1	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-03 | **Client Sample Name:** 0752, MW-2-W-130227, 2/27/2013 12:22:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**320**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**16**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**160**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	**0.24**	**mg/L**	**0.17**	**EPA-353.2**	ND		3
Non-Volatile Organic Carbon	**2.1**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 11:16	RML	MET-1	1	BWC0032
2	EPA-300.0	02/28/13	02/28/13 15:13	LD1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:53	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/04/13 19:56	CDR	TOC2	1	BWC0106

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-03 | **Client Sample Name:** 0752, MW-2-W-130227, 2/27/2013 12:22:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**56**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 08:56	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-04 | **Client Sample Name:** 0752, MW-3-W-130227, 2/27/2013 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**4.4**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	**2.8**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Methyl t-butyl ether	**820**	**ug/L**	**5.0**	**EPA-8260B**	ND	**A01**	2
Toluene	**0.69**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	91.3	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	90.5	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	123	%	80 - 120 (LCL - UCL)	EPA-8260B		S09	1
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 03:27	EAR	MS-V12	1	BWB1884
2	EPA-8260B	03/04/13	03/04/13 12:01	EAR	MS-V12	10	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-04 | **Client Sample Name:** 0752, MW-3-W-130227, 2/27/2013 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**1600**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	223	%	70 - 130 (LCL - UCL)	EPA-8015B		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/07/13 13:21	jjh	GC-V9	1	BWC0214

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-04 | **Client Sample Name:** 0752, MW-3-W-130227, 2/27/2013 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**4.4**	**mg/L**	**0.020**	**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 15:00	EAR	GC-V1	20	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-04 | **Client Sample Name:** 0752, MW-3-W-130227, 2/27/2013 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**390**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**4.5**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**4.0**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 11:25	RML	MET-1	1	BWC0032
2	EPA-300.0	02/28/13	02/28/13 15:25	LD1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:53	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/04/13 20:09	CDR	TOC2	1	BWC0106

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-04 | **Client Sample Name:** 0752, MW-3-W-130227, 2/27/2013 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**8400**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 08:58	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-05 | **Client Sample Name:** 0752, MW-4-W-130227, 2/27/2013 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**1.1**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 03:44	EAR	MS-V12	1	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-05 | **Client Sample Name:** 0752, MW-4-W-130227, 2/27/2013 11:25:00AM

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)	82.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/06/13 19:44	jjh	GC-V9	1	BWC0214

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-05 | **Client Sample Name:** 0752, MW-4-W-130227, 2/27/2013 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0023**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 13:39	EAR	GC-V1	1	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-05 | **Client Sample Name:** 0752, MW-4-W-130227, 2/27/2013 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**130**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**9.7**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**25**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**0.89**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 11:34	RML	MET-1	1	BWC0032
2	EPA-300.0	02/28/13	02/28/13 15:36	LD1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:53	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/04/13 20:23	CDR	TOC2	1	BWC0106

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-05 | **Client Sample Name:** 0752, MW-4-W-130227, 2/27/2013 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:00	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-06 | **Client Sample Name:** 0752, MW-5-W-130227, 2/27/2013 2:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**58**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	**2.4**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Methyl t-butyl ether	**8.0**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	**11**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Total Xylenes	**13**	**ug/L**	**1.0**	**EPA-8260B**	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	111	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 04:02	EAR	MS-V12	1	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-06 | **Client Sample Name:** 0752, MW-5-W-130227, 2/27/2013 2:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**1300**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	125	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/06/13 20:05	jjh	GC-V9	1	BWC0214

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-06 | **Client Sample Name:** 0752, MW-5-W-130227, 2/27/2013 2:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**1.9**	**mg/L**	**0.010**	**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 15:12	EAR	GC-V1	10	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-06 | **Client Sample Name:** 0752, MW-5-W-130227, 2/27/2013 2:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**200**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**24**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**2.1**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 11:40	RML	MET-1	1	BWC0032
2	EPA-300.0	02/28/13	02/28/13 15:48	LD1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:53	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/04/13 20:36	CDR	TOC2	1	BWC0106

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-06 | **Client Sample Name:** 0752, MW-5-W-130227, 2/27/2013 2:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**860**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:06	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-07 | **Client Sample Name:** 0752, MW-6-W-130227, 2/27/2013 1:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**2.4**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 04:19	EAR	MS-V12	1	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-07 | **Client Sample Name:** 0752, MW-6-W-130227, 2/27/2013 1:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**77**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	87.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/06/13 20:26	jjh	GC-V9	1	BWC0214

Arcadis
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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-07 | **Client Sample Name:** 0752, MW-6-W-130227, 2/27/2013 1:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.19**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 14:03	EAR	GC-V1	1	BWC0167

Arcadis
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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-07 | **Client Sample Name:** 0752, MW-6-W-130227, 2/27/2013 1:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**99**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**0.45**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**13**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**0.75**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 12:03	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 16:22	LS1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:59	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/04/13 21:16	CDR	TOC2	1	BWC0106

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-07 | **Client Sample Name:** 0752, MW-6-W-130227, 2/27/2013 1:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:08	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-08 | **Client Sample Name:** 0752, MW-7-W-130227, 2/27/2013 7:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**3.8**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 04:37	EAR	MS-V12	1	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-08 | **Client Sample Name:** 0752, MW-7-W-130227, 2/27/2013 7:15:00AM

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)	95.9	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/06/13 20:46	jjh	GC-V9	1	BWC0214

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-08 | **Client Sample Name:** 0752, MW-7-W-130227, 2/27/2013 7:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.13**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 15:25	EAR	GC-V1	1	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-08 | **Client Sample Name:** 0752, MW-7-W-130227, 2/27/2013 7:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**140**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**38**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**1.1**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 12:15	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 16:34	LS1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:59	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/04/13 21:56	CDR	TOC2	1	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-08 | **Client Sample Name:** 0752, MW-7-W-130227, 2/27/2013 7:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**1000**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:09	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-09 | **Client Sample Name:** 0752, MW-8-W-130227, 2/27/2013 6:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 04:54	EAR	MS-V12	1	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-09 | **Client Sample Name:** 0752, MW-8-W-130227, 2/27/2013 6:35:00AM

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)	95.1	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/05/13	03/06/13 22:51	jjh	GC-V9	1	BWC0214

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-09 | **Client Sample Name:** 0752, MW-8-W-130227, 2/27/2013 6:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0027**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 15:32	EAR	GC-V1	1	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-09 | **Client Sample Name:** 0752, MW-8-W-130227, 2/27/2013 6:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**190**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**49**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**2.7**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 12:21	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 16:46	LS1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:59	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/04/13 22:50	CDR	TOC2	1	BWC0107

