



July 10, 2015

Nicole Arceneaux
Project Manager
Marketing Business Unit

**Chevron Environmental
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om

Mr. Keith Nowell
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health 11:25 am, Jul 13, 2015

RE: First Semi-Annual 2015 Groundwater Monitoring Report

10151 International Blvd, Oakland, California
Fuel Leak Case No.: RO0002444

Dear Mr. Nowell,

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

If you have any questions or need additional information, please contact me at (925) 790-6912.

Sincerely,

Nicole Arceneaux
Union Oil of California – Project Manager

Attachment:
First Semi-Annual 2015 Groundwater Monitoring Report

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

Subject:
First Half 2015 Semi-Annually Groundwater Monitoring Report Submittal

ENVIRONMENT

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company's affiliate, Union Oil Company of California ("Union Oil"), ARCADIS U.S., Inc (ARCADIS) is pleased to submit the enclosed Semi-Annual Groundwater Monitoring Report for the following facility:

Date:
July 10, 2015

Contact:
Katherine Brandt

Phone:
510.596.9675

Email:
Katherine.brandt@
arcadis-us.com

| <u>Facility No.</u> | <u>Case No.</u> | <u>Location</u> |
|---------------------|-----------------|--|
| 7124 | RO0002444 | 10151 International Boulevard Oakland, California |

Our ref:
B0047297.2014

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

Sincerely,

ARCADIS



Katherine Brandt, P.G.
Certified Project Manager



Copies:

Ms. Nicole Arceneaux, Chevron EMC (electronic copy only)
Ms. Cherie McCaulou, CRWQCB – San Francisco Bay Region, 1515 Clay Street, Suite1400,
Oakland, California 94612 (geotracker)
Ibrahim and Nawa Abbushi, property owner, 10125 International Blvd, Oakland, CA 94603 (CD)

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST HALF 2015
July 10, 2015**

Facility No.: 7124 Address: 10151 International Boulevard, Oakland, California

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

Primary Agency/Contact Person/Regulatory ID No.: Alameda County Health Agency / Mr. Keith Nowell / Case No. RO0002444

WORK PERFORMED DURING THIS REPORTING PERIOD (First Half – 2015) :

1. Gettler-Ryan Inc. (G-R) conducted groundwater monitoring and sampling on June 17, 2015. Field data sheets and general procedures are included as **Attachment A**. Four (4) groundwater monitoring wells (MW-1 through MW-4) were gauged and sampled during this monitoring event.

Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g; C6-C12) by Environmental Protection Agency (EPA) Method 8015B; benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), oxygenates (methyl tertiary butyl ether [MTBE], tertiary butyl alcohol [TBA], ethyl tertiary butyl ether [ETBE], diisopropyl ether [DIPE], and tertiary amyl methyl ether [TAME]), ethanol, 1,2-dibromoethane (EDB), and 1,2-dichloroethane (EDC) by EPA Method 8260B. Groundwater samples were additionally analyzed for methane by method RSK-175M, EPA Method 310.1 for total alkalinity as calcium carbonate (CaCO₃), EPA Method 300.0 for nitrate (NO₃) and sulfate, EPA Method 353.2 for nitrite (NO₂), EPA Method 415.1 for non-volatile organic carbon, Method SM-3500-FeD for ferrous iron, and EPA Method 6010B for dissolved iron and total manganese.

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

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Second Half – 2015):

1. Discontinue Groundwater Sampling and prepare for well destructions.

| | |
|--|---|
| Current Phase of Project: | <u>Low Threat Closure Request/Public Participation</u> |
| Site Use: | <u>Retail service station</u> |
| Frequency of Sampling: | <u>Groundwater – Semi-Annually</u> |
| Frequency of Monitoring: | <u>Groundwater – Semi-Annually</u> |
| Separate-Phase Hydrocarbons (SPH) Present: | <u>No</u> |
| Cumulative SPH Recovered to Date: | <u>None</u> |
| SPH Recovered This Quarter: | <u>None</u> |
| Bulk Soil Removed to Date: | <u>60 cubic yards</u> |
| Bulk Soil Removed this Quarter: | <u>None</u> |
| Water Wells or Surface Waters within a 2000' Radius and Their Respective Directions: | <u>None</u> |
| Groundwater Use Designation: | <u>Municipal and Domestic Water Supply</u> |
| Current Remediation Techniques: | <u>None</u> |
| Permits for Discharge (No.): | <u>None</u> |
| Approximate Depth to Groundwater : | <u>17.30 (MW-1) – 19.04 (MW-4) feet below top of casing</u> |
| | Measured <input checked="" type="checkbox"/> Estimated |

**UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST HALF 2015
July 10, 2015**

Facility No.: 7124 Address: 10151 International Boulevard, Oakland, California

Approximate Groundwater Elevation : 19.32 (MW-4/MW-2) – 20.07 (MW-1) feet relative to mean sea level

Measured X Estimated

Groundwater Gradient: 0.006 ft/ft (Magnitude) West (Direction)

DISCUSSION:

Groundwater flow has switched directions during the second half, returning to the westerly flow observed in monitoring events prior to the first half of 2014.

During the first half of 2015 groundwater concentrations of TPH-g have decreased since the sampling event in the second half of 2014. Groundwater concentrations of MTBE during the first half of 2015 have decreased in well MW-3 compared to the previous sampling event in the second half of 2014. The maximum dissolved concentrations of TPH-g, 250 micrograms per liter [$\mu\text{g/L}$], and MTBE (3.2 $\mu\text{g/L}$) were detected in well MW-3. MW-4 had detections of TPH-g at 78 $\mu\text{g/L}$. Other constituents were not detected above the laboratory reporting limits for wells sampled.

The maximum concentrations of monitored natural attenuation analytes are listed as follows: The maximum dissolved concentrations of methane (0.11 milligrams per liter [mg/L]), non-volatile organic carbon (25 mg/L), dissolved ferrous iron (4,700 $\mu\text{g/L}$), dissolved iron (350 $\mu\text{g/L}$), and total alkalinity as CaCO_3 (310 mg/L) were detected in well MW-3. The maximum dissolved concentrations of sulfate (51 mg/L) was detected in MW-4. The maximum dissolved concentrations of total manganese (6,300 $\mu\text{g/L}$) was detected in well MW-3.

Groundwater elevations at the service station vary by less than a foot, creating a gentle hydraulic gradient of 0.006 feet per foot in the westerly direction.

CONCLUSIONS AND RECOMMENDATIONS:

Dissolved hydrocarbon constituent concentrations have remained consistent with historic detections at the site. ARCADIS recommends discontinuing groundwater monitoring during agency review of the updated focused Conceptual Site Model and Low Threat Closure Request (CSM/LTC Request). ARCADIS submitted a CSM/LTC Request on November 21, 2014.

ATTACHMENTS:

