



October 17, 2013

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By Alameda County Environmental Health at 2:44 pm, Oct 17, 2013

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

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

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

RE: Third 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) 790-6463.

Sincerely,

A handwritten signature in blue ink that reads "Tim Bishop".

Timothy Bishop
Union Oil of California – Project Manager

Attachment
Third 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

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

ENVIRONMENT

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

Dear Mr. Wickham:

Date:
October 17, 2013

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:

Contact:
Katherine Brandt

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

Phone:
510.596.9675

Email:
Katherine.Brandt@
arcadis-us.com

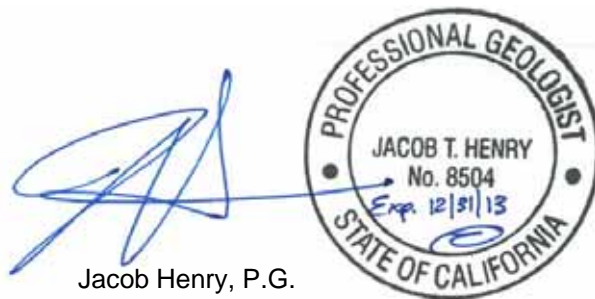
If you have any questions or comments regarding the contents of this document, please contact Mr. Tim Bishop of Chevron at 925.790.6463 or by e-mail at TimBishop@Chevron.com. Alternatively, you may contact Katherine Brandt of ARCADIS at 510.596.9675 or by e-mail at Katherine.Brandt@arcadis-us.com.

Our ref:
B0047339.2013

Sincerely,

ARCADIS

Katherine Brandt
Certified Project Manager



Jacob Henry, P.G.
Professional Geologist

Copies:

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

Mr. Tim Bishop, 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
THIRD QUARTER 2013
October 17, 2013**

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

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 (Third Quarter – 2013) :

1. Gettler-Ryan, Inc. (G-R) conducted groundwater monitoring and sampling on August 15, 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 nine (9) groundwater monitoring wells associated with 726 Harrison Street (YEE) were gauged and sampled during this monitoring event. Recently installed MP-1, MPE-1, and AS-1, associated with the YEE property, were gauged, and groundwater samples were collected from MP-1 and MPE-1 however, no sample was collected from AS-1 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**.

On August 21, 2013, Muir Consulting, Inc. (Muir) completed a survey of all the well locations for 726 Harrison Street in Oakland, California. The updated survey elevations are presented in Tables 1 and 2. The updated 800 Harrison Street elevations are based on the online conversion calculator presented on the National Geodetic Survey (NGS) website: http://www.ngs.noaa.gov/cgi-bin/VERTCON/vert_con.prl. The elevations for 706 Harrison Street were attempted to be converted but the calculation was unable to be completed correctly due to survey discrepancies. Therefore the elevations for 706 Harrison remained the same for this quarter's groundwater contouring and are presented on the groundwater contour map separately.

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

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

Current Phase of Project:	<u>Groundwater Monitoring/ Pilot Testing</u>
Site Use:	<u>Active 76 branded service station/parking lots (YEE/GIN)</u>
Frequency of Sampling:	<u>Groundwater – Semi-Annually</u>
Frequency of Monitoring:	<u>Groundwater – Semi-Annually</u>
Are Separate-Phase Hydrocarbons (SPH) Present On-Site:	<u>No</u>
Cumulative SPH Recovered to Date:	<u>None</u>
SPH Recovered This Quarter:	<u>None</u>

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
THIRD QUARTER 2013
October 17, 2013**

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

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: Under Evaluation

Permits for Discharge (No.): None

Approximate Depth to Groundwater (at Unocal 0752): 18.35 (MW-6) – 20.20 (MW-1) feet below top of casing
Measured Estimated

Approximate Groundwater Elevation (at Unocal 0752): 16.22 (MW-7) – 17.45 (MW-2) feet relative to mean sea level
Measured Estimated

Groundwater Gradient (at Unocal 0752): 0.008 ft/ft (Magnitude) Southwest (Direction)

DISCUSSION:

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

706 Harrison Street:

The maximum dissolved concentration of TPPH (5,800 micrograms per liter [$\mu\text{g/L}$]) was detected in the samples collected from MW-1. The maximum dissolved concentrations of benzene (1,200 $\mu\text{g/L}$), toluene (5,600 $\mu\text{g/L}$), ethylbenzene (820 $\mu\text{g/L}$), total xylenes (4,400 $\mu\text{g/L}$), and MTBE (1,700 $\mu\text{g/L}$) were detected in the samples collected from MW-2. EDB, EDC, and ethanol were not detected above the laboratory reporting limits for all wells sampled.

726 Harrison Street:

The maximum dissolved concentrations of TPPH (8,000 $\mu\text{g/L}$), benzene (1,900 $\mu\text{g/L}$), toluene (590 $\mu\text{g/L}$), ethylbenzene (390 $\mu\text{g/L}$), total xylenes (1,100 $\mu\text{g/L}$), and MTBE (20,000 $\mu\text{g/L}$) were detected in the samples collected from MW-5. The maximum dissolved concentration of EDC (0.79 $\mu\text{g/L}$) 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 (410 $\mu\text{g/L}$) and MTBE (340 $\mu\text{g/L}$) were detected in the samples collected from MW-3. The maximum dissolved concentrations of benzene (24 $\mu\text{g/L}$), toluene (6.1 $\mu\text{g/L}$), ethylbenzene (2.0 $\mu\text{g/L}$), and total xylenes (9.2 $\mu\text{g/L}$) 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 for 726 and 800 Harrison Street vary by approximately three feet, creating a relatively gentle hydraulic gradient of 0.008 foot per foot (ft/ft) in the southwest direction. Groundwater elevations at the site for 706 Harrison Street vary by approximately 2 feet, creating a relatively gentle hydraulic gradient of 0.013ft/ft 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
THIRD QUARTER 2013
October 17, 2013**

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

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

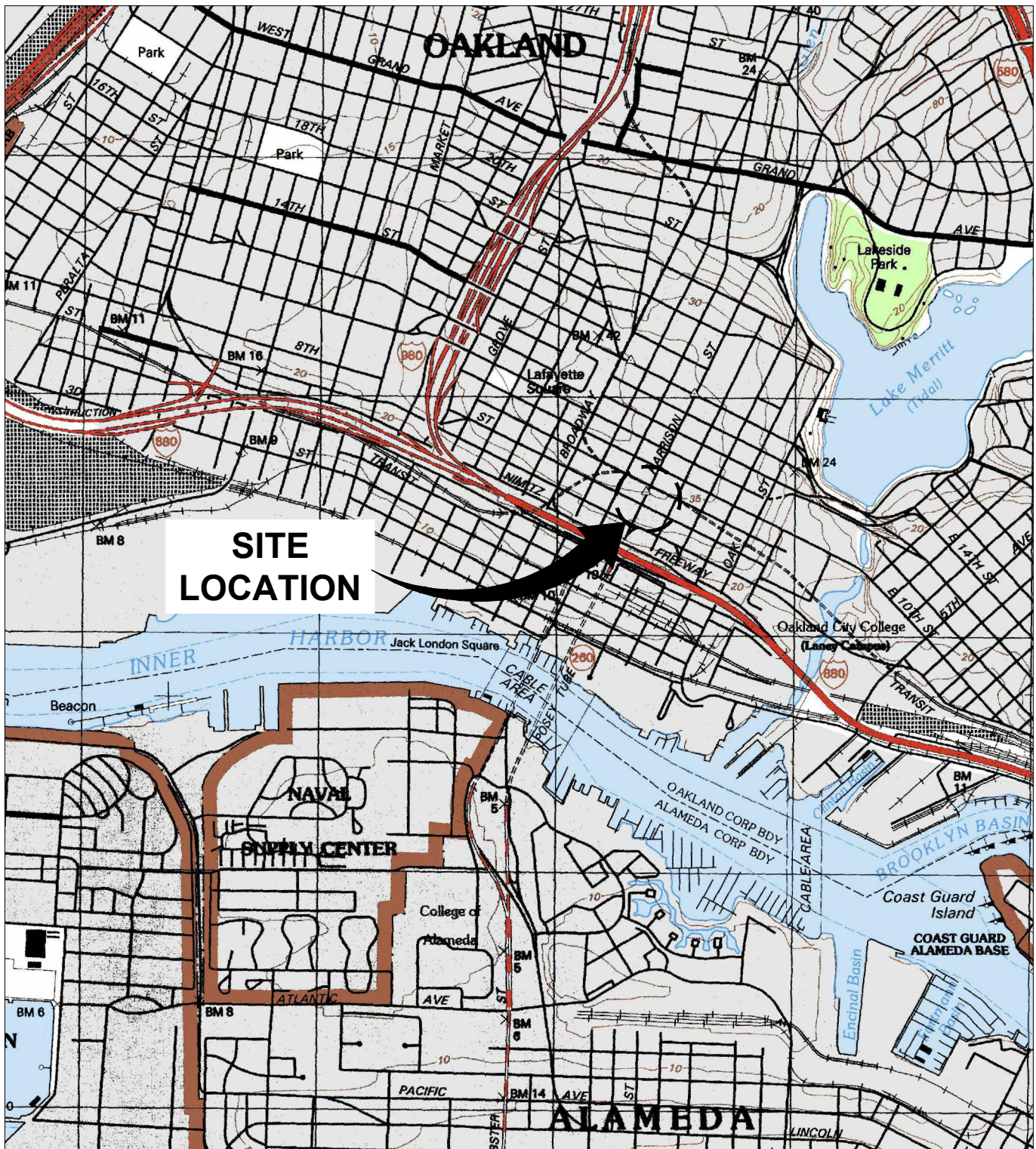
- Table 1: Current Groundwater Gauging and Analytical Results
- Table 1a: Additional Groundwater Analytical Results – MNA Parameters
- Table 1b: Additional Groundwater Analytical Results – VOCs
- Table 1c: Additional Groundwater Analytical Results – Metals
- Table 2: Historical Groundwater Gauging and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

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



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



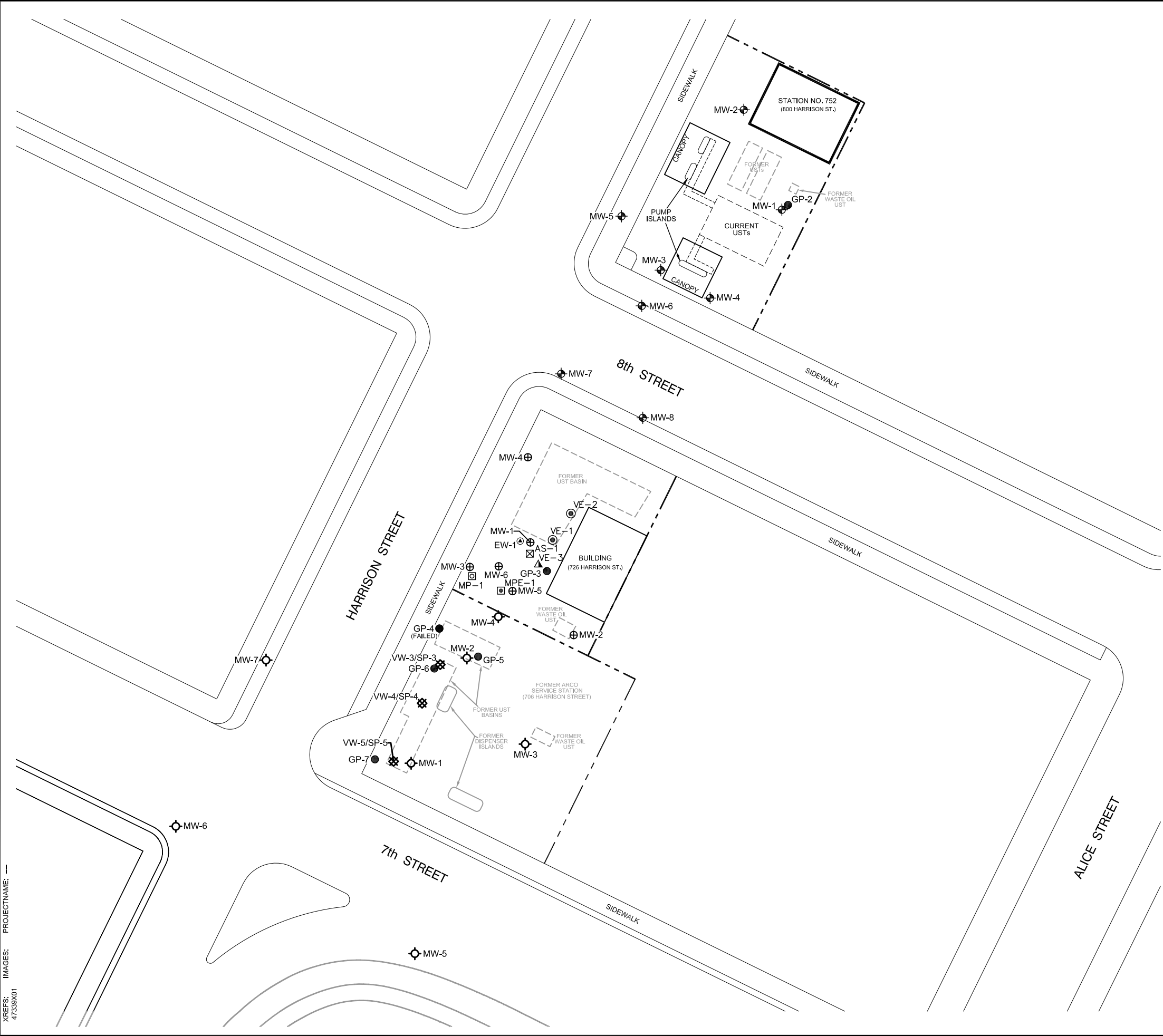
UNION OIL OF CALIFORNIA
 STATION NO. 0752/YEE/GIN COMMINGLED
 706/726/800 HARRIS STREET
 OAKLAND, CALIFORNIA

SITE LOCATION MAP



FIGURE
1

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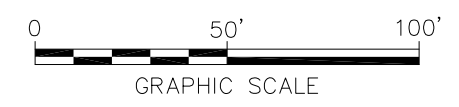


LEGEND

- 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)
- GP-2 ● GEOPROBE™ (JUNE 2011)
- MPE-1 ⊕ MULTI-PHASE EXTRACTION PILOT TEST WELL (PZ-1 IS LOCATED IN THE SAME BOREHOLE)
- MP-1 ⊕ PILOT TEST MONITORING POINT
- VE-1 ⊕ VAPOR EXTRACTION WELL
- VE-3 ▲ PILOT TEST VAPOR EXTRACTION WELL

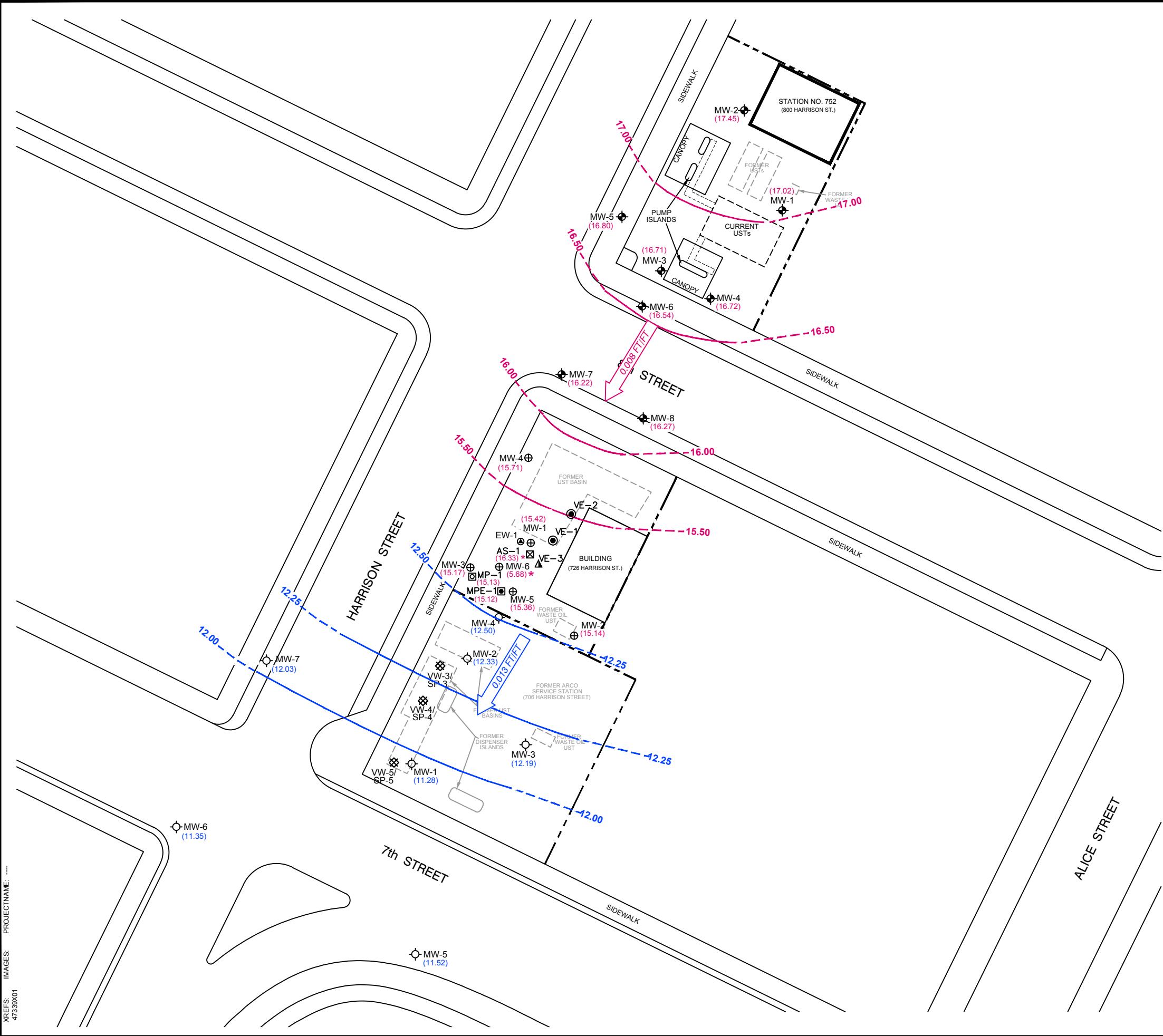
NOTE:

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.



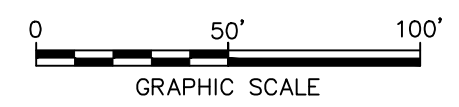
UNION OIL OF CALIFORNIA STATION NO. 0752/YEE/GIN COMMINGLED 706/726/800 HARRISON STREET OAKLAND, CALIFORNIA	
SITE PLAN	
	FIGURE 2

CITY: PETALUMA, CA DIV/GROUP: ENV DE: J. HARRIS
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- 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)
- MPE-1 ⊕ MULTI-PHASE EXTRACTION PILOT TEST WELL (PZ-1 IS LOCATED IN THE SAME BOREHOLE) (YEE SITE)
- MP-1 ⊕ PILOT TEST MONITORING POINT (YEE SITE)
- VE-1 ⊕ VAPOR EXTRACTION WELL (YEE SITE)
- VE-3 ▲ PILOT TEST VAPOR EXTRACTION WELL (YEE SITE)
- AS-1 ⊗ AIR SPARGE WELL (YEE SITE)
- (17.02) GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 17.0 — GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- ← 0.008 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)
- (NG) NOT GAUGED
- * NOT USED IN GROUNDWATER CONTOURING AND GRADIENT CALCULATION

- NOTES:
- 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'. MUIR SURVEY COMPLETED A SURVEY ON 8/21/13.
 - COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
 - MW-6 IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.
 - GROUNDWATER CONTOURS FOR 800/726 HARRISON STREET SEPARATE FROM 706 HARRISON STREET DUE TO SURVEYING DISCREPANCIES. 706 HARRISON TO BE RE-SURVEYED IN 2014.



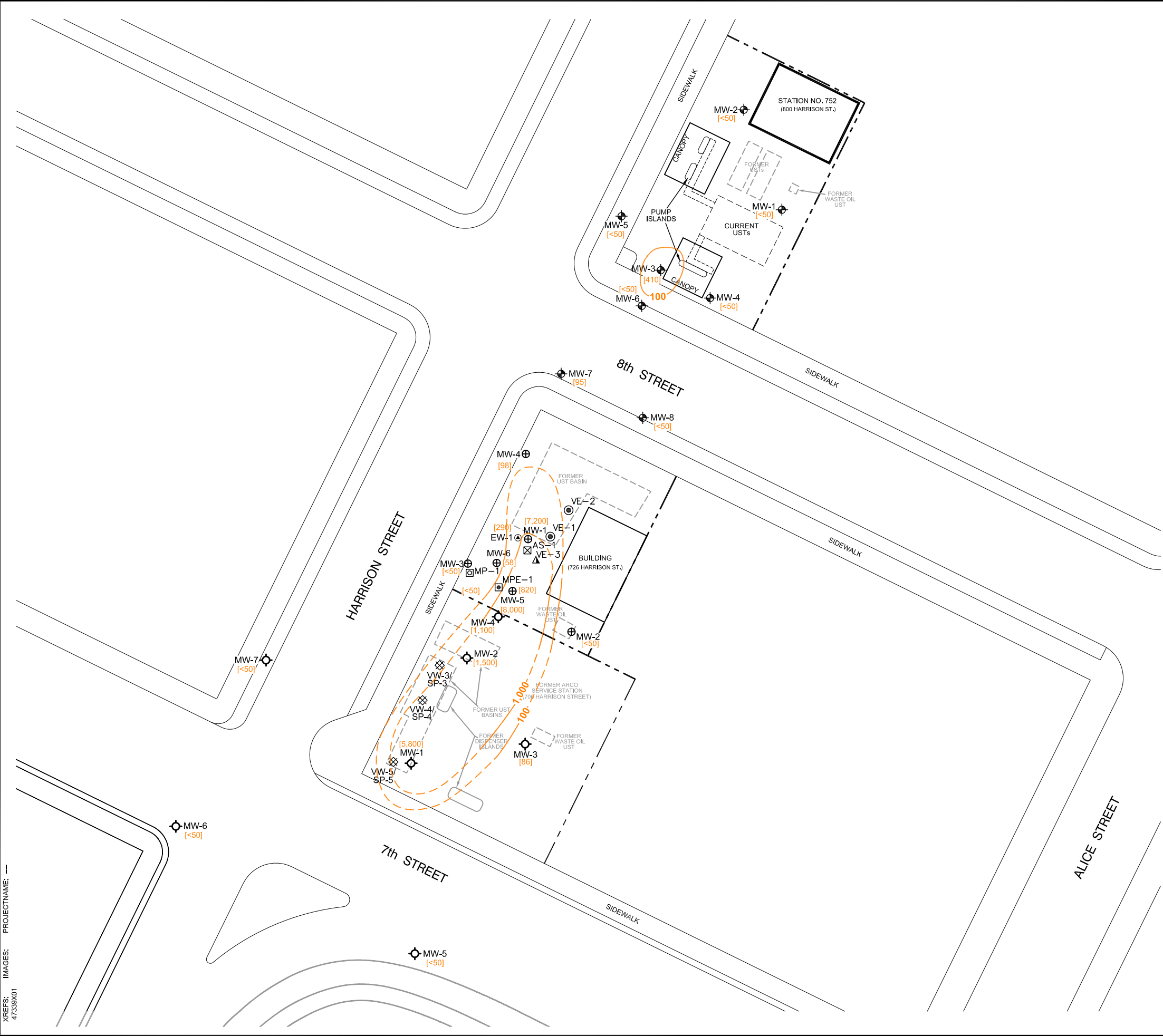
UNION OIL OF CALIFORNIA
 STATION NO. 0752/YEE/GIN COMMINGLED
 706/726/800 HARRISON STREET
 OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION
 CONTOUR MAP**

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FIGURE
3

CITY: PETALUMA, CA. DIV/GROUP: ENV. DB: J. HARRIS. G:\ENV\CAD\lakewood+co\ACT\T00047339\2013\47339\04.dwg. LAYOUT: 4. SAVED: 10/22/2013 12:17 PM. ACADVER: 18.1S (LMS TECH). PAGES: 4. PAGES SETUP: ---. PLOT STYLE TABLE: ARCADIS-DEN.CTB. PLOTTED: 10/11/2013 4:03 PM. BY: HOEFER, MATTHEW. XREFS: IMAGES: PROJECTNAME: ---. 47339X01

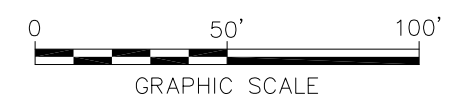


LEGEND

- 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)
- MPE-1 ⊕ MULTI-PHASE EXTRACTION PILOT TEST WELL (PZ-1 IS LOCATED IN THE SAME BOREHOLE)
- MP-1 ⊕ PILOT TEST MONITORING POINT
- VE-1 ⊕ VAPOR EXTRACTION WELL
- VE-3 ▲ PILOT TEST VAPOR EXTRACTION WELL
- AS-1 ⊗ AIR SPARGE WELL
- [95] TOTAL PURGEABLE PETROLEUM HYDROCARBONS (TPPH) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 ——— TPPH ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

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 IS NOT USED IN CONTOURING BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.