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-09 | **Client Sample Name:** 0752, MW-8-W-130227, 2/27/2013 6:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**1400**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:11	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-10 | **Client Sample Name:** 0752, A-MW-2-W-130227, 2/27/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1700**	**ug/L**	**12**	**EPA-8260B**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		2
1,2-Dichloroethane	**1.0**	**ug/L**	**0.50**	**EPA-8260B**	ND		2
Ethylbenzene	**1200**	**ug/L**	**12**	**EPA-8260B**	ND	**A01**	1
Methyl t-butyl ether	**2700**	**ug/L**	**25**	**EPA-8260B**	ND	**A01**	3
Toluene	**2500**	**ug/L**	**25**	**EPA-8260B**	ND	**A01**	3
Total Xylenes	**4900**	**ug/L**	**25**	**EPA-8260B**	ND	**A01**	1
Ethanol	ND	ug/L	250	EPA-8260B	ND		2
1,2-Dichloroethane-d4 (Surrogate)	93.1	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	115	%	75 - 125 (LCL - UCL)	EPA-8260B			2
1,2-Dichloroethane-d4 (Surrogate)	84.8	%	75 - 125 (LCL - UCL)	EPA-8260B			3
Toluene-d8 (Surrogate)	94.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	106	%	80 - 120 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	94.3	%	80 - 120 (LCL - UCL)	EPA-8260B			3
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	124	%	80 - 120 (LCL - UCL)	EPA-8260B		S09	2
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)	EPA-8260B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	03/04/13	03/04/13 12:36	EAR	MS-V12	25	BWB1884
2	EPA-8260B	02/28/13	03/01/13 05:12	EAR	MS-V12	1	BWB1884
3	EPA-8260B	03/05/13	03/05/13 16:05	EAR	MS-V12	50	BWB1884

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-10 | **Client Sample Name:** 0752, A-MW-2-W-130227, 2/27/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**45000**	**ug/L**	**2500**	**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	105	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 11:38	jjh	GC-V9	50	BWC0299

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-10 | **Client Sample Name:** 0752, A-MW-2-W-130227, 2/27/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**4.9**	**mg/L**	**0.050**	**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 12:26	EAR	GC-V1	50	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-10 | **Client Sample Name:** 0752, A-MW-2-W-130227, 2/27/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**530**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**4.1**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**16**	**mg/L**	**6.0**	**EPA-415.1**	ND	**A10**	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 12:28	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 16:57	LS1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:59	TMS	KONE-1	1	BWC0122
4	EPA-415.1	03/04/13	03/05/13 15:40	CDR	TOC2	20	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-10 | **Client Sample Name:** 0752, A-MW-2-W-130227, 2/27/2013 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**9500**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:13	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-11 | **Client Sample Name:** 0752, A-MW-3-W-130227, 2/27/2013 12:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**1.2**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	120	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 17:10	EAR	MS-V12	1	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-11 | **Client Sample Name:** 0752, A-MW-3-W-130227, 2/27/2013 12:25:00PM

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)	97.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 11:17	jjh	GC-V9	1	BWC0299

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-11 | **Client Sample Name:** 0752, A-MW-3-W-130227, 2/27/2013 12:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0029**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 15:50	EAR	GC-V1	1	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-11 | **Client Sample Name:** 0752, A-MW-3-W-130227, 2/27/2013 12:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**130**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**39**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**52**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**1.1**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 12:38	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 17:09	LS1	IC1	1	BWB2007
3	EPA-353.2	02/28/13	02/28/13 15:59	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/04/13 23:17	CDR	TOC2	1	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-11 | **Client Sample Name:** 0752, A-MW-3-W-130227, 2/27/2013 12:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:15	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-12 | **Client Sample Name:** 0752, A-MW-5-W-130227, 2/27/2013 9:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 05:47	EAR	MS-V12	1	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-12 | **Client Sample Name:** 0752, A-MW-5-W-130227, 2/27/2013 9:37:00AM

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)	96.1	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 10:57	jjh	GC-V9	1	BWC0299

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-12 | **Client Sample Name:** 0752, A-MW-5-W-130227, 2/27/2013 9:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0026**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 12:32	EAR	GC-V1	1	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-12 | **Client Sample Name:** 0752, A-MW-5-W-130227, 2/27/2013 9:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**150**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**17**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**46**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**2.1**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 12:45	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 17:43	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/04/13 23:56	CDR	TOC2	1	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-12 | **Client Sample Name:** 0752, A-MW-5-W-130227, 2/27/2013 9:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:16	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-13 | **Client Sample Name:** 0752, A-MW-6-W-130227, 2/27/2013 8:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 06:04	EAR	MS-V12	1	BWB1884

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-13 | **Client Sample Name:** 0752, A-MW-6-W-130227, 2/27/2013 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)	95.9	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 00:14	jjh	GC-V9	1	BWC0299

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-13 | **Client Sample Name:** 0752, A-MW-6-W-130227, 2/27/2013 8:50:00AM

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 15:24	EAR	GC-V1	1	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-13 | **Client Sample Name:** 0752, A-MW-6-W-130227, 2/27/2013 8:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**190**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**60**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**2.4**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 12:51	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 18:52	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/05/13 00:10	CDR	TOC2	1	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-13 | **Client Sample Name:** 0752, A-MW-6-W-130227, 2/27/2013 8:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**94**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:18	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-14 | **Client Sample Name:** 0752, A-MW-7-W-130227, 2/27/2013 10:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 06:22	EAR	MS-V12	1	BWB1935

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-14 | **Client Sample Name:** 0752, A-MW-7-W-130227, 2/27/2013 10:38:00AM

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)	96.5	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 00:35	jjh	GC-V9	1	BWC0299

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-14 | **Client Sample Name:** 0752, A-MW-7-W-130227, 2/27/2013 10:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0012**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/06/13	03/06/13 16:11	EAR	GC-V1	1	BWC0167

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-14 | **Client Sample Name:** 0752, A-MW-7-W-130227, 2/27/2013 10:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**260**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**56**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**3.4**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 12:58	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 19:04	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/05/13 00:23	CDR	TOC2	1	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-14 | **Client Sample Name:** 0752, A-MW-7-W-130227, 2/27/2013 10:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**2600**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:20	ARD	PE-OP1	1	BWC0086

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-15 | **Client Sample Name:** 0752, S-MW-1-W-130227, 2/27/2013 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**480**	**ug/L**	**12**	**EPA-8260B**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		2
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		2
Ethylbenzene	**52**	**ug/L**	**0.50**	**EPA-8260B**	ND		2
Methyl t-butyl ether	**2600**	**ug/L**	**25**	**EPA-8260B**	ND	**A01**	3
Toluene	**26**	**ug/L**	**0.50**	**EPA-8260B**	ND		2
Total Xylenes	**56**	**ug/L**	**1.0**	**EPA-8260B**	ND		2
Ethanol	ND	ug/L	250	EPA-8260B	ND		2
1,2-Dichloroethane-d4 (Surrogate)	91.7	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			2
1,2-Dichloroethane-d4 (Surrogate)	86.3	%	75 - 125 (LCL - UCL)	EPA-8260B			3
Toluene-d8 (Surrogate)	95.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	92.8	%	80 - 120 (LCL - UCL)	EPA-8260B			3
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	108	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	03/04/13	03/04/13 12:54	EAR	MS-V12	25	BWB1935
2	EPA-8260B	02/28/13	03/01/13 06:39	EAR	MS-V12	1	BWB1935
3	EPA-8260B	03/05/13	03/05/13 16:23	EAR	MS-V12	50	BWB1935