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

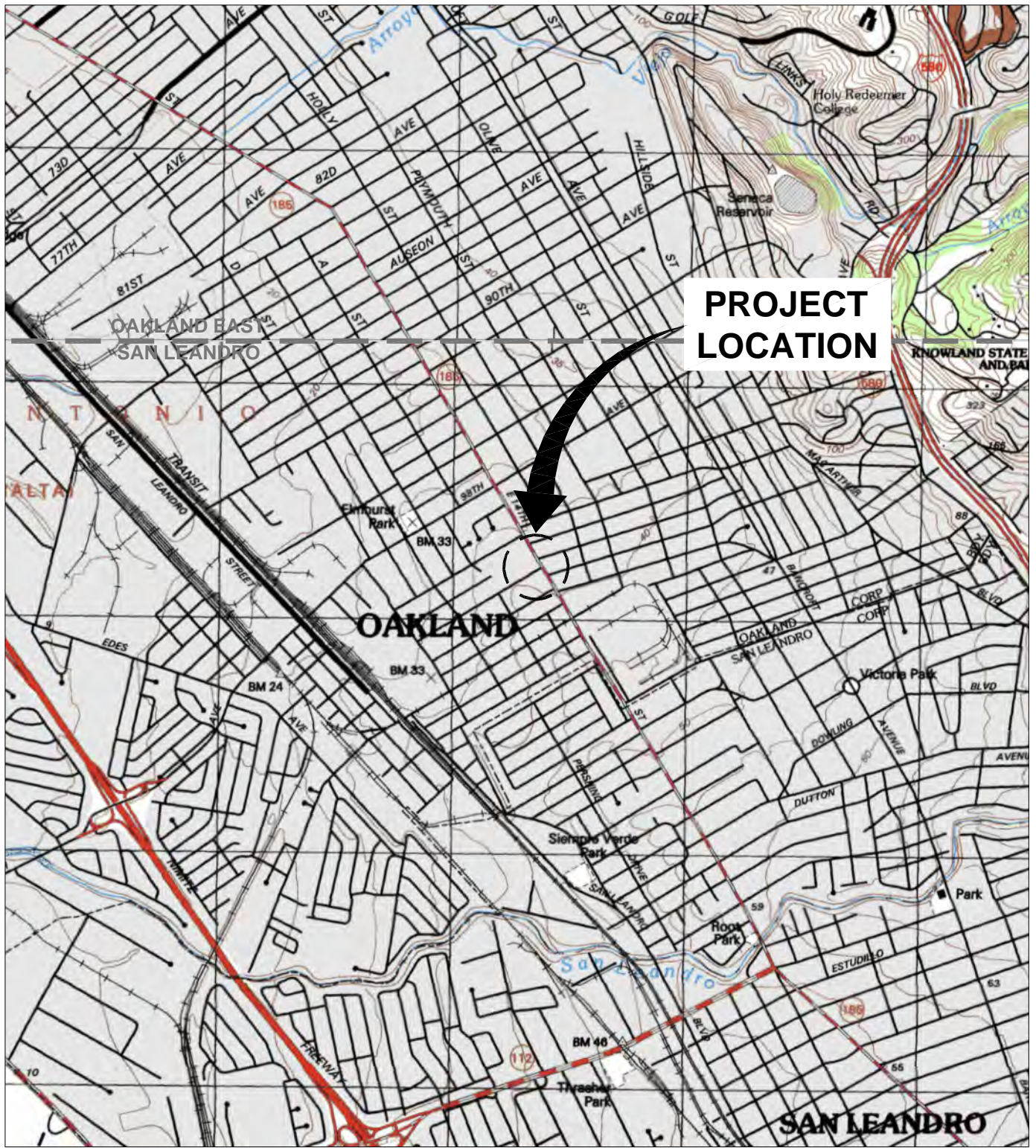
- Table 1: Current Groundwater Gauging and Analytical Results
- Table 1a: Current Additional Groundwater Analytical Results
- Table 2: Historic Groundwater Gauging and Analytical Results
- Table 2a: Historic Additional Groundwater Analytical Results

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

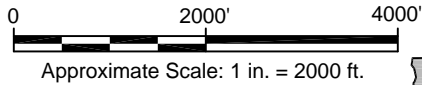
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Figures

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REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., SAN LEANDRO, CALIFORNIA, 1993, AND OAKLAND EAST, CALIFORNIA, 1997.