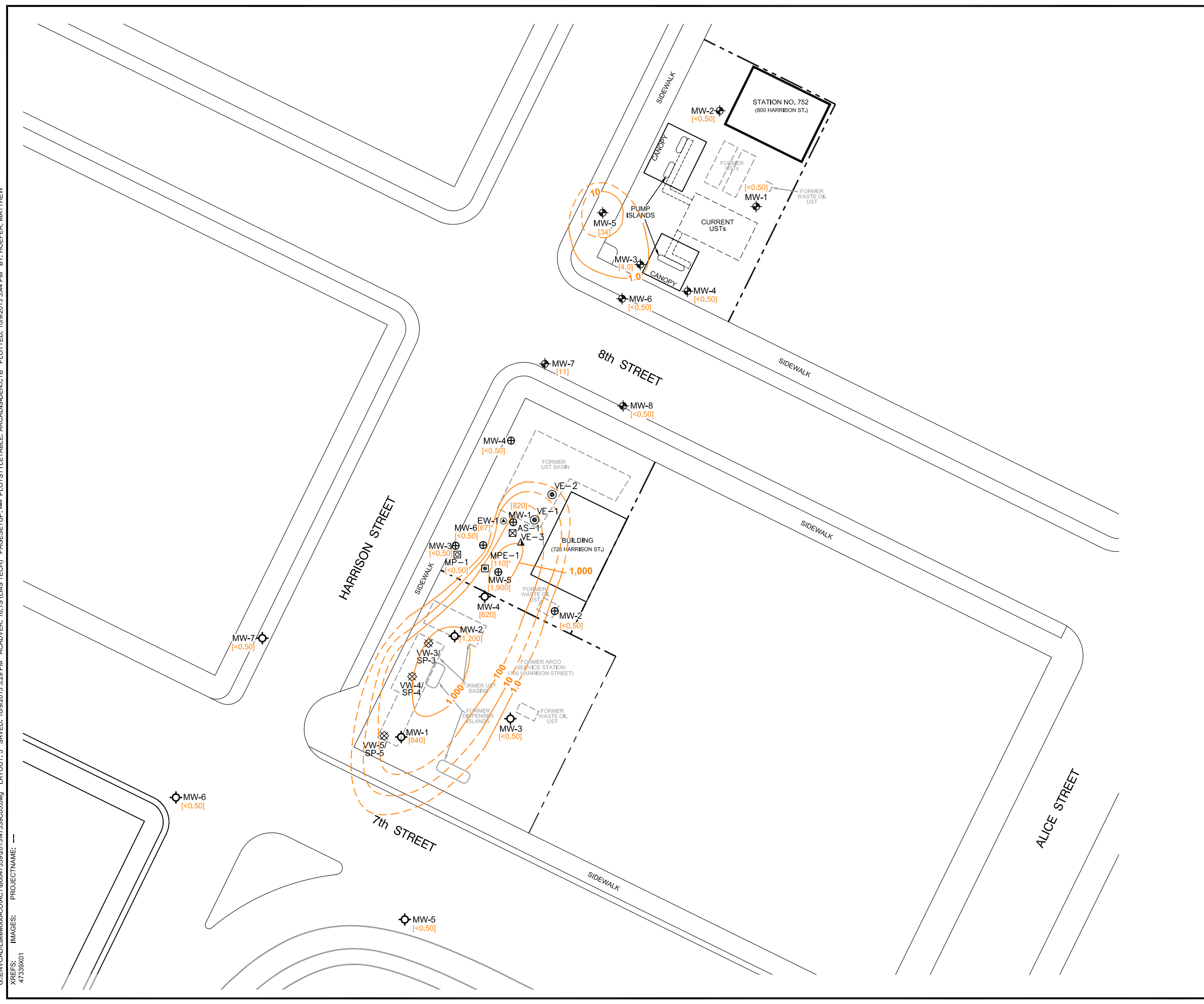
UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

TPPH CONCENTRATION MAP

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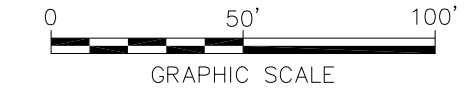
FIGURE
4

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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- LEGEND**
- PROPERTY BOUNDARY
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 - MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
 - MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
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 - VE-3 ▲ PILOT TEST VAPOR EXTRACTION WELL
 - AS-1 ⊗ AIR SPARGE WELL
 - [4.0] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
 - 100 — BENZENE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
 - < DENOTES LESS THAN LABORATORY REPORTING LIMIT
 - WELL NOT USED IN CONCENTRATION CONTOURING

- 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 IS NOT USED IN CONTOURING BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.



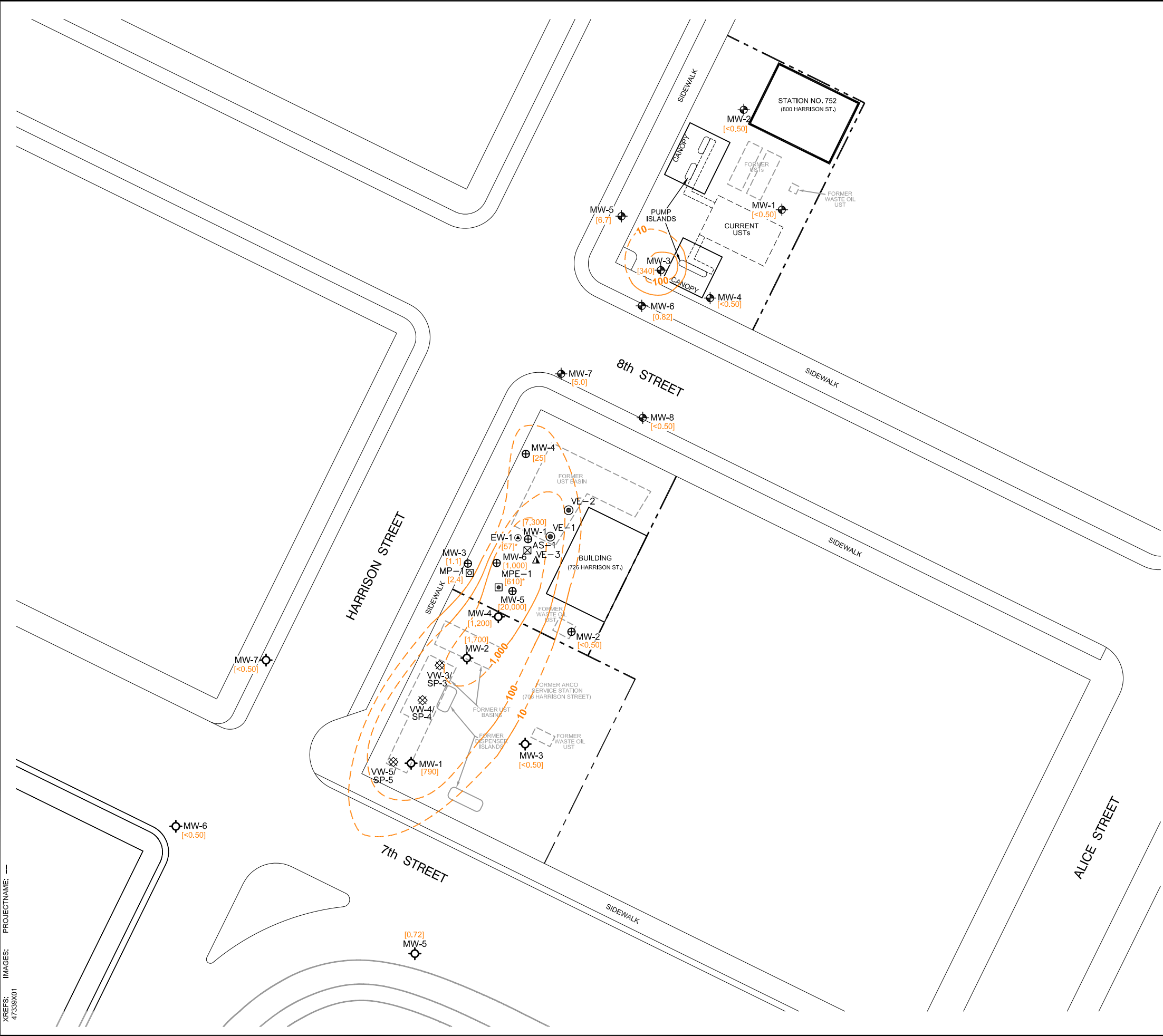
UNION OIL OF CALIFORNIA
 STATION NO. 0752/YEE/GIN COMMINGLED
 706/726/800 HARRISON STREET
 OAKLAND, CALIFORNIA

BENZENE CONCENTRATION MAP

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FIGURE
5

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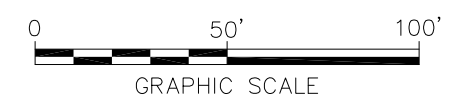


LEGEND

- PROPERTY BOUNDARY
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- MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
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- VE-1 ⊕ VAPOR EXTRACTION WELL
- VE-3 ▲ PILOT TEST VAPOR EXTRACTION WELL
- AS-1 ⊗ AIR SPARGE WELL
- [5.0] 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
- WELL NOT USED IN CONCENTRATION CONTOURING

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'.
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3. MW-6 IS NOT USED IN CONTOURING BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.



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

MTBE CONCENTRATION MAP

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FIGURE
6

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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	8/15/2013	37.22	20.20	0.00	17.02	15.31	1.71	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-2	8/15/2013	37.44	19.99	0.00	17.45	15.58	1.87	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-3	8/15/2013	35.88	19.17	0.00	16.71	14.82	1.89	410	4.0	<0.50	1.4	<1.0	340	<0.50	<0.50	<250	A01
MW-4	8/15/2013	35.42	18.70	0.00	16.72	14.89	1.83	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-5	8/15/2013	35.68	18.88	0.00	16.80	15.00	1.80	50	24	6.1	2.0	9.2	6.7	<0.50	<0.50	<250	
MW-6	8/15/2013	34.89	18.35	0.00	16.54	14.71	1.83	<50	<0.50	<0.50	<0.50	<1.0	0.82	<0.50	<0.50	<250	
MW-7	8/15/2013	34.92	18.70	0.00	16.22	14.37	1.85	95	11	1.3	<0.50	<1.0	5.0	<0.50	<0.50	<250	
MW-8	8/15/2013	34.73	18.46	0.00	16.27	14.45	1.82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
706 Harrison Street																	
MW-1	8/15/2013	29.17	17.89	0.00	11.28	12.14	-0.86	5,800	840	100	93	160	790	<5.0	<5.0	<2,500	A01
MW-2	8/15/2013	30.53	18.20	0.00	12.33	13.17	-0.84	1,500	1,200	5,600	820	4,400	1,700	<5.0	<5.0	<2,500	A01
MW-3	8/15/2013	29.79	17.60	0.00	12.19	13.04	-0.85	86	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-4	8/15/2013	31.20	18.70	0.00	12.50	--	--	1,100	620	38	62	67	1,200	<2.5	<2.5	<1,200	A01
MW-5	8/15/2013	28.07	16.55	0.00	11.52	12.39	-0.87	<50	<0.50	<0.50	<0.50	<1.0	0.72	<0.50	<0.50	<250	
MW-6	8/15/2013	29.13	17.78	0.00	11.35	12.20	-0.85	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7	8/15/2013	29.70	17.67	0.00	12.03	12.87	-0.84	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
726 Harrison Street																	
AS-1	8/15/2013	34.50	18.17	0.00	16.33	--	--	--	--	--	--	--	--	--	--	--	
EW-1	8/15/2013	34.37	18.98	0.00	15.39	--	--	290	67	1.7	1.3	3.3	57	<0.50	<0.50	<250	
MP-1	8/15/2013	34.16	19.03	0.00	15.13	--	--	<50	<0.50	<0.50	<0.50	<1.0	2.4	<0.50	<0.50	<250	
MPE-1	8/15/2013	34.36	19.24	0.00	15.12	--	--	820	110	23	17	45	610	<0.50	<0.50	<250	A01
MW-1	8/15/2013	34.45	19.03	0.00	15.42	13.77	1.65	7,200	820	50	65	99	7,300	<5.0	<5.0	<2,500	A01
MW-2	8/15/2013	34.91	19.77	0.00	15.14	13.49	1.65	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-3	8/15/2013	34.12	18.95	0.00	15.17	13.52	1.65	<50	<0.50	<0.50	<0.50	<1.0	1.1	<0.50	<0.50	<250	
MW-4	8/15/2013	35.05	19.34	0.00	15.71	14.06	1.65	98	<0.50	<0.50	<0.50	<1.0	25	<0.50	<0.50	<250	
MW-5	8/15/2013	34.76	19.40	0.00	15.36	--	--	8,000	1,900	590	390	1,100	20,000	<0.50	<0.50	<250	A01
MW-6	8/15/2013	34.53	28.85	0.00	5.68	5.56	0.12	58	<0.50	<0.50	<0.50	<1.0	1,000	<0.50	0.79	<250	A01

Note

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

Muir Consulting, Inc. completed a survey of 726 Harrison well locations on August 21, 2013. Elevation data for 800 Harrison Street was converted by using the National Geodetic Survey (NGS) online conversion calculator located from NAV29 to NAV88. The 706 Harrison Street data was not converted due to discrepancies of the data.

Standard Abbreviations

- not analyzed, measured, or collected
- *-- not surveyed
- < not detected at or above laboratory detection limit

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

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 CaCO ₃ (mg/l)	Nitrate as NO ₃ (mg/l)	Nitrite as NO ₂ (mg/l)	Sulfate (mg/l)	Non-Volatile Organic Carbon	Comments
800 Harrison Street								
MW-1	8/15/2013	<0.0010	45	1.9	<0.17	12	0.75	
MW-2	8/15/2013	<0.0010	68	10	<0.17	60	0.88	
MW-3	8/15/2013	1.6	230	<0.44	<0.17	11	3.7	A01
MW-4	8/15/2013	0.0017	68	2.2	<0.17	14	1.2	
MW-5	8/15/2013	0.0040	150	<0.44	<0.17	7.4	2.9	
MW-6	8/15/2013	<0.0010	110	0.71	<0.17	13	2.0	
MW-7	8/15/2013	<0.0010	100	<0.44	<0.17	17	2.1	
MW-8	8/15/2013	<0.0010	98	1.0	<0.17	17	1.9	
706 Harrison Street								
MW-1	8/15/2013	0.32	430	<0.44	<0.17	34	12	A01
MW-2	8/15/2013	3.3	520	<0.44	<0.17	<1.0	24	A01
MW-3	8/15/2013	0.0036	120	34	<0.17	44	1.4	
MW-4	8/15/2013	0.45	510	<0.44	<0.17	4.0	15	A01
MW-5	8/15/2013	0.0010	150	19	<0.17	51	2.6	
MW-6	8/15/2013	<0.0010	180	<0.44	<0.17	62	3.4	
MW-7	8/15/2013	<0.0010	250	<0.44	<0.17	58	4.4	
726 Harrison Street								
AS-1	8/15/2013	--	--	--	--	--	--	
EW-1	8/15/2013	<0.0010	150	1.1	<0.17	13	2.5	
MP-1	8/15/2013	0.51	230	<0.44	<0.17	14	6.4	
MPE-1	8/15/2013	<0.0010	82	66	<0.17	27	1.1	
MW-1	8/15/2013	1.7	430	<0.44	<0.17	<1.0	29	A01
MW-2	8/15/2013	0.0021	97	62	<0.17	32	2.6	
MW-3	8/15/2013	<0.0010	160	<0.44	<0.17	19	1.9	
MW-4	8/15/2013	<0.0010	290	<0.44	<0.17	15	3.9	
MW-5	8/15/2013	2.2	670	<0.44	<0.17	<1.0	28	A01
MW-6	8/15/2013	0.0051	180	6.3	<0.17	26	7.4	A01

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	8/15/2013	<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	<2.0	<3.0
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
706 Harrison Street																													
MW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726 Harrison Street																													
AS-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MP-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MPE-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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	Endosulfa n I (alpha-Endosulfa	Endo-sulfan II	Endo-sulfan Sulfate	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	8/15/2013	<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	<2.0
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
706 Harrison Street																														
MW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726 Harrison Street																														
AS-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MP-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MPE-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well ID	Date Sampled	Iso-phorone	2-Methyl-naphthalene	Naphthalene	2-Naphthalene-amine	2-Nitro-aniline	3-Nitro-aniline	4-Nitro-aniline	Nitro-benzene	N-Nitrosodimethyl-amine	N-Nitrosodi-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	8/15/2013	<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	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
706 Harrison Street																											
MW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
726 Harrison Street																											
AS-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MP-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MPE-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-1	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 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	8/15/2013	<10	<10	52	<50	<10	<10	
MW-2	8/15/2013	--	--	<50	--	--	--	
MW-3	8/15/2013	--	--	4,200	--	--	--	
MW-4	8/15/2013	--	--	61	--	--	--	
MW-5	8/15/2013	--	--	580	--	--	--	
MW-6	8/15/2013	--	--	100	--	--	--	
MW-7	8/15/2013	--	--	260	--	--	--	
MW-8	8/15/2013	--	--	71	--	--	--	
706 Harrison Street								
MW-1	8/15/2013	--	--	3,100	--	--	--	
MW-2	8/15/2013	--	--	7,800	--	--	--	
MW-3	8/15/2013	--	--	<50	--	--	--	
MW-4	8/15/2013	--	--	3,300	--	--	--	
MW-5	8/15/2013	--	--	<50	--	--	--	
MW-6	8/15/2013	--	--	120	--	--	--	
MW-7	8/15/2013	--	--	340	--	--	--	
726 Harrison Street								
AS-1	8/15/2013	--	--	--	--	--	--	
EW-1	8/15/2013	--	--	1,300	--	--	--	
MP-1	8/15/2013	--	--	3,500	--	--	--	
MPE-1	8/15/2013	--	--	<50	--	--	--	
MW-1	8/15/2013	--	--	3,500	--	--	--	
MW-2	8/15/2013	--	--	<50	--	--	--	
MW-3	8/15/2013	--	--	110	--	--	--	
MW-4	8/15/2013	--	--	1,300	--	--	--	
MW-5	8/15/2013	--	--	7,300	--	--	--	
MW-6	8/15/2013	--	--	<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-1	8/15/2013	37.22	20.20	0.00	17.02	15.31	1.71	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<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-2	8/15/2013	37.44	19.99	0.00	17.45	15.58	1.87	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<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-3	8/15/2013	35.88	19.17	0.00	16.71	14.82	1.89	410	4.0	<0.50	1.4	<1.0	340	<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-4	8/15/2013	35.42	18.70	0.00	16.72	14.89	1.83	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<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-5	8/15/2013	35.68	18.88	0.00	16.80	15.00	1.80	50	24	6.1	2.0	9.2	6.7	<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-6	8/15/2013	34.89	18.35	0.00	16.54	14.71	1.83	<50	<0.50	<0.50	<0.50	<1.0	0.82	<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-7	8/15/2013	34.92	18.70	0.00	16.22	14.37	1.85	95	11	1.3	<0.50	<1.0	5.0	<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	
MW-8	8/15/2013	34.73	18.46	0.00	16.27	14.45	1.82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<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
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-1	8/15/2013	29.17	17.89	0.00	11.28	12.14	-0.86	5,800	840	100	93	160	790	<5.0	<5.0	<2,500	A01
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
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-2	8/15/2013	30.53	18.20	0.00	12.33	13.17	-0.84	1,500	1,200	5,600	820	4,400	1,700	<5.0	<5.0	<2,500	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-3	8/15/2013	29.79	17.60	0.00	12.19	13.04	-0.85	86	<0.50	<0.50	<0.50	<1.0	<0.50	<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-4	8/15/2013	31.20	18.70	0.00	12.50	--	--	1,100	620	38	62	67	1,200	<2.5	<2.5	<1,200	A01
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-5	8/15/2013	28.07	16.55	0.00	11.52	12.39	-0.87	<50	<0.50	<0.50	<0.50	<1.0	0.72	<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-6	8/15/2013	29.13	17.78	0.00	11.35	12.20	-0.85	<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	
MW-7	8/15/2013	29.70	17.67	0.00	12.03	12.87	-0.84	<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

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
726 Harrison Street																	
AS-1	8/15/2013	34.50	18.17	0.00	16.33	--	--	--	--	--	--	--	--	--	--	--	
EW-1	2/27/2013	*--	18.17	0.00	*--	--	--	960	180	6.0	3.6	12	170	<0.50	<0.50	<250	A01
EW-1	8/15/2013	34.37	18.98	0.00	15.39	--	--	290	67	1.7	1.3	3.3	57	<0.50	<0.50	<250	
MP-1	8/15/2013	34.16	19.03	0.00	15.13	--	--	<50	<0.50	<0.50	<0.50	<1.0	2.4	<0.50	<0.50	<250	
MPE-1	8/15/2013	34.36	19.24	0.00	15.12	--	--	820	110	23	17	45	610	<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-1	8/15/2013	34.45	19.03	0.00	15.42	13.77	1.65	7,200	820	50	65	99	7,300	<5.0	<5.0	<2,500	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-2	8/15/2013	34.91	19.77	0.00	15.14	13.49	1.65	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<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	
MW-3	8/15/2013	34.12	18.95	0.00	15.17	13.52	1.65	<50	<0.50	<0.50	<0.50	<1.0	1.1	<0.50	<0.50	<250	
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-4	8/15/2013	35.05	19.34	0.00	15.71	14.06	1.65	98	<0.50	<0.50	<0.50	<1.0	25	<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-5	8/15/2013	34.76	19.40	0.00	15.36	--	--	8,000	1,900	590	390	1,100	20,000	<0.50	<0.50	<250	A01
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
MW-6	8/15/2013	34.53	28.85	0.00	5.68	5.56	0.12	58	<0.50	<0.50	<0.50	<1.0	1,000	<0.50	0.79	<250	A01

Note

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

Muir Consulting, Inc. completed a survey of 726 Harrison well locations on August 21, 2013. Elevation data for 800 Harrison Street was converted by using the National Geodetic Survey (NGS) online conversion calculator located from NAV29 to NAV88. The 706 Harrison Street data was not converted due to discrepancies of the data.