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-15 | **Client Sample Name:** 0752, S-MW-1-W-130227, 2/27/2013 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**3000**	**ug/L**	**500**	**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 11:58	jjh	GC-V9	10	BWC0299

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-15 | **Client Sample Name:** 0752, S-MW-1-W-130227, 2/27/2013 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.51**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 12:42	EAR	GC-V1	1	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-15 | **Client Sample Name:** 0752, S-MW-1-W-130227, 2/27/2013 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**230**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**14**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**6.4**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 13:05	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 19:15	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/05/13 00:37	CDR	TOC2	1	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-15 | **Client Sample Name:** 0752, S-MW-1-W-130227, 2/27/2013 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**2000**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:21	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-16 | **Client Sample Name:** 0752, S-MW-2-W-130227, 2/27/2013 10:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**1.7**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 06:57	EAR	MS-V12	1	BWB1935

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-16 | **Client Sample Name:** 0752, S-MW-2-W-130227, 2/27/2013 10:50:00AM

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)	96.6	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 01:16	jjh	GC-V9	1	BWC0299

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-16 | **Client Sample Name:** 0752, S-MW-2-W-130227, 2/27/2013 10:50:00AM

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 15:29	EAR	GC-V1	1	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-16 | **Client Sample Name:** 0752, S-MW-2-W-130227, 2/27/2013 10:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**82**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**66**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**27**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**1.1**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 13:13	RML	MET-1	1	BWC0033
2	EPA-300.0	02/28/13	02/28/13 19:27	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/05/13 00:50	CDR	TOC2	1	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-16 | **Client Sample Name:** 0752, S-MW-2-W-130227, 2/27/2013 10:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:28	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-17 | **Client Sample Name:** 0752, S-MW-3-W-130227, 2/27/2013 7:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**2.8**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 07:14	EAR	MS-V12	1	BWB1935

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-17 | **Client Sample Name:** 0752, S-MW-3-W-130227, 2/27/2013 7:40:00AM

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)	96.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 01:37	jjh	GC-V9	1	BWC0299

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-17 | **Client Sample Name:** 0752, S-MW-3-W-130227, 2/27/2013 7:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0012**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 15:33	EAR	GC-V1	1	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-17 | **Client Sample Name:** 0752, S-MW-3-W-130227, 2/27/2013 7:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**160**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**22**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**2.0**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 13:34	RML	MET-1	1	BWC0034
2	EPA-300.0	02/28/13	02/28/13 19:38	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/05/13 01:03	CDR	TOC2	1	BWC0107

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-17 | **Client Sample Name:** 0752, S-MW-3-W-130227, 2/27/2013 7:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:29	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-18 | **Client Sample Name:** 0752, S-MW-4-W-130227, 2/27/2013 7:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1.8**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**22**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 07:32	EAR	MS-V12	1	BWB1935

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-18 | **Client Sample Name:** 0752, S-MW-4-W-130227, 2/27/2013 7:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**170**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	107	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 01:57	jjh	GC-V9	1	BWC0299

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-18 | **Client Sample Name:** 0752, S-MW-4-W-130227, 2/27/2013 7:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.32**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 14:36	EAR	GC-V1	1	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-18 | **Client Sample Name:** 0752, S-MW-4-W-130227, 2/27/2013 7:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**400**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	**13**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**4.8**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 13:48	RML	MET-1	1	BWC0034
2	EPA-300.0	02/28/13	02/28/13 19:50	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/05/13 01:44	CDR	TOC2	1	BWC0108

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-18 | **Client Sample Name:** 0752, S-MW-4-W-130227, 2/27/2013 7:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**4300**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:31	ARD	PE-OP1	1	BWC0086

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-19 | **Client Sample Name:** 0752, S-MW-6-W-130227, 2/27/2013 8:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	**0.70**	**ug/L**	**0.50**	**EPA-8260B**	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	**970**	**ug/L**	**5.0**	**EPA-8260B**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	90.6	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	02/28/13	03/01/13 07:49	EAR	MS-V12	1	BWB1935
2	EPA-8260B	03/04/13	03/04/13 13:11	EAR	MS-V12	10	BWB1935

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-19 | **Client Sample Name:** 0752, S-MW-6-W-130227, 2/27/2013 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)	102	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 12:39	jjh	GC-V9	1	BWC0299

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-19 | **Client Sample Name:** 0752, S-MW-6-W-130227, 2/27/2013 8:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.0033**	**mg/L**	**0.0010**	**RSK-175M**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 14:53	EAR	GC-V1	1	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-19 | **Client Sample Name:** 0752, S-MW-6-W-130227, 2/27/2013 8:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**170**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**6.2**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**25**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**0.70**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 13:57	RML	MET-1	1	BWC0034
2	EPA-300.0	02/28/13	02/28/13 20:01	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/05/13 03:04	CDR	TOC2	1	BWC0108

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-19 | **Client Sample Name:** 0752, S-MW-6-W-130227, 2/27/2013 8:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	ND	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:33	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1304072-20 | **Client Sample Name:** 0752, S-EW-1-W-130227, 2/27/2013 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**180**	**ug/L**	**2.5**	**EPA-8260B**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		2
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		2
Ethylbenzene	**3.6**	**ug/L**	**0.50**	**EPA-8260B**	ND		2
Methyl t-butyl ether	**170**	**ug/L**	**2.5**	**EPA-8260B**	ND	**A01**	1
Toluene	**6.0**	**ug/L**	**0.50**	**EPA-8260B**	ND		2
Total Xylenes	**12**	**ug/L**	**1.0**	**EPA-8260B**	ND		2
Ethanol	ND	ug/L	250	EPA-8260B	ND		2
1,2-Dichloroethane-d4 (Surrogate)	91.8	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	91.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	03/04/13	03/04/13 13:29	EAR	MS-V12	5	BWB1935
2	EPA-8260B	02/28/13	03/01/13 08:07	EAR	MS-V12	1	BWB1935

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1304072-20 | **Client Sample Name:** 0752, S-EW-1-W-130227, 2/27/2013 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**960**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	117	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	03/06/13	03/07/13 13:00	jjh	GC-V9	1	BWC0299

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1304072-20 | **Client Sample Name:** 0752, S-EW-1-W-130227, 2/27/2013 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	**0.91**	**mg/L**	**0.0050**	**RSK-175M**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/07/13	03/07/13 15:38	EAR	GC-V1	5	BWC0320