UNION OIL
 STATION NO. 7124
 10151 INTERNATIONAL BOULEVARD
 OAKLAND, CALIFORNIA

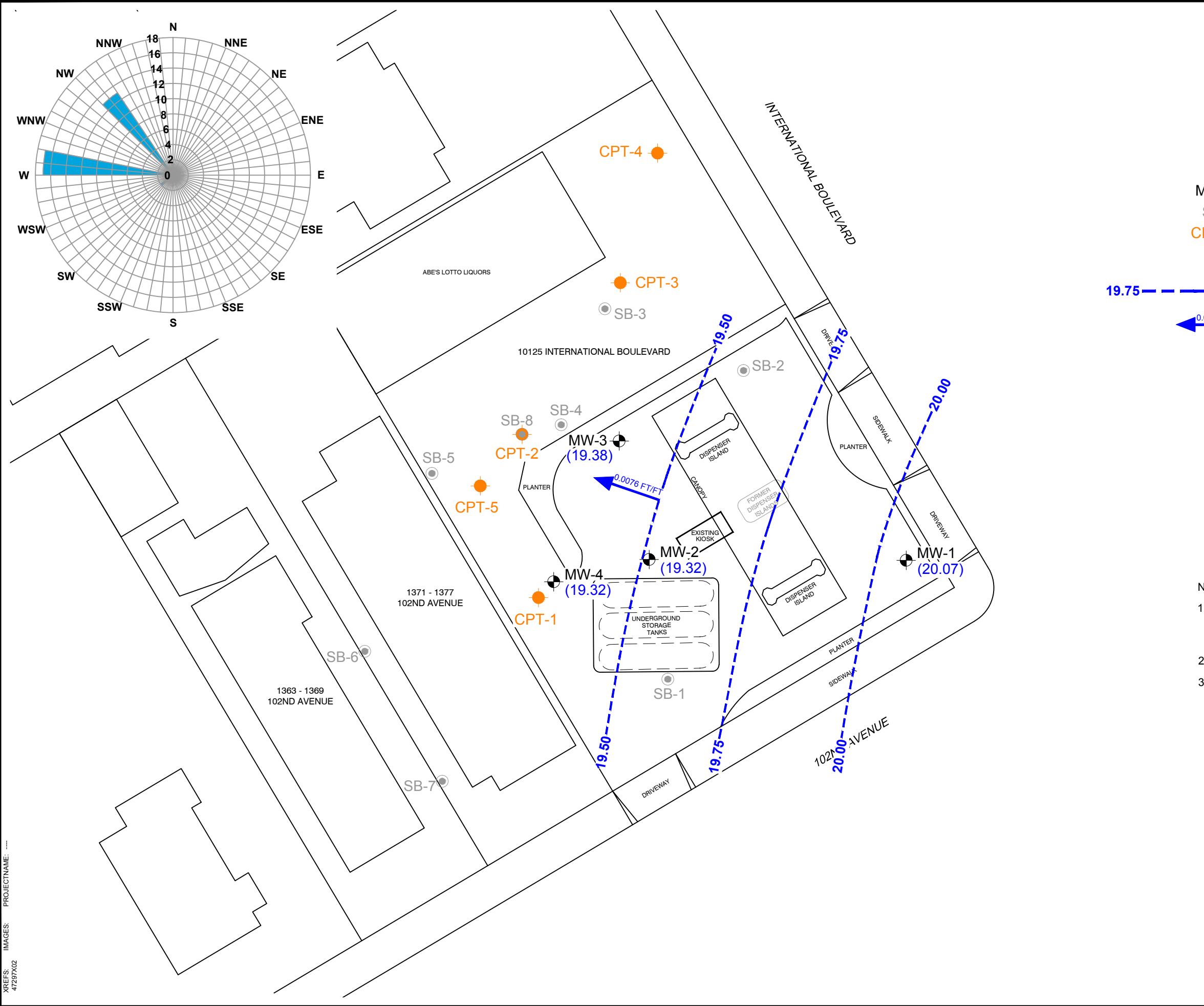
SITE LOCATION MAP



FIGURE
1

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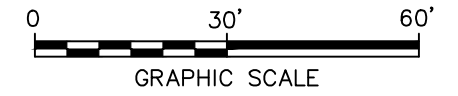
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LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- SB-1 SOIL BORING LOCATION
- CPT-1 CPT LOCATION
- (20.07) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 19.75 GROUNDWATER ELEVATION CONTOUR (FT MSL, DASHED WHERE INFERRED)
- 0.0076 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)

- NOTES:**
1. BASE MAP PROVIDED BY TRC, DATED JANUARY 2010, AT A SCALE OF 1"=20'. ADDITIONAL SITE INFORMATION PROVIDED BY STANTEC, DATED SEPTEMBER 23, 2008, AT A SCALE OF 1"=40'.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 3. ALL MONITORING WELLS WERE SAMPLED AND GAUGED ON JUNE 17, 2015.