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)
- ** Survey completed 8/21/2013

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-1	8/15/2013	<0.0010	45	1.9	<0.17	12	0.75	
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-2	8/15/2013	<0.0010	68	10	<0.17	60	0.88	
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-3	8/15/2013	1.6	230	<0.44	<0.17	11	3.7	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-4	8/15/2013	0.0017	68	2.2	<0.17	14	1.2	
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-5	8/15/2013	0.0040	150	<0.44	<0.17	7.4	2.9	
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-6	8/15/2013	<0.0010	110	0.71	<0.17	13	2.0	
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-7	8/15/2013	<0.0010	100	<0.44	<0.17	17	2.1	
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	
MW-8	8/15/2013	<0.0010	98	1.0	<0.17	17	1.9	
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-1	8/15/2013	0.32	430	<0.44	<0.17	34	12	A01
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-2	8/15/2013	3.3	520	<0.44	<0.17	<1.0	24	A01
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-3	8/15/2013	0.0036	120	34	<0.17	44	1.4	
MW-4	8/9/2012	--	--	--	--	--	--	Parked Car
MW-4	2/27/2013	--	--	--	--	--	--	Parked Car
MW-4	8/15/2013	0.45	510	<0.44	<0.17	4.0	15	A01
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-5	8/15/2013	0.0010	150	19	<0.17	51	2.6	

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
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-6	8/15/2013	<0.0010	180	<0.44	<0.17	62	3.4	
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	
MW-7	8/15/2013	<0.0010	250	<0.44	<0.17	58	4.4	
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								
AS-1	8/15/2013	--	--	--	--	--	--	
EW-1	2/27/2013	0.91	210	0.5	<0.17	10	3.2	A01
EW-1	8/15/2013	<0.0010	150	1.1	<0.17	13	2.5	
MP-1	8/15/2013	0.51	230	<0.44	<0.17	14	6.4	
MPE-1	8/15/2013	<0.0010	82	66	<0.17	27	1.1	
MW-1	8/9/2012	--	--	--	--	--	--	
MW-1	2/27/2013	0.51	230	<0.44	<0.17	14	6.4	A01
MW-1	8/15/2013	1.7	430	<0.44	<0.17	<1.0	29	
MW-2	8/9/2012	--	--	--	--	--	--	
MW-2	2/27/2013	<0.0010	82	66	<0.17	27	1.1	
MW-2	8/15/2013	0.0021	97	62	<0.17	32	2.6	
MW-3	8/9/2012	--	--	--	--	--	--	
MW-3	2/27/2013	0.0012	160	<0.44	<0.17	22	2.0	
MW-3	8/15/2013	<0.0010	160	<0.44	<0.17	19	1.9	
MW-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	0.32	400	<0.44	<0.17	13	4.8	
MW-4	8/15/2013	<0.0010	290	<0.44	<0.17	15	3.9	
MW-5	8/9/2012	--	--	--	--	--	--	
MW-5	2/27/2013	--	--	--	--	--	--	Parked Car A01
MW-5	8/15/2013	2.2	670	<0.44	<0.17	<1.0	28	
MW-6	8/9/2012	--	--	--	--	--	--	
MW-6	2/27/2013	0.0033	170	6.2	<0.17	25	0.70	A01
MW-6	8/15/2013	0.0051	180	6.3	<0.17	26	7.4	

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	<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	<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	<2.0	<3.0
MW-1	8/15/2013	<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	<2.0	<3.0
MW-2	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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	Endosulfa n I (alpha-Endosulfa	Endo-sulfan II	Endo-sulfan Sulfate	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	<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	<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	<2.0	<2.0				
MW-1	8/15/2013	<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	<2.0	<2.0				
MW-2	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-2	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-2	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-3	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-4	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well ID	Date Sampled	Iso-phorone	2-Methyl-naphthalene	Naphthalene	2-Naphthalene-amine	2-Nitro-aniline	3-Nitro-aniline	4-Nitro-aniline	Nitro-benzene	N-Nitrosodimethyl-amine	N-Nitrosodi-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	2/7/2012	<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	<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	<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	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<10	<2.0
MW-1	8/15/2013	<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	<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-2	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-6	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-7	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	8/9/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	2/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-8	8/15/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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 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-1	8/15/2013	<10	<10	52	<50	<10	<10	
MW-2	2/7/2012	--	--	--	--	--	--	
MW-2	8/9/2012	--	--	2,200	--	--	--	
MW-2	2/27/2013	--	--	56	--	--	--	
MW-2	8/15/2013	--	--	<50	--	--	--	
MW-3	2/7/2012	--	--	--	--	--	--	
MW-3	8/9/2012	--	--	5,700	--	--	--	
MW-3	2/27/2013	--	--	8,400	--	--	--	
MW-3	8/15/2013	--	--	4,200	--	--	--	
MW-4	2/7/2012	--	--	--	--	--	--	
MW-4	8/9/2012	--	--	<50	--	--	--	
MW-4	2/27/2013	--	--	<50	--	--	--	
MW-4	8/15/2013	--	--	61	--	--	--	
MW-5	2/7/2012	--	--	--	--	--	--	
MW-5	8/9/2012	--	--	860	--	--	--	
MW-5	2/27/2013	--	--	860	--	--	--	
MW-5	8/15/2013	--	--	580	--	--	--	
MW-6	2/7/2012	--	--	--	--	--	--	
MW-6	8/9/2012	--	--	160	--	--	--	
MW-6	2/27/2013	--	--	<50	--	--	--	
MW-6	8/15/2013	--	--	100	--	--	--	
MW-7	2/7/2012	--	--	--	--	--	--	
MW-7	8/9/2012	--	--	670	--	--	--	
MW-7	2/27/2013	--	--	1,000	--	--	--	
MW-7	8/15/2013	--	--	260	--	--	--	
MW-8	2/7/2012	--	--	--	--	--	--	
MW-8	8/9/2012	--	--	680	--	--	--	
MW-8	2/27/2013	--	--	1,400	--	--	--	
MW-8	8/15/2013	--	--	71	--	--	--	
706 Harrison Street								
MW-1	8/9/2012	--	--	830	--	--	--	
MW-1	2/27/2013	--	--	--	--	--	--	Parked Car
MW-1	8/15/2013	--	--	3,100	--	--	--	
MW-2	8/9/2012	--	--	6,900	--	--	--	
MW-2	2/27/2013	--	--	9,500	--	--	--	
MW-2	8/15/2013	--	--	7,800	--	--	--	
MW-3	8/9/2012	--	--	<50	--	--	--	
MW-3	2/27/2013	--	--	<50	--	--	--	
MW-3	8/15/2013	--	--	<50	--	--	--	

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-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	--	--	--	--	--	--	Parked Car
MW-4	8/15/2013	--	--	3,300	--	--	--	
MW-5	8/9/2012	--	--	<50	--	--	--	
MW-5	2/27/2013	--	--	<50	--	--	--	
MW-5	8/15/2013	--	--	<50	--	--	--	
MW-6	8/9/2012	--	--	<50	--	--	--	
MW-6	2/27/2013	--	--	94	--	--	--	
MW-6	8/15/2013	--	--	120	--	--	--	
MW-7	8/9/2012	--	--	860	--	--	--	
MW-7	2/27/2013	--	--	2,600	--	--	--	
MW-7	8/15/2013	--	--	340	--	--	--	
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								
AS-1	8/15/2013	--	--	--	--	--	--	
EW-1	2/27/2013	--	--	3,100	--	--	--	
EW-1	8/15/2013	--	--	1,300	--	--	--	
MP-1	8/15/2013	--	--	3,500	--	--	--	
MPE-1	8/15/2013	--	--	<50	--	--	--	
MW-1	8/9/2012	--	--	--	--	--	--	
MW-1	2/27/2013	--	--	2,000	--	--	--	
MW-1	8/15/2013	--	--	3,500	--	--	--	
MW-2	8/9/2012	--	--	--	--	--	--	
MW-2	2/27/2013	--	--	<50	--	--	--	
MW-2	8/15/2013	--	--	<50	--	--	--	
MW-3	8/9/2012	--	--	--	--	--	--	
MW-3	2/27/2013	--	--	<50	--	--	--	
MW-3	8/15/2013	--	--	110	--	--	--	
MW-4	8/9/2012	--	--	--	--	--	--	
MW-4	2/27/2013	--	--	4,300	--	--	--	
MW-4	8/15/2013	--	--	1,300	--	--	--	
MW-5	8/9/2012	--	--	--	--	--	--	
MW-5	2/27/2013	--	--	--	--	--	--	Parked Car
MW-5	8/15/2013	--	--	7,300	--	--	--	
MW-6	8/9/2012	--	--	--	--	--	--	

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-6	2/27/2013	--	--	<50	--	--	--	
MW-6	8/15/2013	--	--	<50	--	--	--	

Note

Analytical results given in micrograms per liter ($\mu\text{g/l}$)

Standard Abbreviations

$\mu\text{g/l}$ micrograms per liter (approx. equivalent to parts per billion, ppb)

ARCADIS

Attachment A

Field Data Sheets and General Procedures



GETTLER-RYAN INC.



TRANSMITTAL

August 23, 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 Well Development Event of August 13, 2013 Third Quarter Event of August 15, 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

STANDARD OPERATING PROCEDURE – WELL DEVELOPMENT 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 well development, each well is monitored for the presence of free-phase hydrocarbons and the depth to water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

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

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

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

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

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

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

CHEVRON SERVICE STATION #351646/0752
Oakland, CA

WELL DEVELOPMENT EVENT OF
August 13, 2013



GETTLER-RYAN INC.

WELL MONITORING/DEVELOPMENT FIELD DATA SHEET

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

Job Number: 385647
 Event Date: 8-13-13 (inclusive)
 Sampler: FT

Well ID: MPE-1
 Well Diameter: 4 in.
 Initial Total Depth: 32.13 ft.
 Final Total Depth: 32.13 ft.
 Depth to Water: 19.23 ft.

Date Monitored: 8-13-13

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

Check if water column is less than 0.50 ft.

12.90 xVF .66 = 8.51 x10 case volume = Estimated Purge Volume: 85.0 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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1715
 Sample Time/Date: — / —
 Approx. Flow Rate: ≈ 3.0 gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Weather Conditions: SUNNY
 Water Color: LT. BLU. Odor: 0 / N MODERATE
 Sediment Description: S-SILT
 DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>DS</u>)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1718</u>	<u>8.5</u>	<u>8.23</u>	<u>1526</u>	<u>21.3</u>		
<u>1721</u>	<u>17.0</u>	<u>8.38</u>	<u>1521</u>	<u>20.6</u>		
<u>1724</u>	<u>25.5</u>	<u>8.32</u>	<u>1517</u>	<u>20.2</u>		
<u>1727</u>	<u>34.0</u>	<u>8.29</u>	<u>1514</u>	<u>20.0</u>		
<u>1730</u>	<u>42.5</u>	<u>8.27</u>	<u>1513</u>	<u>19.7</u>		
<u>1733</u>	<u>51.0</u>	<u>8.26</u>	<u>1510</u>	<u>19.8</u>		
<u>1736</u>	<u>59.5</u>	<u>8.23</u>	<u>1507</u>	<u>19.9</u>		
<u>1739</u>	<u>68.0</u>	<u>8.20</u>	<u>1505</u>	<u>19.7</u>		
<u>1742</u>	<u>76.5</u>	<u>8.16</u>	<u>1500</u>	<u>19.9</u>		
<u>1745</u>	<u>85.0</u>	<u>8.12</u>	<u>1496</u>	<u>19.9</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: INITIAL CGI READING: 0
 DEVELOP ONLY

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

CHEVRON SERVICE STATION #351646/0752
Oakland, CA

THIRD QUARTER EVENT OF
August 15, 2013



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8/15/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-1 Date Monitored: 8/15/13
 Well Diameter: 1 1/2 in.

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

 Total Depth: 33.50 ft.
 Depth to Water: 20.20 ft. Check if water column is less than 0.50 ft.
13.30 xVF 0.17 = 2.26 x3 case volume = Estimated Purge Volume: 6.78 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.86

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:	_____ gal

Start Time (purge): 1223 Weather Conditions: Clear
 Sample Time/Date: 1249 / 8/15/13 Water Color: gray Odor: ① N Slight
 Approx. Flow Rate: # gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.26

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{ms} (µmhos/cm µS)	Temperature (° F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1226</u>	<u>2.5</u>	<u>7.13</u>	<u>0.14</u>	<u>21.9</u>	PRE: <u>3.6</u>	PRE: <u>-62</u>	PRE: <u>310</u>
<u>1230</u>	<u>5</u>	<u>7.10</u>	<u>0.13</u>	<u>21.2</u>			
<u>1234</u>	<u>7</u>	<u>6.96</u>	<u>0.14</u>	<u>21.0</u>	POST: <u>4.2</u>	POST: <u>-70</u>	POST: <u>175</u>

LABORATORY INFORMATION

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

COMMENTS:

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385647
 Event Date: 8/15/13 (inclusive)
 Sampler: Joe

Well ID: MW-2
 Well Diameter: 1 1/2 in.
 Total Depth: 30.78 ft.
 Depth to Water: 19.99 ft.
10.79

Date Monitored: 8/15/13

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

Check if water column is less than 0.50 ft.

xVF 0.17 = 1.83 x3 case volume = Estimated Purge Volume: 5.50 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.14

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): 1142 Weather Conditions: Clear
 Sample Time/Date: 1204 / 8/15/13 Water Color: gray Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.15

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{ms} (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1145</u>	<u>2</u>	<u>6.87</u>	<u>0.62</u>	<u>20.9</u>	PRE: <u>0.9</u>	PRE: <u>332</u>	PRE: <u>95</u>
<u>1149</u>	<u>4</u>	<u>6.93</u>	<u>0.60</u>	<u>20.7</u>			
<u>1153</u>	<u>5.5</u>	<u>6.85</u>	<u>0.60</u>	<u>20.7</u>	POST: <u>1.3</u>	POST: <u>214</u>	POST: <u>90</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8/15/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-3 Date Monitored: 8/15/13
 Well Diameter: 1 1/2 in. Volume Factor (VF) table:
 Total Depth: 30.50 ft. 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38
 Depth to Water: 19.17 ft. 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80
11.33 xVF 0.17 = 1.92 x3 case volume = Estimated Purge Volume: 5.77 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.43

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): 0834 Weather Conditions: overcast
 Sample Time/Date: 0858 / 8/15/13 Water Color: gray Odor: 0 / N slight
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.32

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0837</u>	<u>2</u>	<u>6.78</u>	<u>0.66</u>	<u>19.9</u>	PRE: <u>2.7</u>	PRE: <u>-58</u>	PRE: <u>590</u>
<u>0840</u>	<u>4</u>	<u>6.73</u>	<u>0.65</u>	<u>19.9</u>			
<u>0844</u>	<u>6</u>	<u>6.70</u>	<u>0.64</u>		POST: <u>3.3</u>	POST: <u>-64</u>	POST: <u>202</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8/15/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-4 Date Monitored: 8/15/13

Well Diameter: 1 1/2 in. Total Depth: 32.00 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

Depth to Water: 18.70 ft. Check if water column is less than 0.50 ft.
13.30 xVF 0.17 = 2.26 x3 case volume = Estimated Purge Volume: 6.78 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.36

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): 0909 Weather Conditions: overcast
 Sample Time/Date: 0935 / 8/15/13 Water Color: gray Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.82

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0913</u>	<u>2.5</u>	<u>6.98</u>	<u>0.22</u>	<u>20.4</u>	PRE: <u>2.6</u>	PRE: <u>-29</u>	PRE: <u>659</u>
<u>0918</u>	<u>5</u>	<u>6.96</u>	<u>0.21</u>	<u>20.3</u>			
<u>0922</u>	<u>7</u>	<u>6.</u>	<u>0.21</u>	<u>20.3</u>	POST: <u>3.3</u>	POST: <u>-15</u>	POST: <u>229</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTX+MTBE(8260)/EDB/EDC(8260)
	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
	<u>3</u> x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS:

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8/15/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-5 Date Monitored: 8/15/13
 Well Diameter: 1 1/2 in. Volume Factor (VF) table:
 Total Depth: 31.62 ft. 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38
 Depth to Water: 18.88 ft. 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80
 Check if water column is less than 0.50 ft.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.42
 xVF 0.17 = 2.16 x3 case volume = Estimated Purge Volume: 6.49 gal.

Purge Equipment:	Sampling Equipment:	Time Started: _____ (2400 hrs)
Disposable Bailer <input checked="" type="checkbox"/>	Disposable Bailer <input checked="" type="checkbox"/>	Time Completed: _____ (2400 hrs)
Stainless Steel Bailer _____	Pressure Bailer _____	Depth to Product: _____ ft
Stack Pump _____	Metal Filters _____	Depth to Water: _____ ft
Suction Pump _____	Peristaltic Pump _____	Hydrocarbon Thickness: _____ ft
Grundfos _____	QED Bladder Pump _____	Visual Confirmation/Description: _____
Peristaltic Pump _____	Other: _____	Skimmer / Absorbant Sock (circle one)
QED Bladder Pump _____		Amt Removed from Skimmer: _____ gal
Other: _____		Amt Removed from Well: _____ gal
		Water Removed: _____

Start Time (purge): 1039 Weather Conditions: Clear
 Sample Time/Date: 1107 / 8/15/13 Water Color: gray Odor: Y/N Moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm @ 25°C)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1044</u>	<u>26.88</u>	<u>6.88</u>	<u>0.40</u>	<u>21.9</u>	PRE: <u>1.8</u>	PRE: <u>-35</u>	PRE: <u>557</u>
<u>1047</u>	<u>4</u>	<u>6.82</u>	<u>0.39</u>	<u>21.8</u>			
<u>1054</u>	<u>6.5</u>	<u>6.79</u>	<u>0.39</u>	<u>21.5</u>	POST: <u>2.4</u>	POST: <u>-17</u>	POST: <u>203</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	<u>3</u> x voa vial	YES	NP	BC LABS	METHANE
	<u>1</u> x 500ml ambers	YES	H2SO4	BC LABS	TOC
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8/15/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-6 Date Monitored: 8/15/13
 Well Diameter: 11 1/4 in.
 Total Depth: 30.85 ft.
 Depth to Water: 18.35 ft. Check if water column is less than 0.50 ft.
12.50 xVF 0.17 = 2.12 x3 case volume = Estimated Purge Volume: 6.37 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.85

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): 0952 Weather Conditions: clear
 Sample Time/Date: 1014 / 8/15/13 Water Color: gray Odor: Y 10P
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{me} (µmhos/cm µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0956</u>	<u>2</u>	<u>7.21</u>	<u>0.25</u>	<u>21.2</u>	PRE: <u>2.0</u>	PRE: <u>1</u>	PRE: <u>590</u>
<u>1000</u>	<u>4</u>	<u>7.16</u>	<u>0.25</u>	<u>20.7</u>			
<u>1004</u>	<u>6.5</u>	<u>7.06</u>	<u>0.24</u>	<u>20.5</u>	POST: <u>2.4</u>	POST: <u>-2</u>	POST: <u>193</u>

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: 3 Add/Replaced Lock: Add/Replaced Plug: 1 = 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: 8/15/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-7 Date Monitored: 8/15/13
 Well Diameter: 110/14 in.
 Total Depth: 31.38 ft.
 Depth to Water: 18.70 ft. Check if water column is less than 0.50 ft.
12.68 xVF 0.17 = 2.15 x3 case volume = Estimated Purge Volume: 6.46 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.23

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

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

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

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

Start Time (purge): 0745 Weather Conditions: overcast
 Sample Time/Date: 0805 / 8/15/13 Water Color: gray Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.90

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (umhos/cm μ S)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0749</u>	<u>2</u>	<u>7.52</u>	<u>0.28</u>	<u>19.7</u>	PRE: <u>2.1</u>	PRE: <u>40</u>	PRE: <u>40-609</u>
<u>0753</u>	<u>4</u>	<u>7.38</u>	<u>0.27</u>	<u>19.5</u>			
<u>0757</u>	<u>6.5</u>	<u>7.20</u>	<u>0.27</u>	<u>19.4</u>	POST: <u>2.9</u>	POST: <u>-50</u>	POST: <u>-52/95</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8/15/13 (inclusive)
 City: Oakland, CA Sampler: JOE

Well ID: MW-8 Date Monitored: 8/15/13
 Well Diameter: 1 1/2 in.
 Total Depth: 28.35 ft.
 Depth to Water: 18.46 ft. Check if water column is less than 0.50 ft.
9.89 xVF 0.17 = 1.68 x3 case volume = Estimated Purge Volume: 5.04 gal.
 Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): 20.43

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

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

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

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

Start Time (purge): 0700 Weather Conditions: overcast
 Sample Time/Date: 0725 / 8/15/13 Water Color: gray Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ^{MS} (µmhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0704</u>	<u>1.5</u>	<u>7.93</u>	<u>0.38</u>	<u>19.5</u>	PRE: <u>2.6</u>	PRE: <u>22</u>	PRE: <u>696</u>
<u>0706</u>	<u>3</u>	<u>7.72</u>	<u>0.37</u>	<u>19.3</u>			
<u>0710</u>	<u>5</u>	<u>7.70</u>	<u>0.37</u>	<u>19.1</u>	POST: <u>3.3</u>	POST: <u>-7</u>	POST: <u>234</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8-15-13 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: A-MW-1 Date Monitored: 8-15-13
 Well Diameter: 110/14 in.
 Total Depth: 24.39 ft.
 Depth to Water: 17.89 ft. Check if water column is less than 0.50 ft.
6.50 xVF .17 = 1.1 x3 case volume = Estimated Purge Volume: 3.3 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.19

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

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

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

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

Start Time (purge): 1130 Weather Conditions: SUNNY
 Sample Time/Date: 1200 / 8-15-13 Water Color: Brown Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.01

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) ^{ns}	Temperature (°F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1134</u>	<u>1</u>	<u>6.67</u>	<u>0.60</u>	<u>21.0</u>	PRE: <u>2.0</u>	PRE: <u>-46</u>	PRE: <u>42</u>
<u>1138</u>	<u>2</u>	<u>6.70</u>	<u>0.63</u>	<u>20.8</u>			
<u>1143</u>	<u>3.5</u>	<u>6.71</u>	<u>0.64</u>	<u>20.9</u>	POST: <u>2.1</u>	POST: <u>-39</u>	POST: <u>241</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>A-MW-1</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	<u>3</u> x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8-15-13 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: A-MW-2 Date Monitored: 8-15-13
 Well Diameter: 110/14 in.
 Total Depth: 24.84 ft.
 Depth to Water: 18.20 ft. Check if water column is less than 0.50 ft.
6.64 xVF 1.17 = 1.1 x3 case volume = Estimated Purge Volume: 3.3 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.52

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

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

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

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

Start Time (purge): 1035 Weather Conditions: SWWY
 Sample Time/Date: 1105 18-15-13 Water Color: Cloudy Gray Odor: DN medium
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.37

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 25°C)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1039</u>	<u>1</u>	<u>7.01</u>	<u>0.49</u>	<u>19.9</u>	<u>PRE: 1.0</u>	<u>PRE: 37</u>	<u>PRE: 26</u>
<u>1042</u>	<u>2</u>	<u>6.98</u>	<u>0.49</u>	<u>19.8</u>			
<u>1047</u>	<u>3.5</u>	<u>6.99</u>	<u>0.50</u>	<u>19.8</u>	<u>POST: 1.2</u>	<u>POST: 42</u>	<u>POST: 181</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385647
 Event Date: 8-15-13 (inclusive)
 Sampler: ML

Well ID: AMW-3
 Well Diameter: 110/4 in.
 Total Depth: 27.47 ft.
 Depth to Water: 17.60 ft.