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1304072-20 | **Client Sample Name:** 0752, S-EW-1-W-130227, 2/27/2013 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	**210**	**mg/L**	**4.1**	**EPA-310.1**	ND		1
Nitrate as NO3	**0.50**	**mg/L**	**0.44**	**EPA-300.0**	ND		2
Sulfate	**10**	**mg/L**	**1.0**	**EPA-300.0**	ND		2
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		3
Non-Volatile Organic Carbon	**3.2**	**mg/L**	**0.30**	**EPA-415.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	03/01/13	03/01/13 14:03	RML	MET-1	1	BWC0034
2	EPA-300.0	02/28/13	02/28/13 20:13	LS1	IC1	1	BWB2008
3	EPA-353.2	02/28/13	02/28/13 16:04	TMS	KONE-1	1	BWC0123
4	EPA-415.1	03/04/13	03/05/13 03:19	CDR	TOC2	1	BWC0108

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1304072-20 | **Client Sample Name:** 0752, S-EW-1-W-130227, 2/27/2013 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	**3100**	**ug/L**	**50**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/13	03/04/13 09:34	ARD	PE-OP1	1	BWC0086

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
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: BWB1884						
Benzene	BWB1884-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BWB1884-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BWB1884-BLK1	ND	ug/L	0.50		
Ethylbenzene	BWB1884-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BWB1884-BLK1	ND	ug/L	0.50		
Toluene	BWB1884-BLK1	ND	ug/L	0.50		
Total Xylenes	BWB1884-BLK1	ND	ug/L	1.0		
Ethanol	BWB1884-BLK1	ND	ug/L	250		
1,2-Dichloroethane-d4 (Surrogate)	BWB1884-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BWB1884-BLK1	106	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BWB1884-BLK1	94.4	%	80 - 120 (LCL - UCL)		
QC Batch ID: BWB1935						
Benzene	BWB1935-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BWB1935-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BWB1935-BLK1	ND	ug/L	0.50		
Ethylbenzene	BWB1935-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BWB1935-BLK1	ND	ug/L	0.50		
Toluene	BWB1935-BLK1	ND	ug/L	0.50		
Total Xylenes	BWB1935-BLK1	ND	ug/L	1.0		
Ethanol	BWB1935-BLK1	ND	ug/L	250		
1,2-Dichloroethane-d4 (Surrogate)	BWB1935-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BWB1935-BLK1	102	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BWB1935-BLK1	96.4	%	80 - 120 (LCL - UCL)		

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
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: BWB1884										
Benzene	BWB1884-BS1	LCS	28.380	25.000	ug/L	114		70 - 130		
Toluene	BWB1884-BS1	LCS	26.080	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BWB1884-BS1	LCS	9.7000	10.000	ug/L	97.0		75 - 125		
Toluene-d8 (Surrogate)	BWB1884-BS1	LCS	10.270	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BWB1884-BS1	LCS	10.310	10.000	ug/L	103		80 - 120		
QC Batch ID: BWB1935										
Benzene	BWB1935-BS1	LCS	23.850	25.000	ug/L	95.4		70 - 130		
Toluene	BWB1935-BS1	LCS	22.360	25.000	ug/L	89.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BWB1935-BS1	LCS	10.330	10.000	ug/L	103		75 - 125		
Toluene-d8 (Surrogate)	BWB1935-BS1	LCS	10.060	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BWB1935-BS1	LCS	10.810	10.000	ug/L	108		80 - 120		

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Reported: 03/08/2013 15:30
Project: 0752
Project Number: 351646
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: BWB1884	Used client sample: N										
Benzene	MS	1303847-02	ND	27.190	25.000	ug/L		109		70 - 130	
	MSD	1303847-02	ND	27.250	25.000	ug/L	0.2	109	20	70 - 130	
Toluene	MS	1303847-02	ND	24.350	25.000	ug/L		97.4		70 - 130	
	MSD	1303847-02	ND	24.180	25.000	ug/L	0.7	96.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1303847-02	ND	10.210	10.000	ug/L		102		75 - 125	
	MSD	1303847-02	ND	9.9100	10.000	ug/L	3.0	99.1		75 - 125	
Toluene-d8 (Surrogate)	MS	1303847-02	ND	10.240	10.000	ug/L		102		80 - 120	
	MSD	1303847-02	ND	9.7100	10.000	ug/L	5.3	97.1		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1303847-02	ND	10.110	10.000	ug/L		101		80 - 120	
	MSD	1303847-02	ND	10.270	10.000	ug/L	1.6	103		80 - 120	
QC Batch ID: BWB1935	Used client sample: N										
Benzene	MS	1303968-03	ND	25.010	25.000	ug/L		100		70 - 130	
	MSD	1303968-03	ND	27.580	25.000	ug/L	9.8	110	20	70 - 130	
Toluene	MS	1303968-03	ND	23.250	25.000	ug/L		93.0		70 - 130	
	MSD	1303968-03	ND	25.420	25.000	ug/L	8.9	102	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1303968-03	ND	10.300	10.000	ug/L		103		75 - 125	
	MSD	1303968-03	ND	10.620	10.000	ug/L	3.1	106		75 - 125	
Toluene-d8 (Surrogate)	MS	1303968-03	ND	9.8500	10.000	ug/L		98.5		80 - 120	
	MSD	1303968-03	ND	9.9500	10.000	ug/L	1.0	99.5		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1303968-03	ND	10.250	10.000	ug/L		102		80 - 120	
	MSD	1303968-03	ND	10.640	10.000	ug/L	3.7	106		80 - 120	

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Project Number: 351646
Project Manager: Kathy Brandt