UNION OIL
 STATION NO. 7124
 10151 INTERNATIONAL BOULEVARD
 OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION
 CONTOUR MAP**

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FIGURE
3

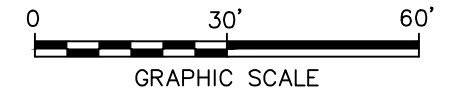
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LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- SB-1 SOIL BORING LOCATION
- CPT-1 CPT LOCATION
- [TPH-g] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (C6-C12) CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- 100 TPH-g ISOCONCENTRATION CONTOUR ($\mu\text{g/L}$; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

- NOTES:**
1. BASE MAP PROVIDED BY TRC, DATED JANUARY 2010, AT A SCALE OF 1"=20'. ADDITIONAL SITE INFORMATION PROVIDED BY STANTEC, DATED SEPTEMBER 23, 2008, AT A SCALE OF 1"=40'.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
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UNION OIL
STATION NO. 7124
10151 INTERNATIONAL BOULEVARD
OAKLAND, CALIFORNIA

TPH-g CONCENTRATION MAP

FIGURE
4

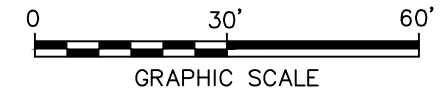
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 XREFS: IMAGES: PROJECTNAME: 47297X02



- LEGEND
- MW-1 GROUNDWATER MONITORING WELL
 - SB-1 SOIL BORING LOCATION
 - CPT-1 CPT LOCATION
 - [BEN] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
 - < DENOTES LESS THAN LABORATORY REPORTING LIMIT



- NOTES:
1. BASE MAP PROVIDED BY TRC, DATED JANUARY 2010, AT A SCALE OF 1"=20'. ADDITIONAL SITE INFORMATION PROVIDED BY STANTEC, DATED SEPTEMBER 23, 2008, AT A SCALE OF 1"=40'.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 3. ALL MONITORING WELLS WERE SAMPLED AND GAUGED ON JUNE 17, 2015.



| | |
|---|--------------------|
| UNION OIL STATION NO. 7124 10151 INTERNATIONAL BOULEVARD OAKLAND, CALIFORNIA | |
| BENZENE CONCENTRATION MAP | |
| | FIGURE 5 |

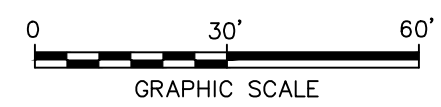
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 XREFS: IMAGES: PROJECTNAME: 47297X02



- LEGEND
- MW-1 GROUNDWATER MONITORING WELL
 - SB-1 SOIL BORING LOCATION
 - CPT-1 CPT LOCATION
 - [MTBE] METHYL TERTIARY BUTYL ETHER CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
 - < DENOTES LESS THAN LABORATORY REPORTING LIMIT



- NOTES:
1. BASE MAP PROVIDED BY TRC, DATED JANUARY 2010, AT A SCALE OF 1"=20'. ADDITIONAL SITE INFORMATION PROVIDED BY STANTEC, DATED SEPTEMBER 23, 2008, AT A SCALE OF 1"=40'.
 2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
 3. ALL MONITORING WELLS WERE SAMPLED AND GAUGED ON JUNE 17, 2015.



| | |
|---|--------------------|
| UNION OIL STATION NO. 7124 10151 INTERNATIONAL BOULEVARD OAKLAND, CALIFORNIA | |
| MTBE CONCENTRATION MAP | |
| | FIGURE 6 |