Date Monitored: 8-15-13

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.57
 Check if water column is less than 0.50 ft.
 xVF 1.17 = 1.6 x3 case volume = Estimated Purge Volume: 4.8 gal.

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

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer X
 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): 0935 Weather Conditions: CLOUDY
 Sample Time/Date: 1005 8-15-13 Water Color: BROWN Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 17.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0940</u>	<u>1.5</u>	<u>7.10</u>	<u>0.35</u>	<u>20.2</u>	<u>PRE: 3.2</u>	<u>PRE: 6</u>	<u>PRE: 184</u>
<u>0945</u>	<u>3</u>	<u>7.11</u>	<u>0.34</u>	<u>20.1</u>			
<u>0951</u>	<u>5</u>	<u>7.14</u>	<u>0.33</u>	<u>20.0</u>	<u>POST: 2.7</u>	<u>POST: 16</u>	<u>POST: 197</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385647
 Event Date: 8-15-13 (inclusive)
 Sampler: ML

Well ID: A-MW-4
 Well Diameter: 11 1/4 in.
 Total Depth: 25.58 ft.
 Depth to Water: 18.70 ft.
6.88 xVF 1.7 = 1.1

Date Monitored: 8-15-13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.07
 x3 case volume = Estimated Purge Volume: 3.3 gal.

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 1215 Weather Conditions: Sunny
 Sample Time/Date: 1245 8-15-13 Water Color: Cloudy Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.94

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm @ 25°C)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1219</u>	<u>1</u>	<u>7.37</u>	<u>0.67</u>	<u>21.7</u>	PRE: <u>1.1</u>	PRE: <u>-41</u>	PRE: <u>49</u>
<u>1222</u>	<u>2</u>	<u>7.33</u>	<u>0.68</u>	<u>21.5</u>			
<u>1227</u>	<u>3.5</u>	<u>7.34</u>	<u>0.67</u>	<u>21.5</u>	POST: <u>0.9</u>	POST: <u>-50</u>	POST: <u>119</u>

LABORATORY INFORMATION

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

COMMENTS:

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8-15-13 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: A-MW-5 Date Monitored: 8-15-13
 Well Diameter: 110/14 in.
 Total Depth: 28.18 ft.
 Depth to Water: 16.55 ft. Check if water column is less than 0.50 ft.
11.63 xVF 1.7 = 1.9 x3 case volume = Estimated Purge Volume: 5.7 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.87

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

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

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

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

Start Time (purge): 0600 Weather Conditions: CLOUDY
 Sample Time/Date: 0630 8-15-13 Water Color: CLOUDY Odor: Y (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? N/A If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 16.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0600</u>	<u>2</u>	<u>6.81</u>	<u>0.41</u>	<u>19.5</u>	PRE: <u>2.1</u>	PRE: <u>41</u>	PRE: <u>140</u>
<u>0612</u>	<u>9</u>	<u>6.76</u>	<u>0.42</u>	<u>19.4</u>			
<u>0618</u>	<u>6</u>	<u>6.79</u>	<u>0.42</u>	<u>19.4</u>	POST: <u>1.8</u>	POST: <u>37</u>	POST: <u>146</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8-15-13 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: A-MW-6 Date Monitored: 8-15-13
 Well Diameter: 1 1/2 in. Volume Factor (VF) table:
 Total Depth: 25.95 ft. 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38
 Depth to Water: 17.78 ft. 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80
 Check if water column is less than 0.50 ft.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.41
 xVF 1.7 = 1.3 x3 case volume = Estimated Purge Volume: 3.9 gal.

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

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

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

Start Time (purge): 0650 Weather Conditions: CLOUDY
 Sample Time/Date: 0720 / 8-15-13 Water Color: CLOUDY Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 18.01

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0655</u>	<u>1.5</u>	<u>6.77</u>	<u>0.56</u>	<u>19.7</u>	PRE: <u>1.7</u>	PRE: <u>29</u>	PRE: <u>121</u>
<u>0700</u>	<u>3</u>	<u>6.78</u>	<u>0.52</u>	<u>19.5</u>			
<u>0704</u>	<u>4</u>	<u>6.79</u>	<u>0.54</u>	<u>19.4</u>	POST: <u>1.4</u>	POST: <u>42</u>	POST: <u>132</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>A-MW-6</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	<u>3</u> x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8-15-13 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: A-MW-7 Date Monitored: 8-15-13
 Well Diameter: 110/14 in.
 Total Depth: 27.73 ft.
 Depth to Water: 17.67 ft. Check if water column is less than 0.50 ft.
10.06 xVF .17 = 1.17 x3 case volume = Estimated Purge Volume: 5.1 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.68

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

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

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

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

Start Time (purge): 0740 Weather Conditions: CLOUDY
 Sample Time/Date: 0810 18-15-13 Water Color: Brown Odor: YKN
 Approx. Flow Rate: _____ gpm. Sediment Description: Liquid
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 17.79

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0746</u>	<u>2</u>	<u>6.67</u>	<u>0.51</u>	<u>19.6</u>	PRE: <u>1.8</u>	PRE: <u>41</u>	PRE: <u>229</u>
<u>0752</u>	<u>4</u>	<u>6.70</u>	<u>0.52</u>	<u>19.5</u>			
<u>0757</u>	<u>5.5</u>	<u>6.70</u>	<u>0.50</u>	<u>19.5</u>	POST: <u>1.6</u>	POST: <u>47</u>	POST: <u>220</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385647
 Event Date: 8-15-13 (inclusive)
 Sampler: ML

Well ID: SP-3
 Well Diameter: 1 1/4 in.
 Total Depth: UTL ft.
 Depth to Water: _____ ft.

Date Monitored: UTL

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

Check if water column is less than 0.50 ft.

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

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

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 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 voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: UTL

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385647
 Event Date: 8.15.13 (inclusive)
 Sampler: ML

Well ID: SP4
 Well Diameter: 1 1/4 in.
 Total Depth: UTL ft.
 Depth to Water: _____ ft.

Date Monitored: UTL

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

Check if water column is less than 0.50 ft.

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

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

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

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

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

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 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 voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: UTL

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8-15-13 (inclusive)
 City: Oakland, CA Sampler: ML

Well ID: SP-5 Date Monitored: UPL
 Well Diameter: 1 1/2 1/4 in.
 Total Depth: UPL ft.
 Depth to Water: _____ ft. Check if water column is less than 0.50 ft.
 xVF _____ = _____ $x3$ case volume = Estimated Purge Volume: _____ gal.

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

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

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 (μ mhos/cm - μ S)	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 voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: UPL

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: 8.15.13 (inclusive)
 City: Oakland, CA Sampler: FR

Well ID: S-MW-1 Date Monitored: 8.15.13
 Well Diameter: 110/14 in.
 Total Depth: 27.20 ft.
 Depth to Water: 19.03 ft. Check if water column is less than 0.50 ft.
8.17 xVF .17 = 1.38 x3 case volume = Estimated Purge Volume: 4.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.66

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

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0830 Weather Conditions: FOG
 Sample Time/Date: 0850 8.15.13 Water Color: CLEAR Odor: 0/N STRONG
 Approx. Flow Rate: — gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (US))	Temperature (°/ F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0833</u>	<u>1.5</u>	<u>7.10</u>	<u>926</u>	<u>19.0</u>	<u>PRE: 2.5</u>	<u>PRE: -5</u>	<u>PRE: 34</u>
<u>0836</u>	<u>3.0</u>	<u>7.07</u>	<u>922</u>	<u>18.8</u>			
<u>0839</u>	<u>4.0</u>	<u>7.05</u>	<u>917</u>	<u>18.6</u>	<u>POST: 2.2</u>	<u>POST: -26</u>	<u>POST: 52.2</u>

LABORATORY INFORMATION

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

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8.15.13 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: S-MW-2
 Well Diameter: 110/4 in.
 Total Depth: 28.00 ft.
 Depth to Water: 19.77 ft.
8.23 xVF .17 = 1.39 x3 case volume = Estimated Purge Volume: 4.0 gal.

Date Monitored: 8.15.13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.41

Purge Equipment:

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

Sampling Equipment:

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

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

Start Time (purge): 0950 Weather Conditions: Sunny
 Sample Time/Date: 1010 / 8.15.13 Water Color: BRN. Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: S.SILY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.86

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - US)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0953</u>	<u>1.5</u>	<u>7.35</u>	<u>610</u>	<u>20.9</u>	<u>PRE: 4.5</u>	<u>PRE: 13</u>	<u>PRE: 862</u>
<u>0956</u>	<u>3.0</u>	<u>7.33</u>	<u>606</u>	<u>20.7</u>			
<u>0959</u>	<u>4.0</u>	<u>7.31</u>	<u>601</u>	<u>20.6</u>	<u>POST: 4.2</u>	<u>POST: 26</u>	<u>POST: 901</u>

LABORATORY INFORMATION

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

COMMENTS:

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: Add/Replaced Plug: (211)



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: 8-15-13 (inclusive)
 Sampler: FR

Well ID: S-MW-3
 Well Diameter: 11 1/4 in.
 Total Depth: 29.20 ft.
 Depth to Water: 18.95 ft.
10.25 xVF .17 = 1.74

Date Monitored: 8-15-13

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.0

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1030 Weather Conditions: Sunny
 Sample Time/Date: 1050 / 8-15-13 Water Color: LT-Brown Odor: Y / 0
 Approx. Flow Rate: _____ gpm. Sediment Description: S. Silty
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 25)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1033</u>	<u>1.5</u>	<u>7.28</u>	<u>615</u>	<u>20.7</u>	<u>PRE: 3.6</u>	<u>PRE: 38</u>	<u>PRE: 21.6</u>
<u>1036</u>	<u>3.0</u>	<u>7.25</u>	<u>610</u>	<u>20.5</u>			
<u>1040</u>	<u>5.0</u>	<u>7.23</u>	<u>606</u>	<u>20.2</u>	<u>POST: 3.3</u>	<u>POST: 31</u>	<u>POST: 88.6</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-3</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	1 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
	<u>3</u> x voa vial	YES	NP	BC LABS	METHANE
	1 x 500ml ambers	YES	H2SO4	BC LABS	TOC
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____

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



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: 8-15-13 (inclusive)
 Sampler: ML

Well ID: S-MW-4
 Well Diameter: 110/4 in.
 Total Depth: 29.70 ft.
 Depth to Water: 19.34 ft.
10.36 xVF = 1.7 x3 case volume = Estimated Purge Volume: 5.1 gal.

Date Monitored: 8-15-13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.41

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

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

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

Start Time (purge): 0835 Weather Conditions: CLOUDY
 Sample Time/Date: 0905/8-15-13 Water Color: CLOUDY Odor: COIN MEDICAL
 Approx. Flow Rate: _____ gpm. Sediment Description: Light
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) MS	Temperature (°F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0841</u>	<u>2</u>	<u>6.52</u>	<u>0.47</u>	<u>71.0</u>	PRE: <u>2.7</u>	PRE: <u>-51</u>	PRE: <u>126</u>
<u>0847</u>	<u>4</u>	<u>6.57</u>	<u>0.45</u>	<u>70.7</u>			
<u>0852</u>	<u>5.5</u>	<u>6.58</u>	<u>0.44</u>	<u>70.6</u>	POST: <u>2.5</u>	POST: <u>-44</u>	POST: <u>191</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-4</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	<u>3</u> x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385647
 Event Date: 8.15.13 (inclusive)
 Sampler: FR

Well ID: S-MW-5
 Well Diameter: 1 1/4 in.
 Total Depth: 28.50 ft.
 Depth to Water: 19.40 ft.
9.10 xVF = .17 = 1.54

Date Monitored: 8.15.13

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 5.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.22

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1225
 Sample Time/Date: 1245 / 8.15.13
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal.

Weather Conditions: Sunny
 Water Color: LT. Gray Odor: 0 / N / STRONG
 Sediment Description: S. Slurry
 DTW @ Sampling: 19.44

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 25)	Temperature (°F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1228</u>	<u>1.5</u>	<u>6.94</u>	<u>1346</u>	<u>21.0</u>	PRE: <u>1.1</u>	PRE: <u>-8</u>	PRE: <u>90.6</u>
<u>1231</u>	<u>3.0</u>	<u>6.92</u>	<u>1390</u>	<u>20.7</u>			
<u>1235</u>	<u>5.0</u>	<u>6.90</u>	<u>1335</u>	<u>20.4</u>	POST: <u>.80</u>	POST: <u>-24</u>	POST: <u>125.2</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-5</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	<u>3</u> x voa vial	YES	NP	BC LABS	METHANE
	x 500ml ambers	YES	H2SO4	BC LABS	TOC
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____

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
 Site Address: 800 Harrison Street
 City: Oakland, CA

Job Number: 385647
 Event Date: 8.15.13 (inclusive)
 Sampler: FT

Well ID: S-MW-6
 Well Diameter: 110/14 in.
 Total Depth: 48.09 ft.
 Depth to Water: 28.85 ft.
19-24 xVF .17 = 3.27 x3 case volume = Estimated Purge Volume: 10.0 gal.

Date Monitored: 8.15.13

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

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.69

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 / Absorbent 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: 1130 / 8.15.13 Water Color: Clean Odor: Y 10
 Approx. Flow Rate: 2.0 gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 28.92

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>US</u>)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1112</u>	<u>3.5</u>	<u>7.28</u>	<u>620</u>	<u>20.7</u>	<u>PRE: 2.8</u>	<u>PRE: 19</u>	<u>PRE: .58</u>
<u>1114</u>	<u>7.0</u>	<u>7.25</u>	<u>615</u>	<u>20.4</u>			
<u>1116</u>	<u>10.0</u>	<u>7.21</u>	<u>609</u>	<u>20.1</u>	<u>POST: 2.5</u>	<u>POST: 27</u>	<u>POST: 13.2</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>S-MW-6</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	<u>1</u> 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
	<u>3</u> x voa vial	YES	NP	BC LABS	METHANE
	<u>1</u> x 500ml ambers	YES	H2SO4	BC LABS	TOC
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351646 / 0752 Job Number: 385647
 Site Address: 800 Harrison Street Event Date: 8-15-13 (inclusive)
 City: Oakland, CA Sampler: FR

Well ID: S-EW-1 Date Monitored: 8-15-13
 Well Diameter: 1 1/2 1/4 (6) in.
 Total Depth: 28.68 ft.
 Depth to Water: 18.98 ft. Check if water column is less than 0.50 ft.
9.70 xVF 1.50 = 14.55 x3 case volume = Estimated Purge Volume: 44.0 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.92

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0745 Weather Conditions: FOL
 Sample Time/Date: 0812 / 8-15-13 Water Color: CLEAN Odor: ⓪ / N STEEL
 Approx. Flow Rate: ≈ 3.0 gpm. Sediment Description: NONE
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 20.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>US</u>)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0750</u>	<u>14.5</u>	<u>7.04</u>	<u>862</u>	<u>19.2</u>	<u>PRE: 1.8</u>	<u>PRE: -13</u>	<u>PRE: 252</u>
<u>0755</u>	<u>29.0</u>	<u>6.98</u>	<u>858</u>	<u>19.0</u>			
<u>0800</u>	<u>44.0</u>	<u>6.99</u>	<u>853</u>	<u>18.9</u>	<u>POST: 1.5</u>	<u>POST: -52</u>	<u>POST: 234</u>

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: Add/Replaced Plug: (211)



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: 8.15.13 (inclusive)
 Sampler: FR

Well ID: MPE-1
 Well Diameter: 1 1/2 in.
 Total Depth: 32.13 ft.
 Depth to Water: 19.24 ft.
12.89 xVF .66 = 8.50

Date Monitored: 8.15.13

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

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 260 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.81

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): 0910 Weather Conditions: FOL
 Sample Time/Date: 0930 / 8.15.13 Water Color: cloudy grey Odor: 0 / N MODERATE
 Approx. Flow Rate: 23.0 gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.31

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>DS</u>)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>0913</u>	<u>8.5</u>	<u>7.27</u>	<u>1215</u>	<u>19.5</u>	<u>PRE: 1.2</u>	<u>PRE: -24</u>	<u>PRE: 191</u>
<u>0916</u>	<u>17.0</u>	<u>7.24</u>	<u>1208</u>	<u>19.3</u>			
<u>0919</u>	<u>26.0</u>	<u>7.22</u>	<u>1202</u>	<u>19.0</u>	<u>POST: .90</u>	<u>POST: -33</u>	<u>POST: 235</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MPE-1</u>	<u>1</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260)
	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015B)/BTEX+MTBE(8260)/EDB/EDC(8260)
	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
	x 1 liter ambers	YES	NP	BC LABS	SVOC's(8270)

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

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

Job Number: 385647
 Event Date: 8.15.13 (inclusive)
 Sampler: FR

Well ID: MP-1
 Well Diameter: 12 1/4 in.
 Total Depth: 30.00 ft.
 Depth to Water: 19.03 ft.

Date Monitored: 8.15.13

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

Check if water column is less than 0.50 ft.
 $10.97 \times VF .04 = .43$ x3 case volume = Estimated Purge Volume: 1.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.22

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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 1150 Weather Conditions: SYN
 Sample Time/Date: 1205 / 8.15.13 Water Color: BRN Odor: Y / 0
 Approx. Flow Rate: ✓ gpm. Sediment Description: SILT
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.06

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm -US)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	TURBIDITY
<u>1152</u>	<u>.25</u>	<u>7.96</u>	<u>765</u>	<u>22.4</u>	<u>PRE: 2.5</u>	<u>PRE: 18</u>	<u>PRE: 789</u>
<u>1154</u>	<u>.50</u>	<u>7.44</u>	<u>763</u>	<u>22.2</u>			
<u>1157</u>	<u>1.00</u>	<u>7.43</u>	<u>760</u>	<u>22.0</u>	<u>POST: 2.8</u>	<u>POST: 10</u>	<u>POST: OFF SCALE</u>

LABORATORY INFORMATION

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


COMMENTS: Emco 12" O/L

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

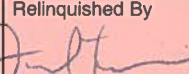

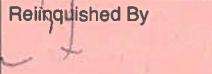

CHAIN OF CUSTODY FORM

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

COC 1 of 3

Union Oil Site ID: <u>0752</u>	Union Oil Consultant: <u>ARCADIS</u>	ANALYSES REQUIRED Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Special Instructions
Site Global ID: <u>T060010148L</u>	Consultant Contact: <u>KATHERINE BRANDT</u>	
Site Address: <u>800 HARRISON ST., OAKLAND, CA</u>	Consultant Phone No.: <u>(510) 596-9675</u>	
Union Oil PM: <u>TIMOTHY L. BISHOP</u>	Sampling Company: <u>GETTLEN-KYAN</u>	
Union Oil PM Phone No.: <u>(925) 790-6463</u>	Sampled By (PRINT): <u>FRANK, MIKE L, & JOEL</u>	
Charge Code: <u>NWRTB-0351646-0-LAB</u>	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. 661-827-4911

SAMPLE ID				Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS (C6-C12) (8015)	BTEX/MTBE/ Q by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/EDC (8260)	SVOCs (8270)	CO, CR, PB, Ni, Zn	DISSOLVED METALS (6010)	NITRATE/NITRITE	SULFATE / ALKALINITY	METHANE	T.O.C.	Notes / Comments	
Field Point Name	Matrix	Depth	Date (yymmdd)																	
<u>QA</u>	<u>W-S-A</u>		<u>13815</u>		<u>2</u>															
<u>MW-1</u>	<u>W-S-A</u>			<u>1249</u>	<u>14</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>MW-2</u>	<u>W-S-A</u>			<u>1204</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>MW-3</u>	<u>W-S-A</u>			<u>0858</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>MW-4</u>	<u>W-S-A</u>			<u>0935</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>MW-5</u>	<u>W-S-A</u>			<u>1107</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>MW-6</u>	<u>W-S-A</u>			<u>1014</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>MW-7</u>	<u>W-S-A</u>			<u>0805</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>MW-8</u>	<u>W-S-A</u>			<u>0725</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>A-MW-1</u>	<u>W-S-A</u>			<u>1200</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>A-MW-2</u>	<u>W-S-A</u>			<u>1105</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		
<u>A-MW-3</u>	<u>W-S-A</u>			<u>1005</u>	<u>11</u>	X	X	X	X	X	X	X	X	X	X	X	X	X		

Relinquished By:  Company: <u>6-IL</u> Date / Time: <u>8-15-13 1530</u>	Relinquished By:  Company: <u>BC Lab</u> Date / Time: <u>8-15-13 1530</u>	Relinquished By:  Company: <u>CHAD</u> Date / Time: <u>8-15-13 1530</u>
Received By:  Company: <u>BC Lab</u> Date / Time: <u>8-15-13 1530</u>	Received By: <u>Nancy Bogan</u> Company: <u>BC Lab</u> Date / Time: <u>8-15-13 1530</u>	Received By: _____ Company: _____ Date / Time: _____