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWC0304						
Acenaphthene	BWC0304-BLK1	ND	ug/L	2.0		
Acenaphthylene	BWC0304-BLK1	ND	ug/L	2.0		
Aldrin	BWC0304-BLK1	ND	ug/L	2.0		
Aniline	BWC0304-BLK1	ND	ug/L	5.0		
Anthracene	BWC0304-BLK1	ND	ug/L	2.0		
Benzidine	BWC0304-BLK1	ND	ug/L	20		
Benzo[a]anthracene	BWC0304-BLK1	ND	ug/L	2.0		
Benzo[b]fluoranthene	BWC0304-BLK1	ND	ug/L	2.0		
Benzo[k]fluoranthene	BWC0304-BLK1	ND	ug/L	2.0		
Benzo[a]pyrene	BWC0304-BLK1	ND	ug/L	2.0		
Benzo[g,h,i]perylene	BWC0304-BLK1	ND	ug/L	2.0		
Benzoic acid	BWC0304-BLK1	ND	ug/L	10		
Benzyl alcohol	BWC0304-BLK1	ND	ug/L	2.0		
Benzyl butyl phthalate	BWC0304-BLK1	ND	ug/L	2.0		
alpha-BHC	BWC0304-BLK1	ND	ug/L	2.0		
beta-BHC	BWC0304-BLK1	ND	ug/L	2.0		
delta-BHC	BWC0304-BLK1	ND	ug/L	2.0		
gamma-BHC (Lindane)	BWC0304-BLK1	ND	ug/L	2.0		
bis(2-Chloroethoxy)methane	BWC0304-BLK1	ND	ug/L	2.0		
bis(2-Chloroethyl) ether	BWC0304-BLK1	ND	ug/L	2.0		
bis(2-Chloroisopropyl)ether	BWC0304-BLK1	ND	ug/L	2.0		
bis(2-Ethylhexyl)phthalate	BWC0304-BLK1	ND	ug/L	5.0		
4-Bromophenyl phenyl ether	BWC0304-BLK1	ND	ug/L	2.0		
4-Chloroaniline	BWC0304-BLK1	ND	ug/L	2.0		
2-Chloronaphthalene	BWC0304-BLK1	ND	ug/L	2.0		
4-Chlorophenyl phenyl ether	BWC0304-BLK1	ND	ug/L	2.0		
Chrysene	BWC0304-BLK1	ND	ug/L	2.0		
4,4'-DDD	BWC0304-BLK1	ND	ug/L	2.0		
4,4'-DDE	BWC0304-BLK1	ND	ug/L	3.0		
4,4'-DDT	BWC0304-BLK1	ND	ug/L	2.0		
Dibenzo[a,h]anthracene	BWC0304-BLK1	ND	ug/L	3.0		
Dibenzofuran	BWC0304-BLK1	ND	ug/L	2.0		
1,2-Dichlorobenzene	BWC0304-BLK1	ND	ug/L	2.0		
1,3-Dichlorobenzene	BWC0304-BLK1	ND	ug/L	2.0		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWC0304						
1,4-Dichlorobenzene	BWC0304-BLK1	ND	ug/L	2.0		
3,3-Dichlorobenzidine	BWC0304-BLK1	ND	ug/L	10		
Dieldrin	BWC0304-BLK1	ND	ug/L	3.0		
Diethyl phthalate	BWC0304-BLK1	ND	ug/L	2.0		
Dimethyl phthalate	BWC0304-BLK1	ND	ug/L	2.0		
Di-n-butyl phthalate	BWC0304-BLK1	ND	ug/L	2.0		
2,4-Dinitrotoluene	BWC0304-BLK1	ND	ug/L	2.0		
2,6-Dinitrotoluene	BWC0304-BLK1	ND	ug/L	2.0		
Di-n-octyl phthalate	BWC0304-BLK1	ND	ug/L	2.0		
1,2-Diphenylhydrazine	BWC0304-BLK1	ND	ug/L	2.0		
Endosulfan I	BWC0304-BLK1	ND	ug/L	10		
Endosulfan II	BWC0304-BLK1	ND	ug/L	10		
Endosulfan sulfate	BWC0304-BLK1	ND	ug/L	3.0		
Endrin	BWC0304-BLK1	ND	ug/L	2.0		
Endrin aldehyde	BWC0304-BLK1	ND	ug/L	10		
Fluoranthene	BWC0304-BLK1	ND	ug/L	2.0		
Fluorene	BWC0304-BLK1	ND	ug/L	2.0		
Heptachlor	BWC0304-BLK1	ND	ug/L	2.0		
Heptachlor epoxide	BWC0304-BLK1	ND	ug/L	2.0		
Hexachlorobenzene	BWC0304-BLK1	ND	ug/L	2.0		
Hexachlorobutadiene	BWC0304-BLK1	ND	ug/L	2.0		
Hexachlorocyclopentadiene	BWC0304-BLK1	ND	ug/L	2.0		
Hexachloroethane	BWC0304-BLK1	ND	ug/L	2.0		
Indeno[1,2,3-cd]pyrene	BWC0304-BLK1	ND	ug/L	2.0		
Isophorone	BWC0304-BLK1	ND	ug/L	2.0		
2-Methylnaphthalene	BWC0304-BLK1	ND	ug/L	2.0		
Naphthalene	BWC0304-BLK1	ND	ug/L	2.0		
2-Naphthylamine	BWC0304-BLK1	ND	ug/L	20		
2-Nitroaniline	BWC0304-BLK1	ND	ug/L	2.0		
3-Nitroaniline	BWC0304-BLK1	ND	ug/L	2.0		
4-Nitroaniline	BWC0304-BLK1	ND	ug/L	5.0		
Nitrobenzene	BWC0304-BLK1	ND	ug/L	2.0		
N-Nitrosodimethylamine	BWC0304-BLK1	ND	ug/L	2.0		
N-Nitrosodi-N-propylamine	BWC0304-BLK1	ND	ug/L	2.0		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWC0304						
N-Nitrosodiphenylamine	BWC0304-BLK1	ND	ug/L	2.0		
Phenanthrene	BWC0304-BLK1	ND	ug/L	2.0		
Pyrene	BWC0304-BLK1	ND	ug/L	2.0		
1,2,4-Trichlorobenzene	BWC0304-BLK1	ND	ug/L	2.0		
4-Chloro-3-methylphenol	BWC0304-BLK1	ND	ug/L	5.0		
2-Chlorophenol	BWC0304-BLK1	ND	ug/L	2.0		
2,4-Dichlorophenol	BWC0304-BLK1	ND	ug/L	2.0		
2,4-Dimethylphenol	BWC0304-BLK1	ND	ug/L	2.0		
4,6-Dinitro-2-methylphenol	BWC0304-BLK1	ND	ug/L	10		
2,4-Dinitrophenol	BWC0304-BLK1	ND	ug/L	10		
2-Methylphenol	BWC0304-BLK1	ND	ug/L	2.0		
3- & 4-Methylphenol	BWC0304-BLK1	ND	ug/L	2.0		
2-Nitrophenol	BWC0304-BLK1	ND	ug/L	2.0		
4-Nitrophenol	BWC0304-BLK1	ND	ug/L	2.0		
Pentachlorophenol	BWC0304-BLK1	ND	ug/L	10		
Phenol	BWC0304-BLK1	ND	ug/L	2.0		
2,4,5-Trichlorophenol	BWC0304-BLK1	ND	ug/L	5.0		
2,4,6-Trichlorophenol	BWC0304-BLK1	ND	ug/L	5.0		
2-Fluorophenol (Surrogate)	BWC0304-BLK1	46.8	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BWC0304-BLK1	34.0	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BWC0304-BLK1	83.4	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BWC0304-BLK1	87.7	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BWC0304-BLK1	102	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BWC0304-BLK1	71.6	%	40 - 150 (LCL - UCL)		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