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Tables

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 7124
10151 International Boulevard, Oakland, California

| Well ID | Date Sampled | TOC Elevation (feet MSL) | DTW (feet BTOC) | LPH Thickness (feet) | GW Elevation (feet MSL) | Previous | Change in Elevation (feet) | TPH-g (8015B) | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE | TBA | DIPE | TAME | ETBE | Ethanol | EDB | EDC | Comments |
|---------|--------------|--------------------------|-----------------|----------------------|-------------------------|------------------------|----------------------------|---------------|---------|---------|---------------|---------------|-------|-----|-------|-------|-------|---------|-------|-------|----------|
| | | | | | | Quarter GWE (feet MSL) | | | | | | | | | | | | | | | |
| MW-1 | 6/17/2015 | 37.37 | 17.30 | 0.00 | 20.07 | 19.08 | 0.99 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-2 | 6/17/2015 | 37.87 | 18.55 | 0.00 | 19.32 | 18.56 | 0.76 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-3 | 6/17/2015 | 37.72 | 18.34 | 0.00 | 19.38 | 18.55 | 0.83 | 250 | <0.50 | <0.50 | <0.50 | <1.0 | 3.2 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-4 | 6/17/2015 | 38.36 | 19.04 | 0.00 | 19.32 | 18.48 | 0.84 | 78 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |

Note

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

Standard Abbreviations

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

Analytes

- TPH-g total petroleum hydrocarbons with gasoline (C6-C12)
- MTBE methyl tertiary butyl ether
- TBA tertiary butyl alcohol
- DIPE di-isopropyl ether
- TAME tertiary amyl methyl ether
- ETBE ethyl tertiary butyl ether
- EDB 1,2-dibromoethane (same as ethylene dibromide)
- EDC 1,2-dichloroethane (same as ethylene dichloride)
- 8015B EPA Method 8015B for TPH-g (C6-C12)
- EPA Environmental Protection Agency
- 8260B EPA Method 8260B for BTEX/MTBE, Oxygenates, EDB, EDC, and ethanol

Table 1a
Current Additional Groundwater Analytical Results
76 Station 7124
10151 International Boulevard, Oakland, California

| Well ID | Date Sampled | Methane (mg/L) | Total Alkalinity as CaCO3 (mg/L) | NO3 (mg/L) | NO2 (mg/L) | Sulfate (mg/L) | Total Sulfide (mg/L) | NVOC (mg/L) | Iron (II) Species | Dissolved Iron | Total Manganese | Comments |
|---------|--------------|----------------|----------------------------------|------------|------------|----------------|----------------------|-------------|-------------------|----------------|-----------------|----------|
| MW-1 | 6/17/2015 | <0.001 | 170 | 28 | <0.17 | 28 | <0.10 | <1.0 | <100 | <50 | 2,900 | |
| MW-2 | 6/17/2015 | <0.001 | 210 | <0.44 | <0.17 | 34 | <0.10 | <1.0 | 2,500 | 320 | 5,300 | |
| MW-3 | 6/17/2015 | 0.11 | 310 | <0.44 | <0.17 | <1.0 | <0.50 | 25.0 | 4,700 | 350 | 6,300 | A07 |
| MW-4 | 6/17/2015 | 0.0027 | 210 | <0.44 | <0.17 | 51 | <0.10 | 1.9 | 2,100 | <50 | 2,400 | |

Note

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

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

Analytes

- CaCO3 calcium carbonate
- NO3 nitrate
- NO2 nitrite
- NVOC non-volatile organic carbon
- RSK-175M Method RSK-175M for Methane
- 310.1 EPA Method 310.1 for Total Alkalinity as CaCO3
- EPA Environmental Protection Agency
- 300.0 EPA Method 300.0 for NO3 and Sulfate
- 353.2 EPA Method 353.2 for NO2
- SM-4500SD Method SM-4500SD for Total Sulfide
- 415.1 EPA Method 415.1 for NVOC
- SM-3500-FeD Method SM-3500-FeD for Iron (II) Species
- 6010B EPA Method 6010B for Dissolved Iron and Total Manganese

Notes

- A01 PQL's and MDL's are raised due to sample dilution.
- PQL practical quantitation limit
- MDL method detection limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A10 PQL's and MDL's were raised due to matrix interference.