CHAIN OF CUSTODY FORM

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

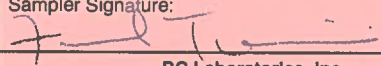
COC 2 of 3

Union Oil Site ID: <u>0752</u>				Union Oil Consultant: <u>A.L.C.A.D.I.S</u>		ANALYSES REQUIRED											
Site Global ID: <u>T0600101486</u>				Consultant Contact: <u>KATHLENE BRANDT</u>		TPH - Diesel by EPA 8015	TPH - G by 8015 (C6-C12) (8015)	BTEX/MTBE/ OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB EDC (8260)	DISSOLVED IRON/NITRATE/NITRITE	SULFATE ALKALINITY	METHANE	T.O.C.	Turnaround Time (TAT):	
Site Address: <u>800 HAMILTON ST., OAKLAND, CA</u>				Consultant Phone No.: <u>(510) 596-9675</u>												Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/>	
Union Oil PM: <u>TIMOTHY & BISHOP</u>				Consultant Phone No.: <u>(925) 790-6463</u>												48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>	
Union Oil PM Phone No.: <u>(925) 790-6463</u>				Sampling Company: <u>GERTLER - RYAN</u>												Special Instructions	
Charge Code: <u>NWRTB-0 35164L-0-LAB</u>				Sampled By (PRINT): <u>FRANK T., MIKE L. & JOEL</u>													
<p>This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.</p>				Sampler Signature: <u>[Signature]</u>													
				BC Laboratories, Inc. Project Manager: <u>Molly Meyers</u> 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911													
SAMPLE ID				Sample Time	# of Containers											Notes / Comments	
Field Point Name	Matrix	Depth	Date (yyymmdd)														
A-MW-4	W-S-A		13.8.15	1245	11	X	X	X	X	X	X	X	X	X	X	X	
A-MW-5	W-S-A			0630	11	X	X	X	X	X	X	X	X	X	X	X	
A-MW-6	W-S-A			0720	11	X	X	X	X	X	X	X	X	X	X	X	
A-MW-7	W-S-A			0810	11	X	X	X	X	X	X	X	X	X	X	X	
S-MW-1	W-S-A			0850	11	X	X	X	X	X	X	X	X	X	X	X	
S-MW-2	W-S-A			1010	11	X	X	X	X	X	X	X	X	X	X	X	
S-MW-3	W-S-A			1050	11	X	X	X	X	X	X	X	X	X	X	X	
S-MW-4	W-S-A			0905	11	X	X	X	X	X	X	X	X	X	X	X	
S-MW-5	W-S-A			1245	11	X	X	X	X	X	X	X	X	X	X	X	
S-MW-6	W-S-A			1130	11	X	X	X	X	X	X	X	X	X	X	X	
S-EW-1	W-S-A			0812	11	X	X	X	X	X	X	X	X	X	X	X	
MPE-1	W-S-A			0930	6	X	X	X	X	X	X	X	X	X	X	X	
Relinquished By			Company	Date / Time:	Relinquished By			Company	Date / Time:	Relinquished By			Company	Date / Time:			
<u>[Signature]</u>			<u>G-R</u>	<u>8.15.13</u>	<u>[Signature]</u>					<u>[Signature]</u>							
Received By			Company	Date / Time:	Received By			Company	Date / Time:	Received By			Company	Date / Time:			
<u>[Signature]</u>			<u>BC LAB</u>	<u>8-15-13</u>	<u>[Signature]</u>			<u>BC LAB</u>	<u>8-15-13</u>	<u>[Signature]</u>							

CHAIN OF CUSTODY FORM

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

COC 3 of 3

Union Oil Site ID: <u>0752</u>				Union Oil Consultant: <u>ALLCADIS</u>				ANALYSES REQUIRED																	
Site Global ID: <u>T060010148L</u>				Consultant Contact: <u>KATHERINE BRANDT</u>				TPH - Diesel by EPA 8015	TPH - G by EDC (C6-C12) (S015)	BTEX/MTBE/ EDC by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDC EDC (S260)	Turnaround Time (TAT):						Special Instructions					
Site Address: <u>800 HANNISON ST, OAKLAND, CA</u>				Consultant Phone No.: <u>(510) 596-9675</u>										Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/>											
Union Oil PM: <u>TIMOTHY L. BISHOP</u>				Sampling Company: <u>GETTLER-RYAN</u>										48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>											
Union Oil PM Phone No.: <u>(925) 790-6463</u>				Sampled By (PRINT): <u>FRANKT, MIKE L. & JOEL L.</u>										Notes / Comments											
Charge Code: <u>NWRB-0 351646-0-LAB</u>				Sampler Signature: 																					
<p><i>This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.</i></p>				BC Laboratories, Inc.																					
				Project Manager: <u>Molly Meyers</u> 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911																					
SAMPLE ID				Sample Time		# of Containers																			
Field Point Name	Matrix	Depth	Date (yymmdd)																						
<u>MP-1</u>	<u>W-S-A</u>		<u>13.8.15</u>	<u>1205</u>	<u>6</u>																				
	W-S-A																								
	W-S-A																								
	W-S-A																								
	W-S-A																								
	W-S-A																								
	W-S-A																								
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	W-S-A																								
	W-S-A																								
Relinquished By <u>Frankt</u> Company <u>GUL</u> Date / Time: <u>8.15.13</u>			Relinquished By <u>[Signature]</u> Company <u>GR</u> Date / Time: <u>08-15-13</u>			Relinquished By _____ Company _____ Date / Time: _____																			
Received By <u>[Signature]</u> Company <u>CL</u> Date / Time: <u>08-15-13 1530</u>			Received By <u>Louy Brown</u> Company <u>BeLAB</u> Date / Time: <u>8-15-13 1530</u>			Received By _____ Company _____ Date / Time: _____																			

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**

**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
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
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
7/15/1999	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**

**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
1/3/1994	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	

**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
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**

**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
7/19/2000	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
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	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	

**Table 2
HISTORICAL GROUNDWATER RESULTS**

**August 3, 2011
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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	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	--	--	--	--	--	--	--	--	--	--	--	--	
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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**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
7/30/2001	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
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
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

Date of Report: 08/29/2013

Kathy Brandt

Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Project: 0752
BC Work Order: 1317587
Invoice ID: B153963

Enclosed are the results of analyses for samples received by the laboratory on 8/15/2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Molly Meyers
Client Service Rep



Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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13-17587

CHAIN OF CUSTODY FORM

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

COC 1 of 3

Union Oil Site ID: <u>0752</u>				Union Oil Consultant: <u>ARCADIS</u>				ANALYSES REQUIRED										
Site Global ID: <u>T0600101486</u>				Consultant Contact: <u>KATHERINE BRANDT</u>				TPH - Diesel by EPA 8015 TPH - G by <u>(508)(1212-97)</u> by EPA 8260 BTX/MTBE/ <u>()</u> by EPA 8260 Ethanol by EPA 8260 EPA 8260B Fuji List with OXYS EDB/EDC (<u>8210</u>) SVOCs (<u>8270</u>) (Cd, Cr, Pb, Ni, Zn) DISSOLVED METALS (COLO) DISSOLVED IRON/NITRATE/NITRITE/ SULFATE ALKALINITY METHANE T.O.C.	Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>									
Site Address: <u>800 HARMISON ST., OAKLAND, CA</u>				Consultant Phone No.: <u>(510) 594-9675</u>					Special Instructions									
Site Oil PM: <u>TIMOTHY L. BISHOP</u>				Sampling Company: <u>GETTLER-RYAN</u>														
Site Oil PM Phone No.: <u>(925) 790-6463</u>				Sampled By (PRINT): <u>FRANK T., MIKE L., & JOEL</u>				Notes / Comments										
Charge Code: <u>NWRTB-0351646-0-LAB</u>				Sampler Signature: <u>[Signature]</u> BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakerfield, CA 93308 Phone No. 661-327-4911														
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.																		
SAMPLE ID																		
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by <u>(508)(1212-97)</u> by EPA 8260	BTX/MTBE/ <u>()</u> by EPA 8260	Ethanol by EPA 8260	EPA 8260B Fuji List with OXYS	EDB/EDC (<u>8210</u>)	SVOCs (<u>8270</u>)	(Cd, Cr, Pb, Ni, Zn)	DISSOLVED METALS (COLO)	DISSOLVED IRON/NITRATE/NITRITE/ SULFATE ALKALINITY	METHANE	T.O.C.	
-1	QA	W-S-A	13 8 15		2													
-2	MW-1	W-S-A		1249	14	X	X	X	X	X	X	X	X	X	X	X	X	X
-3	MW-2	W-S-A		1204	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-4	MW-3	W-S-A		0858	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-5	MW-4	W-S-A		0935	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-6	MW-5	W-S-A		1107	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-7	MW-6	W-S-A		1014	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-8	MW-7	W-S-A		0805	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-9	MW-8	W-S-A		0725	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-10	A-MW-1	W-S-A		1200	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-11	A-MW-2	W-S-A		1105	11	X	X	X	X	X	X	X	X	X	X	X	X	X
-12	A-MW-3	W-S-A		1005	11	X	X	X	X	X	X	X	X	X	X	X	X	X
Relinquished By			Company	Date / Time:		Relinquished By			Company	Date / Time:		Relinquished By			Company	Date / Time:		
<u>[Signature]</u>			<u>G-R</u>	<u>8.15.13 1530</u>		<u>[Signature]</u>			<u>GR</u>	<u>08-15-13 1530</u>		<u>[Signature]</u>			<u>Nancy Bogan BCLAB</u>	<u>8-15-13 1830</u>		
Received By			Company	Date / Time:		Received By			Company	Date / Time:		Received By			Company	Date / Time:		
<u>[Signature]</u>			<u>[Signature]</u>	<u>08-15-13 1530</u>		<u>[Signature]</u>			<u>Nancy Bogan BCLAB</u>	<u>8-15-13 1530</u>		<u>[Signature]</u>			<u>BCLAB</u>	<u>8-15-13 18:30</u>		
REL. <u>[Signature]</u> 8-15-13 22:35 Rec: <u>SAS</u> 8-15-13 2235																		

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13-17587

CHAIN OF CUSTODY FORM
 Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 2 of 3

Union Oil Site ID: <u>0752</u>			Union Oil Consultant: <u>ARCADIS</u>			ANALYSES REQUIRED									
Site Global ID: <u>T0600101486</u>			Consultant Contact: <u>KATHLENE BRANDT</u>			TPH - Diesel by EPA 8015	TPH - G by <u>(508) (212) 212</u> by EPA 8260	BTX/MTBE/ by EPA 8260	Ethanol by EPA 8260	EPA 8260B Full List with OXYS	EDC EDC (8270) DISSOLVED INORGANIC NITRATE SULFATE ALKALINITY	METHANE	T.O.C.	Turnaround Time (TAT):	
Site Address: <u>800 HAWKINS ST., OAKLAND, CA</u>			Consultant Phone No.: <u>(510) 596-9675</u>											Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/>	
Checked Oil PM: <u>TIMOTHY L. BISHOP</u>			Sampling Company: <u>CESTECH 2400</u>											48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>	
Checked Oil PM Phone No.: <u>(925) 790-6463</u>			Sampled By (PRINT): <u>FRANK T., MIKE L. & JOE L.</u>											Special Instructions	
Charge Code: <u>NWRTB-0 351644-0-LAB</u>			Sampler Signature: <u>[Signature]</u>			Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911									
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.															
SAMPLE ID			Date (yymmdd)	Sample Time	# of Containers	Notes / Comments									
Field Point Name	Matrix	Depth													
-13 A-MW-4	W-S-A		13.8.15	1245	11										
-14 A-MW-5	W-S-A			0630	11										
-15 A-MW-6	W-S-A			0720	11										
-16 A-MW-7	W-S-A			0810	11										
-17 S-MW-1	W-S-A			0850	11										
-18 S-MW-2	W-S-A			1010	11										
-19 S-MW-3	W-S-A			1050	11										
-20 S-MW-4	W-S-A			0905	11										
-21 S-MW-5	W-S-A			1245	11										
-22 S-MW-6	W-S-A			1130	11										
-23 S-EW-1	W-S-A			0812	11										
-24 MPE-1	W-S-A			0930	6										
Relinquished By: <u>[Signature]</u> Company: <u>G-R</u> Date / Time: <u>8.15.13 1530</u>			Relinquished By: <u>[Signature]</u> Company: <u>CRUC</u> Date / Time: <u>8-15-13 1530</u>			Relinquished By: <u>[Signature]</u> Company: <u>BCLAB</u> Date / Time: <u>8-15-13 1830</u>			Relinquished By: <u>[Signature]</u> Company: <u>BCLAB</u> Date / Time: <u>8-15-13 1830</u>						
Received By: <u>[Signature]</u> Company: <u>GRUC</u> Date / Time: <u>8-15-13 1530</u>			Received By: <u>[Signature]</u> Company: <u>BCLAB</u> Date / Time: <u>8-15-13 1530</u>			Received By: <u>[Signature]</u> Company: <u>BCLAB</u> Date / Time: <u>8-15-13 1830</u>			Received By: <u>[Signature]</u> Company: <u>BCLAB</u> Date / Time: <u>8-15-13 1830</u>						
REL. <u>[Signature]</u> 8-15-13 22:35 Rec: SAS 2235 8/15/13															

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 7 of 167



13-17587

CHAIN OF CUSTODY FORM

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

COC 3 of 3

Union Oil Site ID: <u>0752</u>			Union Oil Consultant: <u>ARCADIS</u>			ANALYSES REQUIRED								
Site Global ID: <u>T060010148L</u>			Consultant Contact: <u>KATHERINE BRANDT</u>			TPH - Diesel by EPA 8015	TPH - G by <u>(C6-C12)(8015)</u>	BTEX/MTBE by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXY	EDC (8260)	Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/>		
Site Address: <u>800 HANNISON ST., OAKLAND, CA</u>			Consultant Phone No.: <u>(510) 596-9675</u>									Special Instructions		
Union Oil PM: <u>TIMOTHY L. BISHOP</u>			Sampling Company: <u>(SETTLER RYAN)</u>											
Union Oil PM Phone No.: <u>(925) 790-6463</u>			Sampled By (PRINT): <u>Frank J., Mike L. & Joel</u>											
Charge Code: <u>NWRTB-0 351646-0-LAB</u>			Sampler Signature: <u>[Signature]</u>			Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911								
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.			BC Laboratories, Inc.											
SAMPLE ID				Sample Time	# of Containers	Notes / Comments								
Field Point Name	Matrix	Depth	Date (yymmdd)											
<u>-25 MP-1</u>	<u>W-S-A</u>		<u>13-8-15</u>	<u>1205</u>	<u>6</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	W-S-A													
	W-S-A													
	W-S-A													
	W-S-A													
	W-S-A													
	W-S-A													
	W-S-A													
	W-S-A													
	W-S-A													
	W-S-A													
Relinquished By <u>[Signature]</u> Company <u>GR</u> Date / Time: <u>8-15-13</u>			Relinquished By <u>[Signature]</u> Company <u>GR</u> Date / Time: <u>08-15-13 1530</u>			Relinquished By <u>[Signature]</u> Company <u>BCLAB</u> Date / Time: <u>8-15-13 1830</u>								
Received By <u>[Signature]</u> Company <u>GR</u> Date / Time: <u>08-15-13 1530</u>			Received By <u>[Signature]</u> Company <u>BCLAB</u> Date / Time: <u>8-15-13 1530</u>			Received By <u>[Signature]</u> Company <u>BCLAB</u> Date / Time: <u>8-15-13 18:30</u>								
REL. <u>[Signature]</u> 8-15-13 22:35 Rec: <u>SAS</u> 8-15-13 2235														

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Chain of Custody and Cooler Receipt Form for 1317587 Page 4 of 12

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 1 of 9 Submission #: 13-17587

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

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

COC Received: YES, NO. Emissivity: 0.97, Container: Voa, Thermometer ID: 207, Date/Time: 8.15.13 2230, Temperature: (A) 1.9, (C) 1.4, Analyst Init: SAS

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various chemical and biological tests like GENERAL MINERAL, TOX, and EPA methods.

Comments: Plate Numbering Completed By: MWL Date/Time: 8/16/13 @ 0810 Actual / C = Corrected



Chain of Custody and Cooler Receipt Form for 1317587 Page 5 of 12

LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 2 of 9 Submission #: 13-17587

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

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

COC Received: YES, NO. Emissivity: 0.97, Container: Vocs, Thermometer ID: 207, Date/Time: 8.15.13 2230, Temperature: (A) 1.4 C, (C) 1.4 C, Analyst Init: SAS

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include: GENERAL MINERAL/GENERAL PE UNPRESERVED, INORGANIC CHEMICAL METALS, CYANIDE, NITROGEN FORMS, TOTAL SULFIDE, NITRATE/NITRITE, TOTAL ORGANIC CARBON, TOX, CHEMICAL OXYGEN DEMAND, PHENOLICS, VOA VIAL TRAVEL BLANK, VOA VIAL (A 16), EPA 413.1, 413.2, 418.1, ODOR, BIOLOGICAL, TERIOLOGICAL, VOA VIAL - 500 ml/pres. (B 3), EPA 508/608/8080, PA 515.1/8150, PA 525, PA 525 TRAVEL BLANK, EPA 547, EPA 531.1, PA 548, PA 549, PA 632, PA 8015M, FIBER, JAR, SLEEVE, TUB BAG, CUS IRON, RE, T KPT, Canister.

Numbering Completed By: [Signature] Date/Time: 8/15/13 20:10



Chain of Custody and Cooler Receipt Form for 1317587 Page 6 of 12

LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 3 of 9

Submission #: 13-17587

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Leak Seals: Ice Chest, Containers, None. Intact? Yes, No.

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

COC Received: YES, NO. Emissivity: 0.97, Container: Vacu, Thermometer ID: 207, Date/Time: 8.15.13 2230, Temperature: (A) 1.9, (C) 1.4, Analyst Init: SAS

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (2-1 to 2-10). Rows include: GENERAL MINERAL/GENERAL, PE UNPRESERVED, INORGANIC CHEMICAL METALS, CYANIDE, NITROGEN FORMS, TOTAL SULFIDE, NITRATE/NITRITE, TOTAL ORGANIC CARBON, TOX, CHEMICAL OXYGEN DEMAND, PHENOLICS, VOA VIAL TRAVEL BLANK, VOA VIAL (A.6), PA 413.1, 413.2, 418.1, DOR, BIOLOGICAL, PERIOLOGICAL, VOA VIAL - unpres. (B(3)), PA 508/608/8080, PA 515.1/8150, PA 525, PA 525 TRAVEL BLANK, EPA 547, EPA 531.1, PA 548, PA 549, PA 632, PA 8015M, TUBER, JAR, GLEEVE, TUB BAG, TUBS IRON, TUB, TUB KIT, 5 Canister

Numbering Completed By: [Signature] Date/Time: 8/15/13 20:10



Chain of Custody and Cooler Receipt Form for 1317587 Page 7 of 12

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 4 of 9

Submission #: 13-17587

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received
 YES NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 8.15.13 2230
 Temperature: (A) 1.3 °C / (C) 1.4 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
GENERAL MINERAL/ GENERAL		C	C			C				
PE UNPRESERVED		D								
INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS										
CYANIDE										
NITROGEN FORMS										
TOTAL SULFIDE										
NITRATE/NITRITE										
TOTAL ORGANIC CARBON		G	D			D				
TOX										
CHEMICAL OXYGEN DEMAND										
PHENOLICS										
ml VOA VIAL TRAVEL BLANK										
ml VOA VIAL										
EPA 413.1, 413.2, 418.1										
ODOR										
DILOGICAL										
CTERIOLOGICAL										
ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
EPA 548										
EPA 549										
EPA 632										
EPA 8015M										
AMBER		EF								
JAR										
Z. JAR										
SLEEVE										
VIAL										
STIC BAG										
ROUS IRON										
ORE										
RT KIT										
ma Canister										

Comments: _____

Date Numbering Completed By: MW Date/Time: 8/16/13 @ 0810

Actual / C = Corrected



Chain of Custody and Cooler Receipt Form for 1317587 Page 8 of 12

C. LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 5 of 9

Submission #: 13-17587

Shipping Information: Federal Express, UPS, Hand Delivery, C Lab Field Service. Shipping Container: Ice Chest, None, Box, Other. Free Liquid: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

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

COC Received: YES, NO. Emissivity: 0.98. Container: 2 PE. Thermometer ID: 207. Date/Time: 8.15.13 2230. Temperature: (A) 1.6 C, (C) 1.7 C. Analyst Init: SAS.

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include: GENERAL MINERAL/ GENERAL, PE UNPRESERVED, INORGANIC CHEMICAL METALS, CYANIDE, NITROGEN FORMS, TOTAL SULFIDE, NITRATE / NITRITE, TOTAL ORGANIC CARBON, TOX, CHEMICAL OXYGEN DEMAND, PHENOLICS, VOA VIAL TRAVEL BLANK, VOA VIAL, EPA 413.1, 413.2, 418.1, ODOR, BIOLOGICAL, CTERIOLOGICAL, ml VOA VIAL- 504, EPA 508/608/8080, EPA 515.1/8150, EPA 525, EPA 525 TRAVEL BLANK, ml EPA 547, ml EPA 531.1, EPA 548, EPA 549, EPA 632, EPA 8015M, AMBER, Z. JAR, Z. JAR, L SLEEVE, VIAL, PLASTIC BAG, TROUS IRON, CORE, ART KIT, 500ml Canister.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 8/16/13 @ 0810. Actual / C = Corrected.

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Chain of Custody and Cooler Receipt Form for 1317587 Page 9 of 12

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 6 of 9 Submission #: 13-17587

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

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

COC Received: YES, NO. Emissivity: 0.98. Container: D+ PE. Thermometer ID: 207. Date/Time: 8.15.13 2230. Temperature: (A) 1.6, (C) 1.7. Analyst Init: SAS.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (A7-A20). Rows include various chemical and biological tests like GENERAL MINERAL, INORGANIC CHEMICAL METALS, TOX, etc.

Comments: Date/Time: 8/16/13 @ 0810. File Numbering Completed By: MWL. Actual / C = Corrected.

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Chain of Custody and Cooler Receipt Form for 1317587 Page 10 of 12

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 7 Of 9 Submission #: 13-17587

SHIPPING INFORMATION Federal Express UPS Hand Delivery 3C Lab Field Service Other (Specify) SHIPPING CONTAINER Ice Chest None Box Other (Specify) FREE LIQUID YES NO

Refrigerant: Ice Blue Ice None Other Comments:

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

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

COC Received YES NO Emissivity: 0.95 Container: DAmbe Thermometer ID: 207 Date/Time 8.15.13 2230 Temperature: (A) 1.3 °C (C) 1.4 °C Analyst Init SAS

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (10-19). Rows include various chemical and biological test categories.

Comments: e Numbering Completed By: MWL Date/Time: 8/16/13 @ 0810 Actual / C = Corrected



Chain of Custody and Cooler Receipt Form for 1317587 Page 11 of 12

BC LABORATORIES, INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 6 of 7

Submission #: 13-17587

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

SHIPPING CONTAINER Ice Chest [x] None [] Box [] Other [] (Specify) _____

FREE LIQUID YES [] NO []

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments: _____

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

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

COC Received YES [x] NO []

Emissivity: 0.95 Container: Amber Thermometer ID: 207

Date/Time 8.15.13 2230

Temperature: (A) 1.3 °C (C) 1.4 °C

Analyst Init SAS

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various test types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. Some cells contain 'D'.

Comments: _____ Sample Numbering Completed By: [Signature] Date/Time: 8/15/13 2230 = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1317587 Page 12 of 12

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 9 Of 9

Submission #: 13-17587

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, IC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No.

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

COC Received: YES, NO. Emissivity: 0.98. Container: QPE. Thermometer ID: 207. Date/Time: 8/15/13 2230. Temperature: (A) 1.7, (C) 1.8. Analyst Init: SAS.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various chemical and biological test categories.