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: BWC0304										
Acenaphthene	BWC0304-BS1	LCS	40.700	50.000	ug/L	81.4		50 - 120		
1,4-Dichlorobenzene	BWC0304-BS1	LCS	35.960	50.000	ug/L	71.9		50 - 120		
2,4-Dinitrotoluene	BWC0304-BS1	LCS	42.070	50.000	ug/L	84.1		50 - 120		
Hexachlorobenzene	BWC0304-BS1	LCS	51.030	50.000	ug/L	102		60 - 120		
Hexachlorobutadiene	BWC0304-BS1	LCS	31.480	50.000	ug/L	63.0		40 - 110		
Hexachloroethane	BWC0304-BS1	LCS	34.810	50.000	ug/L	69.6		40 - 120		
Nitrobenzene	BWC0304-BS1	LCS	40.030	50.000	ug/L	80.1		50 - 120		
N-Nitrosodi-N-propylamine	BWC0304-BS1	LCS	33.020	50.000	ug/L	66.0		50 - 120		
Pyrene	BWC0304-BS1	LCS	31.370	50.000	ug/L	62.7		40 - 140		
1,2,4-Trichlorobenzene	BWC0304-BS1	LCS	42.640	50.000	ug/L	85.3		45 - 120		
4-Chloro-3-methylphenol	BWC0304-BS1	LCS	39.260	50.000	ug/L	78.5		50 - 120		
2-Chlorophenol	BWC0304-BS1	LCS	32.800	50.000	ug/L	65.6		50 - 120		
2-Methylphenol	BWC0304-BS1	LCS	30.790	50.000	ug/L	61.6		40 - 110		
3- & 4-Methylphenol	BWC0304-BS1	LCS	56.930	100.00	ug/L	56.9		40 - 110		
4-Nitrophenol	BWC0304-BS1	LCS	4.5400	50.000	ug/L	9.1		10 - 110		L01
Pentachlorophenol	BWC0304-BS1	LCS	41.120	50.000	ug/L	82.2		30 - 120		
Phenol	BWC0304-BS1	LCS	16.660	50.000	ug/L	33.3		20 - 110		
2,4,6-Trichlorophenol	BWC0304-BS1	LCS	43.550	50.000	ug/L	87.1		54 - 120		
2-Fluorophenol (Surrogate)	BWC0304-BS1	LCS	38.360	80.000	ug/L	48.0		30 - 120		
Phenol-d5 (Surrogate)	BWC0304-BS1	LCS	28.000	80.000	ug/L	35.0		12 - 110		
Nitrobenzene-d5 (Surrogate)	BWC0304-BS1	LCS	68.240	80.000	ug/L	85.3		60 - 130		
2-Fluorobiphenyl (Surrogate)	BWC0304-BS1	LCS	71.180	80.000	ug/L	89.0		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BWC0304-BS1	LCS	84.500	80.000	ug/L	106		40 - 150		
p-Terphenyl-d14 (Surrogate)	BWC0304-BS1	LCS	25.850	40.000	ug/L	64.6		40 - 150		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

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: BWC0304	Used client sample: N										
Acenaphthene	MS	1302378-73	ND	39.081	50.000	ug/L		78.2		50 - 120	
	MSD	1302378-73	ND	39.420	50.000	ug/L	0.9	78.8	30	50 - 120	
1,4-Dichlorobenzene	MS	1302378-73	ND	36.055	50.000	ug/L		72.1		47 - 120	
	MSD	1302378-73	ND	34.490	50.000	ug/L	4.4	69.0	30	47 - 120	
2,4-Dinitrotoluene	MS	1302378-73	ND	41.118	50.000	ug/L		82.2		50 - 130	
	MSD	1302378-73	ND	39.610	50.000	ug/L	3.7	79.2	30	50 - 130	
Hexachlorobenzene	MS	1302378-73	ND	47.317	50.000	ug/L		94.6		62 - 120	
	MSD	1302378-73	ND	47.290	50.000	ug/L	0.1	94.6	30	62 - 120	
Hexachlorobutadiene	MS	1302378-73	ND	31.457	50.000	ug/L		62.9		40 - 110	
	MSD	1302378-73	ND	32.330	50.000	ug/L	2.7	64.7	30	40 - 110	
Hexachloroethane	MS	1302378-73	ND	33.465	50.000	ug/L		66.9		40 - 120	
	MSD	1302378-73	ND	32.390	50.000	ug/L	3.3	64.8	30	40 - 120	
Nitrobenzene	MS	1302378-73	ND	38.722	50.000	ug/L		77.4		50 - 120	
	MSD	1302378-73	ND	39.060	50.000	ug/L	0.9	78.1	30	50 - 120	
N-Nitrosodi-N-propylamine	MS	1302378-73	ND	30.516	50.000	ug/L		61.0		50 - 120	
	MSD	1302378-73	ND	30.320	50.000	ug/L	0.6	60.6	30	50 - 120	
Pyrene	MS	1302378-73	ND	31.428	50.000	ug/L		62.9		40 - 140	
	MSD	1302378-73	ND	27.890	50.000	ug/L	11.9	55.8	30	40 - 140	
1,2,4-Trichlorobenzene	MS	1302378-73	ND	41.526	50.000	ug/L		83.1		43 - 120	
	MSD	1302378-73	ND	42.350	50.000	ug/L	2.0	84.7	30	43 - 120	
4-Chloro-3-methylphenol	MS	1302378-73	ND	38.034	50.000	ug/L		76.1		50 - 120	
	MSD	1302378-73	ND	39.720	50.000	ug/L	4.3	79.4	30	50 - 120	
2-Chlorophenol	MS	1302378-73	ND	32.427	50.000	ug/L		64.9		50 - 120	
	MSD	1302378-73	ND	31.390	50.000	ug/L	3.3	62.8	30	50 - 120	
2-Methylphenol	MS	1302378-73	ND	30.080	50.000	ug/L		60.2		40 - 110	
	MSD	1302378-73	ND	29.150	50.000	ug/L	3.1	58.3	30	40 - 110	
3- & 4-Methylphenol	MS	1302378-73	ND	54.485	100.00	ug/L		54.5		40 - 110	
	MSD	1302378-73	ND	54.300	100.00	ug/L	0.3	54.3	30	40 - 110	
4-Nitrophenol	MS	1302378-73	ND	4.7724	50.000	ug/L		9.5		10 - 110	Q03
	MSD	1302378-73	ND	4.0900	50.000	ug/L	15.4	8.2	30	10 - 110	Q03
Pentachlorophenol	MS	1302378-73	ND	41.080	50.000	ug/L		82.2		30 - 120	
	MSD	1302378-73	ND	40.280	50.000	ug/L	2.0	80.6	30	30 - 120	
Phenol	MS	1302378-73	ND	16.277	50.000	ug/L		32.6		20 - 110	
	MSD	1302378-73	ND	16.330	50.000	ug/L	0.3	32.7	30	20 - 110	
2,4,6-Trichlorophenol	MS	1302378-73	ND	41.138	50.000	ug/L		82.3		50 - 120	
	MSD	1302378-73	ND	42.620	50.000	ug/L	3.5	85.2	30	50 - 120	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