Comments: Sample Numbering Completed By: MWL Date/Time: 8/16/13 0810 Actual / C = Corrected

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

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

1317587-01	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: QA-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 00:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): QA Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1317587-02	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-1-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 12:49 Sample Depth: --- Lab Matrix: Water 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:
-------------------	--	--

1317587-03	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-2-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 12:04 Sample Depth: --- Lab Matrix: Water 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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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1317587-04	COC Number:	---	Receive Date: 08/15/2013 22:35
	Project Number:	0752	Sampling Date: 08/15/2013 08:58
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-3-W-130815	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:	
1317587-05	COC Number:	---	Receive Date: 08/15/2013 22:35
	Project Number:	0752	Sampling Date: 08/15/2013 09:35
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-4-W-130815	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:	
1317587-06	COC Number:	---	Receive Date: 08/15/2013 22:35
	Project Number:	0752	Sampling Date: 08/15/2013 11:07
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-5-W-130815	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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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

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

1317587-07	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-6-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 10:14 Sample Depth: --- Lab Matrix: Water 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:
-------------------	--	--

1317587-08	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-7-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 08:05 Sample Depth: --- Lab Matrix: Water 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:
-------------------	--	--

1317587-09	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MW-8-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 07:25 Sample Depth: --- Lab Matrix: Water 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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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1317587-10	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-1-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): A-MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1317587-11	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-2-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 11:05 Sample Depth: --- Lab Matrix: Water 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:
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1317587-12	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-3-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 10:05 Sample Depth: --- Lab Matrix: Water 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:
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Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1317587-13	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-4-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 12:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): A-MW-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1317587-14	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-5-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 06:30 Sample Depth: --- Lab Matrix: Water 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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1317587-15	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-6-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 07:20 Sample Depth: --- Lab Matrix: Water 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:
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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1317587-16	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: A-MW-7-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 08:10 Sample Depth: --- Lab Matrix: Water 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:
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1317587-17	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-1-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 08:50 Sample Depth: --- Lab Matrix: Water 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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1317587-18	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-2-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 10:10 Sample Depth: --- Lab Matrix: Water 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:
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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1317587-19	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-3-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 10:50 Sample Depth: --- Lab Matrix: Water 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:
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1317587-20	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-4-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 09:05 Sample Depth: --- Lab Matrix: Water 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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1317587-21	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-5-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 12:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): S-MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1317587-22	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-MW-6-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 11:30 Sample Depth: --- Lab Matrix: Water 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:
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1317587-23	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: S-EW-1-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 08:12 Sample Depth: --- Lab Matrix: Water 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:
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1317587-24	COC Number: --- Project Number: 0752 Sampling Location: --- Sampling Point: MPE-1-W-130815 Sampled By: GRD	Receive Date: 08/15/2013 22:35 Sampling Date: 08/15/2013 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: T0600101486 Location ID (FieldPoint): MPE-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1317587-25

COC Number: ---
Project Number: 0752
Sampling Location: ---
Sampling Point: MP-1-W-130815
Sampled By: GRD

Receive Date: 08/15/2013 22:35
Sampling Date: 08/15/2013 12:05
Sample Depth: ---
Lab Matrix: Water
Sample Type: Water
Delivery Work Order:
Global ID: T0600101486
Location ID (FieldPoint): MP-1
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-01	Client Sample Name: 0752, QA-W-130815, 8/15/2013 12:00:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	94.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/19/13	11:03	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-01	Client Sample Name: 0752, QA-W-130815, 8/15/2013 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)	103	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/23/13 01:52	jjh	GC-V9	1	BWH1804

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-02	Client Sample Name: 0752, MW-1-W-130815, 8/15/2013 12:49:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	86.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/19/13	11:20	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

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

BCL Sample ID: 1317587-02	Client Sample Name: 0752, MW-1-W-130815, 8/15/2013 12:49:00PM
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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
Benidine	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: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

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

BCL Sample ID: 1317587-02	Client Sample Name: 0752, MW-1-W-130815, 8/15/2013 12:49:00PM
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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: 1317587-02	Client Sample Name: 0752, MW-1-W-130815, 8/15/2013 12:49:00PM
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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)	42.7	%	30 - 120 (LCL - UCL)	EPA-8270C			1
Phenol-d5 (Surrogate)	30.4	%	12 - 110 (LCL - UCL)	EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	65.5	%	60 - 130 (LCL - UCL)	EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	77.1	%	55 - 125 (LCL - UCL)	EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	80.2	%	40 - 150 (LCL - UCL)	EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	75.4	%	40 - 150 (LCL - UCL)	EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	08/21/13	08/27/13 15:21	SKC	MS-B2	1	BWH2165

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-02	Client Sample Name: 0752, MW-1-W-130815, 8/15/2013 12:49:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	107	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/23/13 06:57	jjh	GC-V9	1	BWH1804



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-02	Client Sample Name: 0752, MW-1-W-130815, 8/15/2013 12:49:00PM
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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	08/22/13	08/22/13 09:06	EAR	GC-V1	1	BWH1667



Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-02	Client Sample Name: 0752, MW-1-W-130815, 8/15/2013 12:49:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	45	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	1.9	mg/L	0.44	EPA-300.0	ND		2
Sulfate	12	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	08/21/13	08/21/13 10:54	RML	MET-1	1	BWH1658
2	EPA-300.0	08/16/13	08/16/13 20:08	LS1	IC5	1	BWH1408
3	EPA-353.2	08/16/13	08/16/13 11:46	TDC	KONE-1	1	BWH1341
4	EPA-415.1	08/27/13	08/27/13 14:35	CDR	TOC2	1	BWH1608



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-02	Client Sample Name: 0752, MW-1-W-130815, 8/15/2013 12:49:00PM
----------------------------------	--

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	52	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	08/16/13	08/20/13 13:33	ARD	PE-OP2	1	BWH1539

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-03	Client Sample Name: 0752, MW-2-W-130815, 8/15/2013 12:04:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
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)	89.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/19/13	11:38	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-03	Client Sample Name: 0752, MW-2-W-130815, 8/15/2013 12:04:00PM
----------------------------------	--

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)	109	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/23/13 07:17	jjh	GC-V9	1	BWH1804

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-03	Client Sample Name: 0752, MW-2-W-130815, 8/15/2013 12:04:00PM
----------------------------------	--

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	08/22/13	08/22/13 09:10	EAR	GC-V1	1	BWH1667



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-03	Client Sample Name: 0752, MW-2-W-130815, 8/15/2013 12:04:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	68	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	10	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	0.88	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	08/21/13	08/21/13 11:06	RML	MET-1	1	BWH1658
2	EPA-300.0	08/16/13	08/16/13 20:23	LS1	IC5	1	BWH1408
3	EPA-353.2	08/16/13	08/16/13 11:46	TDC	KONE-1	1	BWH1341
4	EPA-415.1	08/27/13	08/27/13 15:30	CDR	TOC2	1	BWH1608



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-03	Client Sample Name: 0752, MW-2-W-130815, 8/15/2013 12:04:00PM
----------------------------------	--

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	08/16/13	08/20/13 13:35	ARD	PE-OP2	1	BWH1539

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-04	Client Sample Name: 0752, MW-3-W-130815, 8/15/2013 8:58:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	4.0	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	1.4	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	340	ug/L	2.5	EPA-8260B	ND	A01	2
Toluene	ND	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260B	ND		1
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)	94.9	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	95.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	85.1	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	114	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/19/13	08/19/13 11:56	EAR	MS-V12	1	BWH1433
2	EPA-8260B	08/20/13	08/20/13 19:37	EAR	MS-V12	5	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-04	Client Sample Name: 0752, MW-3-W-130815, 8/15/2013 8:58:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	410	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	130	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 09:39	jjh	GC-V9	1	BWH1804

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-04	Client Sample Name: 0752, MW-3-W-130815, 8/15/2013 8:58:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	1.6	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	08/22/13	08/22/13 10:19	EAR	GC-V1	5	BWH1667

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-04	Client Sample Name: 0752, MW-3-W-130815, 8/15/2013 8:58:00AM						
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	11	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	3.7	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	08/21/13	08/21/13 11:12	RML	MET-1	1	BWH1658
2	EPA-300.0	08/16/13	08/16/13 21:10	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:46	TDC	KONE-1	1	BWH1341
4	EPA-415.1	08/27/13	08/27/13 15:44	CDR	TOC2	1	BWH1608

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-04	Client Sample Name: 0752, MW-3-W-130815, 8/15/2013 8:58:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	4200	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 15:19	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-05	Client Sample Name: 0752, MW-4-W-130815, 8/15/2013 9:35:00AM
----------------------------------	---

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)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	88.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/19/13	08/19/13 12:13	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-05	Client Sample Name: 0752, MW-4-W-130815, 8/15/2013 9:35:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	107	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 10:00	jjh	GC-V9	1	BWH1804



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-05	Client Sample Name: 0752, MW-4-W-130815, 8/15/2013 9:35:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	0.0017	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	08/22/13	08/22/13 09:31	EAR	GC-V1	1	BWH1667



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-05	Client Sample Name: 0752, MW-4-W-130815, 8/15/2013 9:35:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	68	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	2.2	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	1.2	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	08/21/13	08/21/13 11:18	RML	MET-1	1	BWH1658
2	EPA-300.0	08/16/13	08/16/13 21:25	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:46	TDC	KONE-1	1	BWH1341
4	EPA-415.1	08/27/13	08/27/13 15:59	CDR	TOC2	1	BWH1608



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

Metals Analysis

BCL Sample ID: 1317587-05	Client Sample Name: 0752, MW-4-W-130815, 8/15/2013 9:35:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	61	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 15:28	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-06	Client Sample Name: 0752, MW-5-W-130815, 8/15/2013 11:07:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	24	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	2.0	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	6.7	ug/L	0.50	EPA-8260B	ND		1
Toluene	6.1	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	9.2	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	94.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	112	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/19/13	08/19/13 12:31	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-06	Client Sample Name: 0752, MW-5-W-130815, 8/15/2013 11:07:00AM
----------------------------------	--

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)	106	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 10:20	jjh	GC-V9	1	BWH1804

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-06	Client Sample Name: 0752, MW-5-W-130815, 8/15/2013 11:07:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	0.0040	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	08/22/13	08/22/13 09:35	EAR	GC-V1	1	BWH1667

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-06	Client Sample Name: 0752, MW-5-W-130815, 8/15/2013 11:07:00AM
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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	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	7.4	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	2.9	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	08/21/13	08/21/13 11:24	RML	MET-1	1	BWH1658
2	EPA-300.0	08/16/13	08/16/13 21:40	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:46	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/27/13 16:40	CDR	TOC2	1	BWH1608



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-06	Client Sample Name: 0752, MW-5-W-130815, 8/15/2013 11:07:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	580	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 15:29	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-07	Client Sample Name: 0752, MW-6-W-130815, 8/15/2013 10:14:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	0.82	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)	90.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/19/13	12:49	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-07	Client Sample Name: 0752, MW-6-W-130815, 8/15/2013 10:14:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 10:40	jjh	GC-V9	1	BWH1804

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

Gas Testing in Water

BCL Sample ID: 1317587-07	Client Sample Name: 0752, MW-6-W-130815, 8/15/2013 10:14:00AM
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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	08/22/13	08/22/13 09:38	EAR	GC-V1	1	BWH1667

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-07	Client Sample Name: 0752, MW-6-W-130815, 8/15/2013 10:14:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	110	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	0.71	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	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	08/21/13	08/21/13 11:30	RML	MET-1	1	BWH1658
2	EPA-300.0	08/16/13	08/16/13 21:56	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:50	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/27/13 16:55	CDR	TOC2	1	BWH1608



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-07	Client Sample Name: 0752, MW-6-W-130815, 8/15/2013 10:14:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	100	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 15:31	ARD	PE-OP2	1	BWH1540

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-08	Client Sample Name: 0752, MW-7-W-130815, 8/15/2013 8:05:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	11	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	5.0	ug/L	0.50	EPA-8260B	ND		1
Toluene	1.3	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	1.2	ug/L	1.0	EPA-8260B	ND		1
Ethanol	ND	ug/L	250	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	90.9	%	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	08/19/13	08/19/13 13:07	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-08	Client Sample Name: 0752, MW-7-W-130815, 8/15/2013 8:05:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	95	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	112	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 11:00	jjh	GC-V9	1	BWH1804

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-08	Client Sample Name: 0752, MW-7-W-130815, 8/15/2013 8:05:00AM
----------------------------------	---

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	08/22/13	08/22/13 09:43	EAR	GC-V1	1	BWH1667



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-08	Client Sample Name: 0752, MW-7-W-130815, 8/15/2013 8:05:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	100	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	17	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	08/19/13	08/19/13 23:48	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/16/13 22:11	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:50	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/27/13 17:09	CDR	TOC2	1	BWH1608

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-08	Client Sample Name: 0752, MW-7-W-130815, 8/15/2013 8:05:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	260	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 15:32	ARD	PE-OP2	1	BWH1540

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-09	Client Sample Name: 0752, MW-8-W-130815, 8/15/2013 7:25:00AM
----------------------------------	---

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	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)	90.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/19/13	13:25	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-09	Client Sample Name: 0752, MW-8-W-130815, 8/15/2013 7:25:00AM
----------------------------------	---

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)	112	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 11:20	jjh	GC-V9	1	BWH1804



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-09	Client Sample Name: 0752, MW-8-W-130815, 8/15/2013 7:25:00AM
----------------------------------	---

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	08/22/13	08/22/13 09:47	EAR	GC-V1	1	BWH1667



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-09	Client Sample Name: 0752, MW-8-W-130815, 8/15/2013 7:25:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	98	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	1.0	mg/L	0.44	EPA-300.0	ND		2
Sulfate	17	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	1.9	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	08/19/13	08/20/13 00:01	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/16/13 22:27	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:50	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/27/13 17:23	CDR	TOC2	1	BWH1608



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-09	Client Sample Name: 0752, MW-8-W-130815, 8/15/2013 7:25:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	71	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:26	ARD	PE-OP2	1	BWH1540

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-10	Client Sample Name: 0752, A-MW-1-W-130815, 8/15/2013 12:00:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	840	ug/L	12	EPA-8260B	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0	EPA-8260B	ND	A01	2
1,2-Dichloroethane	ND	ug/L	5.0	EPA-8260B	ND	A01	2
Ethylbenzene	93	ug/L	5.0	EPA-8260B	ND	A01	2
Methyl t-butyl ether	790	ug/L	5.0	EPA-8260B	ND	A01	2
Toluene	100	ug/L	5.0	EPA-8260B	ND	A01	2
Total Xylenes	160	ug/L	10	EPA-8260B	ND	A01	2
Ethanol	ND	ug/L	2500	EPA-8260B	ND	A01	2
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	94.1	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	98.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.7	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/20/13	08/21/13 14:31	EAR	MS-V12	25	BWH1433
2	EPA-8260B	08/19/13	08/19/13 23:55	EAR	MS-V12	10	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-10	Client Sample Name: 0752, A-MW-1-W-130815, 8/15/2013 12:00:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	5800	ug/L	500	EPA-8015B	ND	A01	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	08/22/13	08/26/13 16:14	jjh	GC-V9	10	BWH1804

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-10	Client Sample Name: 0752, A-MW-1-W-130815, 8/15/2013 12:00:00PM
----------------------------------	--

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	08/22/13	08/22/13 09:50	EAR	GC-V1	1	BWH1667



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-10	Client Sample Name: 0752, A-MW-1-W-130815, 8/15/2013 12:00:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	430	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	34	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	12	mg/L	1.5	EPA-415.1	ND	A01	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	08/19/13	08/20/13 00:07	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/16/13 22:42	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:50	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/28/13 12:04	CDR	TOC2	5	BWH1608



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-10	Client Sample Name: 0752, A-MW-1-W-130815, 8/15/2013 12:00:00PM
----------------------------------	--

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	08/16/13	08/20/13 16:27	ARD	PE-OP2	1	BWH1540



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

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-11	Client Sample Name: 0752, A-MW-2-W-130815, 8/15/2013 11:05:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	1200	ug/L	50	EPA-8260B	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0	EPA-8260B	ND	A01	2
1,2-Dichloroethane	ND	ug/L	5.0	EPA-8260B	ND	A01	2
Ethylbenzene	820	ug/L	50	EPA-8260B	ND	A01	1
Methyl t-butyl ether	1700	ug/L	50	EPA-8260B	ND	A01	1
Toluene	5600	ug/L	50	EPA-8260B	ND	A01	1
Total Xylenes	4400	ug/L	100	EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	2500	EPA-8260B	ND	A01	2
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	95.5	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	99.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/20/13	08/21/13 14:48	EAR	MS-V12	100	BWH1433
2	EPA-8260B	08/19/13	08/20/13 00:13	EAR	MS-V12	10	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-11	Client Sample Name: 0752, A-MW-2-W-130815, 8/15/2013 11:05:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	1500	ug/L	500	EPA-8015B	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	116	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/27/13 15:00	jjh	GC-V9	10	BWH1805

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

Gas Testing in Water

BCL Sample ID: 1317587-11	Client Sample Name: 0752, A-MW-2-W-130815, 8/15/2013 11:05:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	3.3	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	08/22/13	08/22/13 10:34	EAR	GC-V1	10	BWH1667



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-11	Client Sample Name: 0752, A-MW-2-W-130815, 8/15/2013 11:05:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	520	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	ND	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	24	mg/L	6.0	EPA-415.1	ND	A01	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	08/19/13	08/20/13 00:15	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/16/13 22:57	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:57	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/28/13 15:07	CDR	TOC2	20	BWH1608

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

Metals Analysis

BCL Sample ID: 1317587-11	Client Sample Name: 0752, A-MW-2-W-130815, 8/15/2013 11:05:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	7800	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:29	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-12	Client Sample Name: 0752, A-MW-3-W-130815, 8/15/2013 10:05:00AM
----------------------------------	--

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)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	87.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/19/13	08/20/13 19:55	EAR	MS-V12	1	BWH1433



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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-12	Client Sample Name: 0752, A-MW-3-W-130815, 8/15/2013 10:05:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	86	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	110	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 12:20	jjh	GC-V9	1	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-12	Client Sample Name: 0752, A-MW-3-W-130815, 8/15/2013 10:05:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	0.0036	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	08/22/13	08/22/13 09:59	EAR	GC-V1	1	BWH1668

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-12	Client Sample Name: 0752, A-MW-3-W-130815, 8/15/2013 10:05:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	120	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	34	mg/L	0.44	EPA-300.0	ND		2
Sulfate	44	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	1.4	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	08/19/13	08/20/13 00:24	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/16/13 23:13	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:57	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/27/13 18:33	CDR	TOC2	1	BWH1609

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-12	Client Sample Name: 0752, A-MW-3-W-130815, 8/15/2013 10:05:00AM
----------------------------------	--

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	08/16/13	08/20/13 16:31	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-13	Client Sample Name: 0752, A-MW-4-W-130815, 8/15/2013 12:45:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	620	ug/L	12	EPA-8260B	ND	A01	1
1,2-Dibromoethane	ND	ug/L	2.5	EPA-8260B	ND	A01	2
1,2-Dichloroethane	ND	ug/L	2.5	EPA-8260B	ND	A01	2
Ethylbenzene	62	ug/L	2.5	EPA-8260B	ND	A01	2
Methyl t-butyl ether	1200	ug/L	12	EPA-8260B	ND	A01	1
Toluene	38	ug/L	2.5	EPA-8260B	ND	A01	2
Total Xylenes	67	ug/L	5.0	EPA-8260B	ND	A01	2
Ethanol	ND	ug/L	1200	EPA-8260B	ND	A01	2
1,2-Dichloroethane-d4 (Surrogate)	98.8	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	91.9	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/20/13	08/21/13 15:06	EAR	MS-V12	25	BWH1433
2	EPA-8260B	08/19/13	08/20/13 00:49	EAR	MS-V12	5	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-13	Client Sample Name: 0752, A-MW-4-W-130815, 8/15/2013 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	1100	ug/L	500	EPA-8015B	ND	A01	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	08/22/13	08/26/13 16:54	jjh	GC-V9	10	BWH1805

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

Gas Testing in Water

BCL Sample ID: 1317587-13	Client Sample Name: 0752, A-MW-4-W-130815, 8/15/2013 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	0.45	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	08/22/13	08/22/13 10:37	EAR	GC-V1	1	BWH1668



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-13	Client Sample Name: 0752, A-MW-4-W-130815, 8/15/2013 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	510	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	4.0	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	15	mg/L	1.5	EPA-415.1	ND	A01	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	08/19/13	08/20/13 00:31	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/16/13 23:28	LS1	IC5	1	BWH1409
3	EPA-353.2	08/16/13	08/16/13 11:57	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/28/13 12:31	CDR	TOC2	5	BWH1609



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-13	Client Sample Name: 0752, A-MW-4-W-130815, 8/15/2013 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	3300	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:32	ARD	PE-OP2	1	BWH1540

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-14	Client Sample Name: 0752, A-MW-5-W-130815, 8/15/2013 6:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	0.72	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)	95.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/20/13	01:06	EAR	MS-V12	1	BWH1433

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-14	Client Sample Name: 0752, A-MW-5-W-130815, 8/15/2013 6:30:00AM
----------------------------------	---

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)	104	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 14:41	jjh	GC-V9	1	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-14	Client Sample Name: 0752, A-MW-5-W-130815, 8/15/2013 6:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	0.0010	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	08/22/13	08/22/13 10:41	EAR	GC-V1	1	BWH1668



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-14	Client Sample Name: 0752, A-MW-5-W-130815, 8/15/2013 6:30:00AM
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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	19	mg/L	0.44	EPA-300.0	ND		2
Sulfate	51	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	2.6	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	08/19/13	08/20/13 00:40	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/17/13 00:14	LS1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 11:57	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/27/13 20:11	CDR	TOC2	1	BWH1609



Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-14	Client Sample Name: 0752, A-MW-5-W-130815, 8/15/2013 6:30:00AM
----------------------------------	---

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	08/16/13	08/20/13 16:34	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-15	Client Sample Name: 0752, A-MW-6-W-130815, 8/15/2013 7:20:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	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)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	93.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/20/13	01:24	EAR	MS-V12	1	BWH1433



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-15	Client Sample Name: 0752, A-MW-6-W-130815, 8/15/2013 7:20:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	108	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 15:02	jjh	GC-V9	1	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-15	Client Sample Name: 0752, A-MW-6-W-130815, 8/15/2013 7:20:00AM
----------------------------------	---

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	08/22/13	08/22/13 11:44	EAR	GC-V1	1	BWH1668



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-15	Client Sample Name: 0752, A-MW-6-W-130815, 8/15/2013 7:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	180	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	62	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	08/19/13	08/20/13 00:46	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/17/13 00:30	LS1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 11:57	TDC	KONE-1	1	BWH1342
4	EPA-415.1	08/27/13	08/27/13 20:25	CDR	TOC2	1	BWH1609

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-15	Client Sample Name: 0752, A-MW-6-W-130815, 8/15/2013 7:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	120	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:36	ARD	PE-OP2	1	BWH1540

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-16	Client Sample Name: 0752, A-MW-7-W-130815, 8/15/2013 8:10:00AM
----------------------------------	---

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)	99.5	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	94.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/20/13	01:42	EAR	MS-V12	1	BWH1637



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-16	Client Sample Name: 0752, A-MW-7-W-130815, 8/15/2013 8:10:00AM
----------------------------------	---

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)	106	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 15:22	jjh	GC-V9	1	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-16	Client Sample Name: 0752, A-MW-7-W-130815, 8/15/2013 8:10:00AM
----------------------------------	---

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	08/22/13	08/22/13 11:22	EAR	GC-V1	1	BWH1668



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-16	Client Sample Name: 0752, A-MW-7-W-130815, 8/15/2013 8:10:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	250	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	58	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	4.4	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	08/19/13	08/20/13 00:53	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/17/13 00:45	LD1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 11:57	TDC	KONE-1	1	BWH1343
4	EPA-415.1	08/27/13	08/27/13 20:40	CDR	TOC2	1	BWH1609



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-16	Client Sample Name: 0752, A-MW-7-W-130815, 8/15/2013 8:10:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	340	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:44	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-17	Client Sample Name: 0752, S-MW-1-W-130815, 8/15/2013 8:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	820	ug/L	50	EPA-8260B	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0	EPA-8260B	ND	A01	2
1,2-Dichloroethane	ND	ug/L	5.0	EPA-8260B	ND	A01	2
Ethylbenzene	65	ug/L	5.0	EPA-8260B	ND	A01	2
Methyl t-butyl ether	7300	ug/L	50	EPA-8260B	ND	A01	1
Toluene	50	ug/L	5.0	EPA-8260B	ND	A01	2
Total Xylenes	99	ug/L	10	EPA-8260B	ND	A01	2
Ethanol	ND	ug/L	2500	EPA-8260B	ND	A01	2
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	94.9	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/20/13	08/21/13	15:24	EAR	MS-V12	100	BWH1637
2	EPA-8260B	08/19/13	08/20/13	02:00	EAR	MS-V12	10	BWH1637



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-17	Client Sample Name: 0752, S-MW-1-W-130815, 8/15/2013 8:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	7200	ug/L	1000	EPA-8015B	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	97.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/26/13 17:14	jjh	GC-V9	20	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-17	Client Sample Name: 0752, S-MW-1-W-130815, 8/15/2013 8:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	1.7	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	08/22/13	08/22/13 11:52	EAR	GC-V1	5	BWH1668



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-17	Client Sample Name: 0752, S-MW-1-W-130815, 8/15/2013 8:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	430	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	ND	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	29	mg/L	3.0	EPA-415.1	ND	A01	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	08/19/13	08/20/13 01:00	RML	MET-1	1	BWH1521
2	EPA-300.0	08/16/13	08/17/13 01:01	LD1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 11:58	TDC	KONE-1	1	BWH1343
4	EPA-415.1	08/27/13	08/28/13 12:45	CDR	TOC2	10	BWH1609

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-17	Client Sample Name: 0752, S-MW-1-W-130815, 8/15/2013 8:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	3500	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:46	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-18	Client Sample Name: 0752, S-MW-2-W-130815, 8/15/2013 10:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	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)	102	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	92.5	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/19/13	08/20/13 02:18	EAR	MS-V12	1	BWH1637



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-18	Client Sample Name: 0752, S-MW-2-W-130815, 8/15/2013 10:10:00AM
----------------------------------	--

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)	110	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 16:02	jjh	GC-V9	1	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-18	Client Sample Name: 0752, S-MW-2-W-130815, 8/15/2013 10:10:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	0.0021	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	08/22/13	08/22/13 10:57	EAR	GC-V1	1	BWH1668

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-18	Client Sample Name: 0752, S-MW-2-W-130815, 8/15/2013 10:10:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	97	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	62	mg/L	0.44	EPA-300.0	ND		2
Sulfate	32	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	2.6	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	08/20/13	08/20/13 11:06	RML	MET-1	1	BWH1561
2	EPA-300.0	08/16/13	08/17/13 01:16	LD1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 11:58	TDC	KONE-1	1	BWH1343
4	EPA-415.1	08/27/13	08/27/13 21:08	CDR	TOC2	1	BWH1609



Arcadis
2000 Powell Street 7th Floor
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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-18	Client Sample Name: 0752, S-MW-2-W-130815, 8/15/2013 10:10:00AM
----------------------------------	--

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	08/16/13	08/20/13 16:48	ARD	PE-OP2	1	BWH1540

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-19	Client Sample Name: 0752, S-MW-3-W-130815, 8/15/2013 10:50:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	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)	104	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	92.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/19/13	08/20/13 02:36	EAR	MS-V12	1	BWH1637

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-19	Client Sample Name: 0752, S-MW-3-W-130815, 8/15/2013 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)	107	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 16:22	jjh	GC-V9	1	BWH1805

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

Gas Testing in Water

BCL Sample ID: 1317587-19	Client Sample Name: 0752, S-MW-3-W-130815, 8/15/2013 10:50:00AM
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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	08/22/13	08/22/13 11:02	EAR	GC-V1	1	BWH1668



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-19	Client Sample Name: 0752, S-MW-3-W-130815, 8/15/2013 10:50:00AM
----------------------------------	--

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	19	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	1.9	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	08/20/13	08/20/13 11:12	RML	MET-1	1	BWH1561
2	EPA-300.0	08/16/13	08/17/13 01:31	LD1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 11:58	TDC	KONE-1	1	BWH1343
4	EPA-415.1	08/27/13	08/27/13 21:22	CDR	TOC2	1	BWH1609

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

Metals Analysis

BCL Sample ID: 1317587-19	Client Sample Name: 0752, S-MW-3-W-130815, 8/15/2013 10:50:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	110	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:49	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-20	Client Sample Name: 0752, S-MW-4-W-130815, 8/15/2013 9:05:00AM
----------------------------------	---

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	25	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)	93.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/20/13	02:54	EAR	MS-V12	1	BWH1637



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-20	Client Sample Name: 0752, S-MW-4-W-130815, 8/15/2013 9:05:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	98	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	120	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 16:42	jjh	GC-V9	1	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-20	Client Sample Name: 0752, S-MW-4-W-130815, 8/15/2013 9:05:00AM
----------------------------------	---

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	08/22/13	08/22/13 11:06	EAR	GC-V1	1	BWH1668



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-20	Client Sample Name: 0752, S-MW-4-W-130815, 8/15/2013 9:05:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	290	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.44	EPA-300.0	ND		2
Sulfate	15	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	3.9	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	08/20/13	08/20/13 11:18	RML	MET-1	1	BWH1561
2	EPA-300.0	08/16/13	08/17/13 01:47	LD1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 12:01	TDC	KONE-1	1	BWH1343
4	EPA-415.1	08/27/13	08/27/13 21:37	CDR	TOC2	1	BWH1609



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-20	Client Sample Name: 0752, S-MW-4-W-130815, 8/15/2013 9:05:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	1300	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:51	ARD	PE-OP2	1	BWH1540



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-21	Client Sample Name: 0752, S-MW-5-W-130815, 8/15/2013 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	1900	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	390	ug/L	12	EPA-8260B	ND	A01	1
Methyl t-butyl ether	20000	ug/L	250	EPA-8260B	ND	A01	3
Toluene	590	ug/L	12	EPA-8260B	ND	A01	1
Total Xylenes	1100	ug/L	25	EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	250	EPA-8260B	ND		2
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)	EPA-8260B			2
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)	EPA-8260B			3
Toluene-d8 (Surrogate)	95.8	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)	EPA-8260B			3
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	82.7	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)	EPA-8260B			3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-8260B	08/20/13	08/21/13 15:41	EAR	MS-V12	25	BWH1637	
2	EPA-8260B	08/19/13	08/20/13 03:12	EAR	MS-V12	1	BWH1637	
3	EPA-8260B	08/22/13	08/22/13 11:01	EAR	MS-V12	500	BWH1637	



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Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-21	Client Sample Name: 0752, S-MW-5-W-130815, 8/15/2013 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	8000	ug/L	2500	EPA-8015B	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	96.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/26/13 17:34	jjh	GC-V9	50	BWH1805

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

Gas Testing in Water

BCL Sample ID: 1317587-21	Client Sample Name: 0752, S-MW-5-W-130815, 8/15/2013 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	2.2	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	08/22/13	08/22/13 11:57	EAR	GC-V1	5	BWH1668

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-21	Client Sample Name: 0752, S-MW-5-W-130815, 8/15/2013 12:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	670	mg/L	8.2	EPA-310.1	ND		1
Nitrate as NO3	ND	mg/L	0.88	EPA-300.0	ND	A01	2
Sulfate	ND	mg/L	1.0	EPA-300.0	ND		3
Nitrite as NO2	ND	mg/L	0.17	EPA-353.2	ND		4
Non-Volatile Organic Carbon	28	mg/L	3.0	EPA-415.1	ND	A01	5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	08/20/13	08/20/13 11:25	RML	MET-1	2	BWH1561
2	EPA-300.0	08/16/13	08/17/13 02:02	LD1	IC5	2	BWH1410
3	EPA-300.0	08/16/13	08/17/13 13:42	LD1	IC5	1	BWH1410
4	EPA-353.2	08/16/13	08/16/13 12:01	TDC	KONE-1	1	BWH1343
5	EPA-415.1	08/27/13	08/28/13 13:00	CDR	TOC2	10	BWH1609

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-21	Client Sample Name: 0752, S-MW-5-W-130815, 8/15/2013 12:45:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	7300	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:53	ARD	PE-OP2	1	BWH1540

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-22	Client Sample Name: 0752, S-MW-6-W-130815, 8/15/2013 11:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	0.79	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	1000	ug/L	12	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)	101	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.0	%	80 - 120 (LCL - UCL)	EPA-8260B			2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/19/13	08/20/13 20:12	EAR	MS-V12	1	BWH1637
2	EPA-8260B	08/22/13	08/22/13 11:19	EAR	MS-V12	25	BWH1637



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-22	Client Sample Name: 0752, S-MW-6-W-130815, 8/15/2013 11:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	58	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	08/22/13	08/24/13 17:23	jjh	GC-V9	1	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Gas Testing in Water

BCL Sample ID: 1317587-22	Client Sample Name: 0752, S-MW-6-W-130815, 8/15/2013 11:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Methane	0.0051	mg/L	0.0010	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	08/22/13	08/22/13 12:03	EAR	GC-V1	1	BWH1801



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-22	Client Sample Name: 0752, S-MW-6-W-130815, 8/15/2013 11:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Alkalinity as CaCO3	180	mg/L	4.1	EPA-310.1	ND		1
Nitrate as NO3	6.3	mg/L	0.44	EPA-300.0	ND		2
Sulfate	26	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	7.4	mg/L	0.60	EPA-415.1	ND	A01	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-310.1	08/20/13	08/20/13 11:32	RML	MET-1	1	BWH1561
2	EPA-300.0	08/16/13	08/17/13 02:18	LD1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 12:01	TDC	KONE-1	1	BWH1343
4	EPA-415.1	08/27/13	08/28/13 14:52	CDR	TOC2	2	BWH1610



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-22	Client Sample Name: 0752, S-MW-6-W-130815, 8/15/2013 11:30:00AM
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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	08/16/13	08/20/13 16:54	ARD	PE-OP2	1	BWH1540



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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-23	Client Sample Name: 0752, S-EW-1-W-130815, 8/15/2013 8:12:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	67	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	1.3	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	57	ug/L	0.50	EPA-8260B	ND		1
Toluene	1.7	ug/L	0.50	EPA-8260B	ND		1
Total Xylenes	3.3	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)	93.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	106	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	08/19/13	08/20/13 03:47	EAR	MS-V12	1	BWH1637



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Project: 0752
Project Number: 351646
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-23	Client Sample Name: 0752, S-EW-1-W-130815, 8/15/2013 8:12:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	290	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	110	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	08/22/13	08/24/13 17:43	jjh	GC-V9	1	BWH1805

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Project Number: 351646
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Gas Testing in Water

BCL Sample ID: 1317587-23	Client Sample Name: 0752, S-EW-1-W-130815, 8/15/2013 8:12:00AM
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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	08/22/13	08/22/13 12:12	EAR	GC-V1	1	BWH1801



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Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

BCL Sample ID: 1317587-23	Client Sample Name: 0752, S-EW-1-W-130815, 8/15/2013 8:12:00AM
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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	1.1	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	2.5	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	08/20/13	08/20/13 11:38	RML	MET-1	1	BWH1561
2	EPA-300.0	08/16/13	08/17/13 02:33	LD1	IC5	1	BWH1410
3	EPA-353.2	08/16/13	08/16/13 12:01	TDC	KONE-1	1	BWH1343
4	EPA-415.1	08/27/13	08/27/13 23:58	CDR	TOC2	1	BWH1610



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Project Number: 351646
Project Manager: Kathy Brandt

Metals Analysis

BCL Sample ID: 1317587-23	Client Sample Name: 0752, S-EW-1-W-130815, 8/15/2013 8:12:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Iron	1300	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/16/13	08/20/13 16:58	ARD	PE-OP2	1	BWH1540

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

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-24	Client Sample Name: 0752, MPE-1-W-130815, 8/15/2013 9:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	110	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	17	ug/L	0.50	EPA-8260B	ND		2
Methyl t-butyl ether	610	ug/L	5.0	EPA-8260B	ND	A01	3
Toluene	23	ug/L	0.50	EPA-8260B	ND		2
Total Xylenes	45	ug/L	1.0	EPA-8260B	ND		2
Ethanol	ND	ug/L	250	EPA-8260B	ND		2
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	75 - 125 (LCL - UCL)	EPA-8260B			2
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)	EPA-8260B			3
Toluene-d8 (Surrogate)	93.9	%	80 - 120 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)	EPA-8260B			2
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)	EPA-8260B			3
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)	EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	97.9	%	80 - 120 (LCL - UCL)	EPA-8260B			3

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-8260B	08/20/13	08/21/13 15:59	EAR	MS-V12	5	BWH1637
2	EPA-8260B	08/19/13	08/20/13 04:05	EAR	MS-V12	1	BWH1637
3	EPA-8260B	08/22/13	08/22/13 10:26	EAR	MS-V12	10	BWH1637

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-24	Client Sample Name: 0752, MPE-1-W-130815, 8/15/2013 9:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	820	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	08/22/13	08/24/13 19:46	jjh	GC-V9	1	BWH1805

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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1317587-25	Client Sample Name: 0752, MP-1-W-130815, 8/15/2013 12:05:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260B	ND		1
Methyl t-butyl ether	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)	104	%	75 - 125 (LCL - UCL)	EPA-8260B			1
Toluene-d8 (Surrogate)	94.6	%	80 - 120 (LCL - UCL)	EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)	EPA-8260B			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	08/19/13	08/20/13	04:23	EAR	MS-V12	1	BWH1637



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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1317587-25	Client Sample Name: 0752, MP-1-W-130815, 8/15/2013 12:05:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	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	08/22/13	08/24/13 20:06	jjh	GC-V9	1	BWH1805

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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
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QC Batch ID: BWH1433

Benzene	BWH1433-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BWH1433-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BWH1433-BLK1	ND	ug/L	0.50		
Ethylbenzene	BWH1433-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BWH1433-BLK1	ND	ug/L	0.50		
Toluene	BWH1433-BLK1	ND	ug/L	0.50		
Total Xylenes	BWH1433-BLK1	ND	ug/L	1.0		
Ethanol	BWH1433-BLK1	ND	ug/L	250		
1,2-Dichloroethane-d4 (Surrogate)	BWH1433-BLK1	102	%		75 - 125 (LCL - UCL)	
Toluene-d8 (Surrogate)	BWH1433-BLK1	99.9	%		80 - 120 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BWH1433-BLK1	101	%		80 - 120 (LCL - UCL)	

QC Batch ID: BWH1637

Benzene	BWH1637-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BWH1637-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BWH1637-BLK1	ND	ug/L	0.50		
Ethylbenzene	BWH1637-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BWH1637-BLK1	ND	ug/L	0.50		
Toluene	BWH1637-BLK1	ND	ug/L	0.50		
Total Xylenes	BWH1637-BLK1	ND	ug/L	1.0		
Ethanol	BWH1637-BLK1	ND	ug/L	250		
1,2-Dichloroethane-d4 (Surrogate)	BWH1637-BLK1	102	%		75 - 125 (LCL - UCL)	
Toluene-d8 (Surrogate)	BWH1637-BLK1	97.8	%		80 - 120 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BWH1637-BLK1	101	%		80 - 120 (LCL - UCL)	



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BWH1433										
Benzene	BWH1433-BS1	LCS	28.860	25.000	ug/L	115		70 - 130		
Toluene	BWH1433-BS1	LCS	27.470	25.000	ug/L	110		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BWH1433-BS1	LCS	9.9900	10.000	ug/L	99.9		75 - 125		
Toluene-d8 (Surrogate)	BWH1433-BS1	LCS	9.7900	10.000	ug/L	97.9		80 - 120		
4-Bromofluorobenzene (Surrogate)	BWH1433-BS1	LCS	10.140	10.000	ug/L	101		80 - 120		
QC Batch ID: BWH1637										
Benzene	BWH1637-BS1	LCS	25.010	25.000	ug/L	100		70 - 130		
Toluene	BWH1637-BS1	LCS	23.760	25.000	ug/L	95.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BWH1637-BS1	LCS	9.8700	10.000	ug/L	98.7		75 - 125		
Toluene-d8 (Surrogate)	BWH1637-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120		
4-Bromofluorobenzene (Surrogate)	BWH1637-BS1	LCS	10.240	10.000	ug/L	102		80 - 120		



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab
								RPD	Percent Recovery	
QC Batch ID: BWH1433		Used client sample: N								
Benzene	MS	1316295-10	ND	25.870	25.000	ug/L		103		70 - 130
	MSD	1316295-10	ND	27.170	25.000	ug/L	4.9	109	20	70 - 130
Toluene	MS	1316295-10	ND	25.780	25.000	ug/L		103		70 - 130
	MSD	1316295-10	ND	25.300	25.000	ug/L	1.9	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1316295-10	ND	9.8900	10.000	ug/L		98.9		75 - 125
	MSD	1316295-10	ND	10.500	10.000	ug/L	6.0	105		75 - 125
Toluene-d8 (Surrogate)	MS	1316295-10	ND	9.9900	10.000	ug/L		99.9		80 - 120
	MSD	1316295-10	ND	9.7300	10.000	ug/L	2.6	97.3		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1316295-10	ND	9.7600	10.000	ug/L		97.6		80 - 120
	MSD	1316295-10	ND	10.050	10.000	ug/L	2.9	100		80 - 120
QC Batch ID: BWH1637		Used client sample: N								
Benzene	MS	1316295-12	ND	25.110	25.000	ug/L		100		70 - 130
	MSD	1316295-12	ND	24.560	25.000	ug/L	2.2	98.2	20	70 - 130
Toluene	MS	1316295-12	ND	23.630	25.000	ug/L		94.5		70 - 130
	MSD	1316295-12	ND	24.170	25.000	ug/L	2.3	96.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1316295-12	ND	10.330	10.000	ug/L		103		75 - 125
	MSD	1316295-12	ND	9.8300	10.000	ug/L	5.0	98.3		75 - 125
Toluene-d8 (Surrogate)	MS	1316295-12	ND	9.8900	10.000	ug/L		98.9		80 - 120
	MSD	1316295-12	ND	10.060	10.000	ug/L	1.7	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1316295-12	ND	9.7700	10.000	ug/L		97.7		80 - 120
	MSD	1316295-12	ND	10.010	10.000	ug/L	2.4	100		80 - 120

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Reported: 08/29/2013 11:14
Project: 0752
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: BWH2165						
Acenaphthene	BWH2165-BLK1	ND	ug/L	2.0		
Acenaphthylene	BWH2165-BLK1	ND	ug/L	2.0		
Aldrin	BWH2165-BLK1	ND	ug/L	2.0		
Aniline	BWH2165-BLK1	ND	ug/L	5.0		
Anthracene	BWH2165-BLK1	ND	ug/L	2.0		
Benzidine	BWH2165-BLK1	ND	ug/L	20		
Benzo[a]anthracene	BWH2165-BLK1	ND	ug/L	2.0		
Benzo[b]fluoranthene	BWH2165-BLK1	ND	ug/L	2.0		
Benzo[k]fluoranthene	BWH2165-BLK1	ND	ug/L	2.0		
Benzo[a]pyrene	BWH2165-BLK1	ND	ug/L	2.0		
Benzo[g,h,i]perylene	BWH2165-BLK1	ND	ug/L	2.0		
Benzoic acid	BWH2165-BLK1	ND	ug/L	10		
Benzyl alcohol	BWH2165-BLK1	ND	ug/L	2.0		
Benzyl butyl phthalate	BWH2165-BLK1	ND	ug/L	2.0		
alpha-BHC	BWH2165-BLK1	ND	ug/L	2.0		
beta-BHC	BWH2165-BLK1	ND	ug/L	2.0		
delta-BHC	BWH2165-BLK1	ND	ug/L	2.0		
gamma-BHC (Lindane)	BWH2165-BLK1	ND	ug/L	2.0		
bis(2-Chloroethoxy)methane	BWH2165-BLK1	ND	ug/L	2.0		
bis(2-Chloroethyl) ether	BWH2165-BLK1	ND	ug/L	2.0		
bis(2-Chloroisopropyl)ether	BWH2165-BLK1	ND	ug/L	2.0		
bis(2-Ethylhexyl)phthalate	BWH2165-BLK1	ND	ug/L	5.0		
4-Bromophenyl phenyl ether	BWH2165-BLK1	ND	ug/L	2.0		
4-Chloroaniline	BWH2165-BLK1	ND	ug/L	2.0		
2-Chloronaphthalene	BWH2165-BLK1	ND	ug/L	2.0		
4-Chlorophenyl phenyl ether	BWH2165-BLK1	ND	ug/L	2.0		
Chrysene	BWH2165-BLK1	ND	ug/L	2.0		
4,4'-DDD	BWH2165-BLK1	ND	ug/L	2.0		
4,4'-DDE	BWH2165-BLK1	ND	ug/L	3.0		
4,4'-DDT	BWH2165-BLK1	ND	ug/L	2.0		
Dibenzo[a,h]anthracene	BWH2165-BLK1	ND	ug/L	3.0		
Dibenzofuran	BWH2165-BLK1	ND	ug/L	2.0		
1,2-Dichlorobenzene	BWH2165-BLK1	ND	ug/L	2.0		
1,3-Dichlorobenzene	BWH2165-BLK1	ND	ug/L	2.0		