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: BWC0304	Used client sample: N										
2-Fluorophenol (Surrogate)	MS	1302378-73	ND	37.374	80.000	ug/L		46.7		30 - 120	
	MSD	1302378-73	ND	36.700	80.000	ug/L	1.8	45.9		30 - 120	
Phenol-d5 (Surrogate)	MS	1302378-73	ND	28.072	80.000	ug/L		35.1		12 - 110	
	MSD	1302378-73	ND	27.470	80.000	ug/L	2.2	34.3		12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1302378-73	ND	65.300	80.000	ug/L		81.6		60 - 130	
	MSD	1302378-73	ND	62.810	80.000	ug/L	3.9	78.5		60 - 130	
2-Fluorobiphenyl (Surrogate)	MS	1302378-73	ND	66.833	80.000	ug/L		83.5		55 - 125	
	MSD	1302378-73	ND	69.560	80.000	ug/L	4.0	87.0		55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	1302378-73	ND	78.735	80.000	ug/L		98.4		40 - 150	
	MSD	1302378-73	ND	79.300	80.000	ug/L	0.7	99.1		40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	1302378-73	ND	26.520	40.000	ug/L		66.3		40 - 150	
	MSD	1302378-73	ND	23.940	40.000	ug/L	10.2	59.8		40 - 150	

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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: BWC0214						
Gasoline Range Organics (C6 - C12)	BWC0214-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BWC0214-BLK1	96.8	%	70 - 130 (LCL - UCL)		
QC Batch ID: BWC0299						
Gasoline Range Organics (C6 - C12)	BWC0299-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BWC0299-BLK1	105	%	70 - 130 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BWC0214										
Gasoline Range Organics (C6 - C12)	BWC0214-BS1	LCS	1029.5	1000.0	ug/L	103		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BWC0214-BS1	LCS	42.093	40.000	ug/L	105		70 - 130		
QC Batch ID: BWC0299										
Gasoline Range Organics (C6 - C12)	BWC0299-BS1	LCS	895.88	1000.0	ug/L	89.6		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BWC0299-BS1	LCS	44.773	40.000	ug/L	112		70 - 130		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BWC0214	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1302378-66	ND	1002.9	1000.0	ug/L		100		70 - 130	
	MSD	1302378-66	ND	992.48	1000.0	ug/L	1.0	99.2	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1302378-66	ND	40.963	40.000	ug/L		102		70 - 130	
	MSD	1302378-66	ND	41.338	40.000	ug/L	0.9	103		70 - 130	
QC Batch ID: BWC0299	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1302378-67	ND	953.30	1000.0	ug/L		95.3		70 - 130	
	MSD	1302378-67	ND	1041.6	1000.0	ug/L	8.9	104	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1302378-67	ND	44.098	40.000	ug/L		110		70 - 130	
	MSD	1302378-67	ND	38.979	40.000	ug/L	12.3	97.4		70 - 130	

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Gas Testing in Water

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWC0167						
Methane	BWC0167-BLK1	ND	mg/L	0.0010		
QC Batch ID: BWC0320						
Methane	BWC0320-BLK1	ND	mg/L	0.0010		

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Project Manager: Kathy Brandt

Gas Testing in Water

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BWC0167										
Methane	BWC0167-BS1	LCS	0.010234	0.010843	mg/L	94.4		80 - 120		
	BWC0167-BSD1	LCSD	0.010216	0.010843	mg/L	94.2	0.2	80 - 120	20	
QC Batch ID: BWC0320										
Methane	BWC0320-BS1	LCS	0.0096391	0.010843	mg/L	88.9		80 - 120		
	BWC0320-BSD1	LCSD	0.0097088	0.010843	mg/L	89.5	0.7	80 - 120	20	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWB2007						
Nitrate as NO3	BWB2007-BLK1	ND	mg/L	0.44		
Sulfate	BWB2007-BLK1	ND	mg/L	1.0		
QC Batch ID: BWB2008						
Nitrate as NO3	BWB2008-BLK1	ND	mg/L	0.44		
Sulfate	BWB2008-BLK1	ND	mg/L	1.0		
QC Batch ID: BWC0032						
Total Alkalinity as CaCO3	BWC0032-BLK1	ND	mg/L	4.1		
QC Batch ID: BWC0033						
Total Alkalinity as CaCO3	BWC0033-BLK1	ND	mg/L	4.1		
QC Batch ID: BWC0034						
Total Alkalinity as CaCO3	BWC0034-BLK1	ND	mg/L	4.1		
QC Batch ID: BWC0106						
Non-Volatile Organic Carbon	BWC0106-BLK1	ND	mg/L	0.30		
QC Batch ID: BWC0107						
Non-Volatile Organic Carbon	BWC0107-BLK1	ND	mg/L	0.30		
QC Batch ID: BWC0108						
Non-Volatile Organic Carbon	BWC0108-BLK1	ND	mg/L	0.30		
QC Batch ID: BWC0122						
Nitrite as NO2	BWC0122-BLK1	ND	mg/L	0.17		
QC Batch ID: BWC0123						
Nitrite as NO2	BWC0123-BLK1	ND	mg/L	0.17		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BWB2007										
Nitrate as NO3	BWB2007-BS1	LCS	22.400	22.134	mg/L	101		90 - 110		
Sulfate	BWB2007-BS1	LCS	101.22	100.00	mg/L	101		90 - 110		
QC Batch ID: BWB2008										
Nitrate as NO3	BWB2008-BS1	LCS	21.864	22.134	mg/L	98.8		90 - 110		
Sulfate	BWB2008-BS1	LCS	100.42	100.00	mg/L	100		90 - 110		
QC Batch ID: BWC0032										
Total Alkalinity as CaCO3	BWC0032-BS3	LCS	100.71	100.00	mg/L	101		90 - 110		
QC Batch ID: BWC0033										
Total Alkalinity as CaCO3	BWC0033-BS3	LCS	98.280	100.00	mg/L	98.3		90 - 110		
QC Batch ID: BWC0034										
Total Alkalinity as CaCO3	BWC0034-BS3	LCS	99.650	100.00	mg/L	99.6		90 - 110		
QC Batch ID: BWC0106										
Non-Volatile Organic Carbon	BWC0106-BS1	LCS	5.1420	5.0000	mg/L	103		85 - 115		
QC Batch ID: BWC0107										
Non-Volatile Organic Carbon	BWC0107-BS1	LCS	5.1700	5.0000	mg/L	103		85 - 115		
QC Batch ID: BWC0108										
Non-Volatile Organic Carbon	BWC0108-BS1	LCS	5.1570	5.0000	mg/L	103		85 - 115		
QC Batch ID: BWC0122										
Nitrite as NO2	BWC0122-BS1	LCS	1.6767	1.6425	mg/L	102		90 - 110		
QC Batch ID: BWC0123										
Nitrite as NO2	BWC0123-BS1	LCS	1.6265	1.6425	mg/L	99.0		90 - 110		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BWB2007	Used client sample: Y - Description: MW-1-W-130227, 02/27/2013 13:15										
Nitrate as NO3	DUP	1304072-02	1.2085	1.1775		mg/L	2.6		10		
	MS	1304072-02	1.2085	23.543	22.358	mg/L		99.9		80 - 120	
	MSD	1304072-02	1.2085	23.198	22.358	mg/L	1.5	98.4	10	80 - 120	
Sulfate	DUP	1304072-02	8.9790	9.0380		mg/L	0.7		10		
	MS	1304072-02	8.9790	112.99	101.01	mg/L		103		80 - 120	
	MSD	1304072-02	8.9790	112.95	101.01	mg/L	0.0	103	10	80 - 120	
QC Batch ID: BWB2008	Used client sample: Y - Description: A-MW-5-W-130227, 02/27/2013 09:37										
Nitrate as NO3	DUP	1304072-12	16.716	16.764		mg/L	0.3		10		
	MS	1304072-12	16.716	40.186	22.358	mg/L		105		80 - 120	
	MSD	1304072-12	16.716	40.132	22.358	mg/L	0.1	105	10	80 - 120	
Sulfate	DUP	1304072-12	45.640	45.640		mg/L	0		10		
	MS	1304072-12	45.640	155.81	101.01	mg/L		109		80 - 120	
	MSD	1304072-12	45.640	155.52	101.01	mg/L	0.2	109	10	80 - 120	
QC Batch ID: BWC0032	Used client sample: N										
Total Alkalinity as CaCO3	DUP	1304160-01	198.08	197.77		mg/L	0.2		10		
QC Batch ID: BWC0033	Used client sample: Y - Description: MW-6-W-130227, 02/27/2013 13:40										
Total Alkalinity as CaCO3	DUP	1304072-07	98.890	98.730		mg/L	0.2		10		
QC Batch ID: BWC0034	Used client sample: Y - Description: S-MW-3-W-130227, 02/27/2013 07:40										
Total Alkalinity as CaCO3	DUP	1304072-17	164.91	164.91		mg/L	0		10		
QC Batch ID: BWC0106	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1303971-01	1.7680	1.7390		mg/L	1.7		10		
	MS	1303971-01	1.7680	6.7859	5.0251	mg/L		99.9		80 - 120	
	MSD	1303971-01	1.7680	6.9427	5.0251	mg/L	2.3	103	10	80 - 120	
QC Batch ID: BWC0107	Used client sample: Y - Description: MW-7-W-130227, 02/27/2013 07:15										
Non-Volatile Organic Carbon	DUP	1304072-08	1.1320	1.1390		mg/L	0.6		10		
	MS	1304072-08	1.1320	6.3779	5.0251	mg/L		104		80 - 120	
	MSD	1304072-08	1.1320	6.3829	5.0251	mg/L	0.1	104	10	80 - 120	
QC Batch ID: BWC0108	Used client sample: Y - Description: S-MW-4-W-130227, 02/27/2013 07:00										
Non-Volatile Organic Carbon	DUP	1304072-18	4.8150	4.8700		mg/L	1.1		10		
	MS	1304072-18	4.8150	9.9035	5.0251	mg/L		101		80 - 120	
	MSD	1304072-18	4.8150	9.8905	5.0251	mg/L	0.1	101	10	80 - 120	
QC Batch ID: BWC0122	Used client sample: Y - Description: MW-1-W-130227, 02/27/2013 13:15										
Nitrite as NO2	DUP	1304072-02	ND	ND		mg/L			10		
	MS	1304072-02	ND	1.7151	1.7289	mg/L		99.2		90 - 110	
	MSD	1304072-02	ND	1.7475	1.7289	mg/L	1.9	101	10	90 - 110	
QC Batch ID: BWC0123	Used client sample: Y - Description: A-MW-3-W-130227, 02/27/2013 12:25										