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 08/29/2013 11:14
Project: 0752
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: BWH2165						
1,4-Dichlorobenzene	BWH2165-BLK1	ND	ug/L	2.0		
3,3-Dichlorobenzidine	BWH2165-BLK1	ND	ug/L	10		
Dieldrin	BWH2165-BLK1	ND	ug/L	3.0		
Diethyl phthalate	BWH2165-BLK1	ND	ug/L	2.0		
Dimethyl phthalate	BWH2165-BLK1	ND	ug/L	2.0		
Di-n-butyl phthalate	BWH2165-BLK1	ND	ug/L	2.0		
2,4-Dinitrotoluene	BWH2165-BLK1	ND	ug/L	2.0		
2,6-Dinitrotoluene	BWH2165-BLK1	ND	ug/L	2.0		
Di-n-octyl phthalate	BWH2165-BLK1	ND	ug/L	2.0		
1,2-Diphenylhydrazine	BWH2165-BLK1	ND	ug/L	2.0		
Endosulfan I	BWH2165-BLK1	ND	ug/L	10		
Endosulfan II	BWH2165-BLK1	ND	ug/L	10		
Endosulfan sulfate	BWH2165-BLK1	ND	ug/L	3.0		
Endrin	BWH2165-BLK1	ND	ug/L	2.0		
Endrin aldehyde	BWH2165-BLK1	ND	ug/L	10		
Fluoranthene	BWH2165-BLK1	ND	ug/L	2.0		
Fluorene	BWH2165-BLK1	ND	ug/L	2.0		
Heptachlor	BWH2165-BLK1	ND	ug/L	2.0		
Heptachlor epoxide	BWH2165-BLK1	ND	ug/L	2.0		
Hexachlorobenzene	BWH2165-BLK1	ND	ug/L	2.0		
Hexachlorobutadiene	BWH2165-BLK1	ND	ug/L	2.0		
Hexachlorocyclopentadiene	BWH2165-BLK1	ND	ug/L	2.0		
Hexachloroethane	BWH2165-BLK1	ND	ug/L	2.0		
Indeno[1,2,3-cd]pyrene	BWH2165-BLK1	ND	ug/L	2.0		
Isophorone	BWH2165-BLK1	ND	ug/L	2.0		
2-Methylnaphthalene	BWH2165-BLK1	ND	ug/L	2.0		
Naphthalene	BWH2165-BLK1	ND	ug/L	2.0		
2-Naphthylamine	BWH2165-BLK1	ND	ug/L	20		
2-Nitroaniline	BWH2165-BLK1	ND	ug/L	2.0		
3-Nitroaniline	BWH2165-BLK1	ND	ug/L	2.0		
4-Nitroaniline	BWH2165-BLK1	ND	ug/L	5.0		
Nitrobenzene	BWH2165-BLK1	ND	ug/L	2.0		
N-Nitrosodimethylamine	BWH2165-BLK1	ND	ug/L	2.0		
N-Nitrosodi-N-propylamine	BWH2165-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: BWH2165						
N-Nitrosodiphenylamine	BWH2165-BLK1	ND	ug/L	2.0		
Phenanthrene	BWH2165-BLK1	ND	ug/L	2.0		
Pyrene	BWH2165-BLK1	ND	ug/L	2.0		
1,2,4-Trichlorobenzene	BWH2165-BLK1	ND	ug/L	2.0		
4-Chloro-3-methylphenol	BWH2165-BLK1	ND	ug/L	5.0		
2-Chlorophenol	BWH2165-BLK1	ND	ug/L	2.0		
2,4-Dichlorophenol	BWH2165-BLK1	ND	ug/L	2.0		
2,4-Dimethylphenol	BWH2165-BLK1	ND	ug/L	2.0		
4,6-Dinitro-2-methylphenol	BWH2165-BLK1	ND	ug/L	10		
2,4-Dinitrophenol	BWH2165-BLK1	ND	ug/L	10		
2-Methylphenol	BWH2165-BLK1	ND	ug/L	2.0		
3- & 4-Methylphenol	BWH2165-BLK1	ND	ug/L	2.0		
2-Nitrophenol	BWH2165-BLK1	ND	ug/L	2.0		
4-Nitrophenol	BWH2165-BLK1	ND	ug/L	2.0		
Pentachlorophenol	BWH2165-BLK1	ND	ug/L	10		
Phenol	BWH2165-BLK1	ND	ug/L	2.0		
2,4,5-Trichlorophenol	BWH2165-BLK1	ND	ug/L	5.0		
2,4,6-Trichlorophenol	BWH2165-BLK1	ND	ug/L	5.0		
2-Fluorophenol (Surrogate)	BWH2165-BLK1	50.9	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BWH2165-BLK1	36.0	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BWH2165-BLK1	83.5	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BWH2165-BLK1	82.6	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BWH2165-BLK1	83.0	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BWH2165-BLK1	93.2	%	40 - 150 (LCL - UCL)		

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

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		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BWH2165										
Acenaphthene	BWH2165-BS1	LCS	47.210	50.000	ug/L	94.4		50 - 120		
1,4-Dichlorobenzene	BWH2165-BS1	LCS	44.530	50.000	ug/L	89.1		50 - 120		
2,4-Dinitrotoluene	BWH2165-BS1	LCS	49.240	50.000	ug/L	98.5		50 - 120		
Hexachlorobenzene	BWH2165-BS1	LCS	53.970	50.000	ug/L	108		60 - 120		
Hexachlorobutadiene	BWH2165-BS1	LCS	34.480	50.000	ug/L	69.0		40 - 110		
Hexachloroethane	BWH2165-BS1	LCS	45.080	50.000	ug/L	90.2		40 - 120		
Nitrobenzene	BWH2165-BS1	LCS	45.800	50.000	ug/L	91.6		50 - 120		
N-Nitrosodi-N-propylamine	BWH2165-BS1	LCS	41.560	50.000	ug/L	83.1		50 - 120		
Pyrene	BWH2165-BS1	LCS	52.060	50.000	ug/L	104		40 - 140		
1,2,4-Trichlorobenzene	BWH2165-BS1	LCS	41.820	50.000	ug/L	83.6		45 - 120		
4-Chloro-3-methylphenol	BWH2165-BS1	LCS	52.440	50.000	ug/L	105		50 - 120		
2-Chlorophenol	BWH2165-BS1	LCS	44.910	50.000	ug/L	89.8		50 - 120		
2-Methylphenol	BWH2165-BS1	LCS	44.030	50.000	ug/L	88.1		40 - 110		
3- & 4-Methylphenol	BWH2165-BS1	LCS	78.880	100.00	ug/L	78.9		40 - 110		
4-Nitrophenol	BWH2165-BS1	LCS	11.310	50.000	ug/L	22.6		10 - 110		
Pentachlorophenol	BWH2165-BS1	LCS	29.190	50.000	ug/L	58.4		30 - 120		
Phenol	BWH2165-BS1	LCS	21.220	50.000	ug/L	42.4		20 - 110		
2,4,6-Trichlorophenol	BWH2165-BS1	LCS	48.180	50.000	ug/L	96.4		54 - 120		
2-Fluorophenol (Surrogate)	BWH2165-BS1	LCS	49.630	80.000	ug/L	62.0		30 - 120		
Phenol-d5 (Surrogate)	BWH2165-BS1	LCS	36.080	80.000	ug/L	45.1		12 - 110		
Nitrobenzene-d5 (Surrogate)	BWH2165-BS1	LCS	79.680	80.000	ug/L	99.6		60 - 130		
2-Fluorobiphenyl (Surrogate)	BWH2165-BS1	LCS	73.190	80.000	ug/L	91.5		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BWH2165-BS1	LCS	81.600	80.000	ug/L	102		40 - 150		
p-Terphenyl-d14 (Surrogate)	BWH2165-BS1	LCS	34.720	40.000	ug/L	86.8		40 - 150		

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Project Number: 351646
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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	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BWH2165		Used client sample: N								
Acenaphthene	MS	1316295-27	ND	46.820	50.000	ug/L		93.6		50 - 120
	MSD	1316295-27	ND	44.350	50.000	ug/L	5.4	88.7	30	50 - 120
1,4-Dichlorobenzene	MS	1316295-27	ND	43.700	50.000	ug/L		87.4		47 - 120
	MSD	1316295-27	ND	41.710	50.000	ug/L	4.7	83.4	30	47 - 120
2,4-Dinitrotoluene	MS	1316295-27	ND	48.480	50.000	ug/L		97.0		50 - 130
	MSD	1316295-27	ND	49.240	50.000	ug/L	1.6	98.5	30	50 - 130
Hexachlorobenzene	MS	1316295-27	ND	51.410	50.000	ug/L		103		62 - 120
	MSD	1316295-27	ND	50.300	50.000	ug/L	2.2	101	30	62 - 120
Hexachlorobutadiene	MS	1316295-27	ND	34.810	50.000	ug/L		69.6		40 - 110
	MSD	1316295-27	ND	33.720	50.000	ug/L	3.2	67.4	30	40 - 110
Hexachloroethane	MS	1316295-27	ND	41.420	50.000	ug/L		82.8		40 - 120
	MSD	1316295-27	ND	42.800	50.000	ug/L	3.3	85.6	30	40 - 120
Nitrobenzene	MS	1316295-27	ND	46.070	50.000	ug/L		92.1		50 - 120
	MSD	1316295-27	ND	41.790	50.000	ug/L	9.7	83.6	30	50 - 120
N-Nitrosodi-N-propylamine	MS	1316295-27	ND	40.870	50.000	ug/L		81.7		50 - 120
	MSD	1316295-27	ND	39.590	50.000	ug/L	3.2	79.2	30	50 - 120
Pyrene	MS	1316295-27	ND	54.110	50.000	ug/L		108		40 - 140
	MSD	1316295-27	ND	51.540	50.000	ug/L	4.9	103	30	40 - 140
1,2,4-Trichlorobenzene	MS	1316295-27	ND	42.880	50.000	ug/L		85.8		43 - 120
	MSD	1316295-27	ND	38.360	50.000	ug/L	11.1	76.7	30	43 - 120
4-Chloro-3-methylphenol	MS	1316295-27	ND	52.290	50.000	ug/L		105		50 - 120
	MSD	1316295-27	ND	49.050	50.000	ug/L	6.4	98.1	30	50 - 120
2-Chlorophenol	MS	1316295-27	ND	44.820	50.000	ug/L		89.6		50 - 120
	MSD	1316295-27	ND	45.110	50.000	ug/L	0.6	90.2	30	50 - 120
2-Methylphenol	MS	1316295-27	ND	41.150	50.000	ug/L		82.3		40 - 110
	MSD	1316295-27	ND	41.500	50.000	ug/L	0.8	83.0	30	40 - 110
3- & 4-Methylphenol	MS	1316295-27	ND	75.420	100.00	ug/L		75.4		40 - 110
	MSD	1316295-27	ND	74.040	100.00	ug/L	1.8	74.0	30	40 - 110
4-Nitrophenol	MS	1316295-27	ND	10.140	50.000	ug/L		20.3		10 - 110
	MSD	1316295-27	ND	10.610	50.000	ug/L	4.5	21.2	30	10 - 110
Pentachlorophenol	MS	1316295-27	ND	37.710	50.000	ug/L		75.4		30 - 120
	MSD	1316295-27	ND	36.470	50.000	ug/L	3.3	72.9	30	30 - 120
Phenol	MS	1316295-27	ND	20.550	50.000	ug/L		41.1		20 - 110
	MSD	1316295-27	ND	20.570	50.000	ug/L	0.1	41.1	30	20 - 110
2,4,6-Trichlorophenol	MS	1316295-27	ND	46.970	50.000	ug/L		93.9		50 - 120
	MSD	1316295-27	ND	44.850	50.000	ug/L	4.6	89.7	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	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BWH2165		Used client sample: N								
2-Fluorophenol (Surrogate)	MS	1316295-27	ND	48.680	80.000	ug/L		60.8	30 - 120	
	MSD	1316295-27	ND	48.360	80.000	ug/L	0.7	60.4	30 - 120	
Phenol-d5 (Surrogate)	MS	1316295-27	ND	34.520	80.000	ug/L		43.2	12 - 110	
	MSD	1316295-27	ND	34.870	80.000	ug/L	1.0	43.6	12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1316295-27	ND	75.810	80.000	ug/L		94.8	60 - 130	
	MSD	1316295-27	ND	76.920	80.000	ug/L	1.5	96.2	60 - 130	
2-Fluorobiphenyl (Surrogate)	MS	1316295-27	ND	73.470	80.000	ug/L		91.8	55 - 125	
	MSD	1316295-27	ND	69.520	80.000	ug/L	5.5	86.9	55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	1316295-27	ND	79.540	80.000	ug/L		99.4	40 - 150	
	MSD	1316295-27	ND	78.660	80.000	ug/L	1.1	98.3	40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	1316295-27	ND	37.190	40.000	ug/L		93.0	40 - 150	
	MSD	1316295-27	ND	34.150	40.000	ug/L	8.5	85.4	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: BWH1804						
Gasoline Range Organics (C6 - C12)	BWH1804-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BWH1804-BLK1	104	%	70 - 130 (LCL - UCL)		
QC Batch ID: BWH1805						
Gasoline Range Organics (C6 - C12)	BWH1805-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BWH1805-BLK1	101	%	70 - 130 (LCL - UCL)		



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BWH1804											
Gasoline Range Organics (C6 - C12)	BWH1804-BS1	LCS	882.41	1000.0	ug/L	88.2		85 - 115			
a,a,a-Trifluorotoluene (FID Surrogate)	BWH1804-BS1	LCS	41.820	40.000	ug/L	105		70 - 130			
QC Batch ID: BWH1805											
Gasoline Range Organics (C6 - C12)	BWH1805-BS1	LCS	878.22	1000.0	ug/L	87.8		85 - 115			
a,a,a-Trifluorotoluene (FID Surrogate)	BWH1805-BS1	LCS	40.874	40.000	ug/L	102		70 - 130			



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BWH1804		Used client sample: N								
Gasoline Range Organics (C6 - C12)	MS	1316245-30	ND	892.12	1000.0	ug/L		89.2		70 - 130
	MSD	1316245-30	ND	969.42	1000.0	ug/L	8.3	96.9	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1316245-30	ND	36.992	40.000	ug/L		92.5		70 - 130
	MSD	1316245-30	ND	41.682	40.000	ug/L	11.9	104		70 - 130
QC Batch ID: BWH1805		Used client sample: N								
Gasoline Range Organics (C6 - C12)	MS	1316245-31	ND	991.10	1000.0	ug/L		99.1		70 - 130
	MSD	1316245-31	ND	1035.3	1000.0	ug/L	4.4	104	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1316245-31	ND	40.771	40.000	ug/L		102		70 - 130
	MSD	1316245-31	ND	39.964	40.000	ug/L	2.0	99.9		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: BWH1667						
Methane	BWH1667-BLK1	ND	mg/L	0.0010		
QC Batch ID: BWH1668						
Methane	BWH1668-BLK1	ND	mg/L	0.0010		
QC Batch ID: BWH1801						
Methane	BWH1801-BLK1	ND	mg/L	0.0010		



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Gas Testing in Water

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BWH1667										
Methane	BWH1667-BS1	LCS	0.011774	0.010843	mg/L	109		80 - 120		
	BWH1667-BSD1	LCSD	0.011694	0.010843	mg/L	108	0.7	80 - 120	20	
QC Batch ID: BWH1668										
Methane	BWH1668-BS1	LCS	0.010659	0.010843	mg/L	98.3		80 - 120		
	BWH1668-BSD1	LCSD	0.010581	0.010843	mg/L	97.6	0.7	80 - 120	20	
QC Batch ID: BWH1801										
Methane	BWH1801-BS1	LCS	0.010560	0.010843	mg/L	97.4		80 - 120		
	BWH1801-BSD1	LCSD	0.010467	0.010843	mg/L	96.5	0.9	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: BWH1341						
Nitrite as NO2	BWH1341-BLK1	ND	mg/L	0.17		
QC Batch ID: BWH1342						
Nitrite as NO2	BWH1342-BLK1	ND	mg/L	0.17		
QC Batch ID: BWH1343						
Nitrite as NO2	BWH1343-BLK1	ND	mg/L	0.17		
QC Batch ID: BWH1408						
Nitrate as NO3	BWH1408-BLK1	ND	mg/L	0.44		
Sulfate	BWH1408-BLK1	ND	mg/L	1.0		
QC Batch ID: BWH1409						
Nitrate as NO3	BWH1409-BLK1	ND	mg/L	0.44		
Sulfate	BWH1409-BLK1	ND	mg/L	1.0		
QC Batch ID: BWH1410						
Nitrate as NO3	BWH1410-BLK1	ND	mg/L	0.44		
Sulfate	BWH1410-BLK1	ND	mg/L	1.0		
QC Batch ID: BWH1521						
Total Alkalinity as CaCO3	BWH1521-BLK1	ND	mg/L	4.1		
QC Batch ID: BWH1561						
Total Alkalinity as CaCO3	BWH1561-BLK1	ND	mg/L	4.1		
QC Batch ID: BWH1608						
Non-Volatile Organic Carbon	BWH1608-BLK1	ND	mg/L	0.30		
QC Batch ID: BWH1609						
Non-Volatile Organic Carbon	BWH1609-BLK1	ND	mg/L	0.30		
QC Batch ID: BWH1610						
Non-Volatile Organic Carbon	BWH1610-BLK1	ND	mg/L	0.30		
QC Batch ID: BWH1658						
Total Alkalinity as CaCO3	BWH1658-BLK1	ND	mg/L	4.1		



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Reported: 08/29/2013 11:14
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BWH1341										
Nitrite as NO2	BWH1341-BS1	LCS	1.6627	1.6425	mg/L	101		90 - 110		
QC Batch ID: BWH1342										
Nitrite as NO2	BWH1342-BS1	LCS	1.6167	1.6425	mg/L	98.4		90 - 110		
QC Batch ID: BWH1343										
Nitrite as NO2	BWH1343-BS1	LCS	1.6344	1.6425	mg/L	99.5		90 - 110		
QC Batch ID: BWH1408										
Nitrate as NO3	BWH1408-BS1	LCS	23.484	22.134	mg/L	106		90 - 110		
Sulfate	BWH1408-BS1	LCS	102.41	100.00	mg/L	102		90 - 110		
QC Batch ID: BWH1409										
Nitrate as NO3	BWH1409-BS1	LCS	23.161	22.134	mg/L	105		90 - 110		
Sulfate	BWH1409-BS1	LCS	102.98	100.00	mg/L	103		90 - 110		
QC Batch ID: BWH1410										
Nitrate as NO3	BWH1410-BS1	LCS	23.537	22.134	mg/L	106		90 - 110		
Sulfate	BWH1410-BS1	LCS	103.65	100.00	mg/L	104		90 - 110		
QC Batch ID: BWH1521										
Total Alkalinity as CaCO3	BWH1521-BS3	LCS	97.520	100.00	mg/L	97.5		90 - 110		
QC Batch ID: BWH1561										
Total Alkalinity as CaCO3	BWH1561-BS3	LCS	95.390	100.00	mg/L	95.4		90 - 110		
QC Batch ID: BWH1608										
Non-Volatile Organic Carbon	BWH1608-BS1	LCS	5.0960	5.0000	mg/L	102		85 - 115		
QC Batch ID: BWH1609										
Non-Volatile Organic Carbon	BWH1609-BS1	LCS	5.1380	5.0000	mg/L	103		85 - 115		
QC Batch ID: BWH1610										
Non-Volatile Organic Carbon	BWH1610-BS1	LCS	5.1030	5.0000	mg/L	102		85 - 115		
QC Batch ID: BWH1658										
Total Alkalinity as CaCO3	BWH1658-BS3	LCS	100.10	100.00	mg/L	100		90 - 110		

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Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes multiple QC batches (BWH1341-1561) with various analytes like Nitrite as NO2, Nitrate as NO3, Sulfate, and Total Alkalinity as CaCO3.

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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		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BWH1608		Used client sample: Y - Description: MW-1-W-130815, 08/15/2013 12:49									
Non-Volatile Organic Carbon	DUP	1317587-02	0.74800	0.77700		mg/L	3.8		10		
	MS	1317587-02	0.74800	5.9980	5.0251	mg/L		104		80 - 120	
	MSD	1317587-02	0.74800	6.0221	5.0251	mg/L	0.4	105	10	80 - 120	
QC Batch ID: BWH1609		Used client sample: Y - Description: A-MW-3-W-130815, 08/15/2013 10:05									
Non-Volatile Organic Carbon	DUP	1317587-12	1.3710	1.4400		mg/L	4.9		10		
	MS	1317587-12	1.3710	6.4935	5.0251	mg/L		102		80 - 120	
	MSD	1317587-12	1.3710	6.4955	5.0251	mg/L	0.0	102	10	80 - 120	
QC Batch ID: BWH1610		Used client sample: Y - Description: S-MW-6-W-130815, 08/15/2013 11:30									
Non-Volatile Organic Carbon	DUP	1317587-22	7.4320	8.0860		mg/L	8.4		10		
	MS	1317587-22	7.4320	18.338	10.050	mg/L		109		80 - 120	
	MSD	1317587-22	7.4320	18.866	10.050	mg/L	2.8	114	10	80 - 120	
QC Batch ID: BWH1658		Used client sample: Y - Description: MW-1-W-130815, 08/15/2013 12:49									
Total Alkalinity as CaCO3	DUP	1317587-02	45.180	45.030		mg/L	0.3		10		

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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: BWH1539						
Dissolved Cadmium	BWH1539-BLK1	ND	ug/L	10		
Dissolved Chromium	BWH1539-BLK1	ND	ug/L	10		
Dissolved Iron	BWH1539-BLK1	ND	ug/L	50		
Dissolved Lead	BWH1539-BLK1	ND	ug/L	50		
Dissolved Nickel	BWH1539-BLK1	ND	ug/L	10		
Dissolved Zinc	BWH1539-BLK1	ND	ug/L	10		
QC Batch ID: BWH1540						
Dissolved Iron	BWH1540-BLK1	ND	ug/L	50		



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Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BWH1539										
Dissolved Cadmium	BWH1539-BS1	LCS	193.92	200.00	ug/L	97.0		85	115	
Dissolved Chromium	BWH1539-BS1	LCS	195.07	200.00	ug/L	97.5		85	115	
Dissolved Iron	BWH1539-BS1	LCS	1015.7	1000.0	ug/L	102		85	115	
Dissolved Lead	BWH1539-BS1	LCS	405.25	400.00	ug/L	101		85	115	
Dissolved Nickel	BWH1539-BS1	LCS	402.84	400.00	ug/L	101		85	115	
Dissolved Zinc	BWH1539-BS1	LCS	496.97	500.00	ug/L	99.4		85	115	
QC Batch ID: BWH1540										
Dissolved Iron	BWH1540-BS1	LCS	995.48	1000.0	ug/L	99.5		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	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BWH1539		Used client sample: N								
Dissolved Cadmium	DUP	1317693-01	ND	ND		ug/L			20	
	MS	1317693-01	ND	201.80	204.08	ug/L		98.9		75 - 125
	MSD	1317693-01	ND	202.09	204.08	ug/L	0.1	99.0	20	75 - 125
Dissolved Chromium	DUP	1317693-01	ND	ND		ug/L			20	
	MS	1317693-01	ND	194.81	204.08	ug/L		95.5		75 - 125
	MSD	1317693-01	ND	194.82	204.08	ug/L	0.0	95.5	20	75 - 125
Dissolved Iron	DUP	1317693-01	32.150	ND		ug/L			20	
	MS	1317693-01	32.150	1011.3	1020.4	ug/L		96.0		75 - 125
	MSD	1317693-01	32.150	1025.1	1020.4	ug/L	1.4	97.3	20	75 - 125
Dissolved Lead	DUP	1317693-01	ND	ND		ug/L			20	
	MS	1317693-01	ND	411.41	408.16	ug/L		101		75 - 125
	MSD	1317693-01	ND	409.24	408.16	ug/L	0.5	100	20	75 - 125
Dissolved Nickel	DUP	1317693-01	ND	ND		ug/L			20	
	MS	1317693-01	ND	402.90	408.16	ug/L		98.7		75 - 125
	MSD	1317693-01	ND	403.20	408.16	ug/L	0.1	98.8	20	75 - 125
Dissolved Zinc	DUP	1317693-01	ND	ND		ug/L			20	
	MS	1317693-01	ND	506.30	510.20	ug/L		99.2		75 - 125
	MSD	1317693-01	ND	508.65	510.20	ug/L	0.5	99.7	20	75 - 125
QC Batch ID: BWH1540		Used client sample: Y - Description: MW-3-W-130815, 08/15/2013 08:58								
Dissolved Iron	DUP	1317587-04	4161.7	4091.7		ug/L	1.7		20	
	MS	1317587-04	4161.7	4893.8	1020.4	ug/L		71.7		75 - 125 A03
	MSD	1317587-04	4161.7	5020.7	1020.4	ug/L	2.6	84.2	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.
- A03 The sample concentration is more than 4 times the spike level.