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BWC0123	Used client sample: Y - Description: A-MW-3-W-130227, 02/27/2013 12:25										
Nitrite as NO2	DUP	1304072-11	ND	ND		mg/L			10		
	MS	1304072-11	ND	1.7429	1.7289	mg/L		101		90 - 110	
	MSD	1304072-11	ND	1.7748	1.7289	mg/L	1.8	103	10	90 - 110	

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Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BWC0086						
Dissolved Cadmium	BWC0086-BLK1	ND	ug/L	10		
Dissolved Chromium	BWC0086-BLK1	ND	ug/L	10		
Dissolved Iron	BWC0086-BLK1	ND	ug/L	50		
Dissolved Lead	BWC0086-BLK1	ND	ug/L	50		
Dissolved Nickel	BWC0086-BLK1	ND	ug/L	10		
Dissolved Zinc	BWC0086-BLK1	ND	ug/L	10		

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Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BWC0086										
Dissolved Cadmium	BWC0086-BS1	LCS	187.83	200.00	ug/L	93.9		85 - 115		
Dissolved Chromium	BWC0086-BS1	LCS	197.11	200.00	ug/L	98.6		85 - 115		
Dissolved Iron	BWC0086-BS1	LCS	1027.1	1000.0	ug/L	103		85 - 115		
Dissolved Lead	BWC0086-BS1	LCS	416.85	400.00	ug/L	104		85 - 115		
Dissolved Nickel	BWC0086-BS1	LCS	381.42	400.00	ug/L	95.4		85 - 115		
Dissolved Zinc	BWC0086-BS1	LCS	515.10	500.00	ug/L	103		85 - 115		

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Metals Analysis

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: BWC0086	Used client sample: Y - Description: MW-1-W-130227, 02/27/2013 13:15										
Dissolved Cadmium	DUP	1304072-02	ND	ND		ug/L			20		
	MS	1304072-02	ND	201.85	204.08	ug/L		98.9		75 - 125	
	MSD	1304072-02	ND	193.24	204.08	ug/L	4.4	94.7	20	75 - 125	
Dissolved Chromium	DUP	1304072-02	ND	ND		ug/L			20		
	MS	1304072-02	ND	205.06	204.08	ug/L		100		75 - 125	
	MSD	1304072-02	ND	196.69	204.08	ug/L	4.2	96.4	20	75 - 125	
Dissolved Iron	DUP	1304072-02	45.254	ND		ug/L			20		A02
	MS	1304072-02	45.254	1065.4	1020.4	ug/L		100		75 - 125	
	MSD	1304072-02	45.254	1043.1	1020.4	ug/L	2.1	97.8	20	75 - 125	
Dissolved Lead	DUP	1304072-02	ND	ND		ug/L			20		
	MS	1304072-02	ND	435.90	408.16	ug/L		107		75 - 125	
	MSD	1304072-02	ND	423.07	408.16	ug/L	3.0	104	20	75 - 125	
Dissolved Nickel	DUP	1304072-02	3.5885	ND		ug/L			20		
	MS	1304072-02	3.5885	399.23	408.16	ug/L		96.9		75 - 125	
	MSD	1304072-02	3.5885	380.04	408.16	ug/L	4.9	92.2	20	75 - 125	
Dissolved Zinc	DUP	1304072-02	ND	ND		ug/L			20		
	MS	1304072-02	ND	551.40	510.20	ug/L		108		75 - 125	
	MSD	1304072-02	ND	530.07	510.20	ug/L	3.9	104	20	75 - 125	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
A10	PQL's and MDL's were raised due to matrix interference.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.