Table 2
Historic Groundwater Gauging and Analytical Results
76 Station 7124
10151 International Boulevard, Oakland, California

| Well ID | Date Sampled | TOC Elevation (feet MSL) | DTW (feet bTOC) | LPH Thickness (feet) | GW Elevation (feet MSL) | Previous Quarter GWE (feet MSL) | Change in Elevation (feet) | TPH-g (8015B) | Benzene | Toluene | Ethyl-benzene | Total Xylenes | MTBE | TBA | DIPE | TAME | ETBE | Ethanol | EDB | EDC | Comments |
|---------|--------------|--------------------------|-----------------|----------------------|-------------------------|---------------------------------|----------------------------|---------------|---------|---------|---------------|---------------|-------|-----|-------|-------|-------|---------|-------|-------|----------|
| | | | | | | | | | | | | | | | | | | | | | |
| MW-1 | 11/2/2011 | 37.37 | 17.52 | 0.00 | 19.85 | 21.02 | -1.17 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-1 | 4/6/2012 | 37.37 | 14.20 | 0.00 | 23.17 | 20.99 | 2.18 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-1 | 6/13/2013 | 37.37 | 16.81 | 0.00 | 20.56 | 23.17 | -2.61 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-1 | 10/7/2013 | 37.37 | 17.62 | 0.00 | 19.75 | 20.56 | -0.81 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-1 | 4/8/2014 | 37.37 | 17.52 | 0.00 | 19.85 | 19.75 | 0.10 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-1 | 10/15/2014 | 37.37 | 18.29 | 0.00 | 19.08 | 19.85 | -0.77 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-1 | 6/17/2015 | 37.37 | 17.30 | 0.00 | 20.07 | 19.08 | 0.99 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-2 | 11/2/2011 | 37.87 | 17.15 | 0.00 | 20.72 | 20.19 | 0.53 | 96 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-2 | 4/6/2012 | 37.87 | 15.63 | 0.00 | 22.24 | 20.72 | 1.52 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-2 | 6/13/2013 | 37.87 | 18.03 | 0.00 | 19.84 | 22.24 | -2.40 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-2 | 10/7/2013 | 37.87 | 18.74 | 0.00 | 19.13 | 19.84 | -0.71 | 99 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-2 | 4/8/2014 | 37.87 | 17.80 | 0.00 | 20.07 | 19.13 | <0.10 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-2 | 10/15/2014 | 37.87 | 19.31 | 0.00 | 18.56 | 20.07 | -1.51 | 100 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-2 | 6/17/2015 | 37.87 | 18.55 | 0.00 | 19.32 | 18.56 | 0.76 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-3 | 11/2/2011 | 37.72 | 17.55 | 0.00 | 20.17 | 20.07 | 0.10 | 880 | <0.50 | <0.50 | <0.50 | <1.0 | 35 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-3 | 4/6/2012 | 37.72 | 16.40 | 0.00 | 21.32 | 20.17 | 1.15 | 1,000 | <0.50 | <0.50 | <0.50 | <1.0 | 210 | 85 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | A01 |
| MW-3 | 6/13/2013 | 37.72 | 17.95 | 0.00 | 19.77 | 21.32 | -1.55 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | 6.5 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-3 | 10/7/2013 | 37.72 | 18.62 | 0.00 | 19.10 | 20.27 | -1.17 | 880 | <0.50 | <0.50 | <0.50 | <1.0 | 12 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-3 | 4/8/2014 | 37.72 | 17.10 | 0.00 | 20.62 | 19.10 | 1.52 | 320 | <0.50 | <0.50 | <0.50 | <1.0 | 150 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-3 | 10/15/2014 | 37.72 | 19.17 | 0.00 | 18.55 | 20.62 | -2.07 | 1,600 | <0.50 | <0.50 | <0.50 | <1.0 | 27 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-3 | 6/17/2015 | 37.72 | 18.34 | 0.00 | 19.38 | 18.55 | 0.83 | 250 | <0.50 | <0.50 | <0.50 | <1.0 | 3.2 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-4 | 11/2/2011 | 38.36 | 18.27 | 0.00 | 20.09 | 20.08 | 0.01 | 170 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-4 | 4/6/2012 | 38.36 | 15.68 | 0.00 | 22.68 | 20.09 | 2.59 | 200 | <0.50 | <0.50 | <0.50 | <1.0 | 1.7 | 58 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-4 | 6/13/2013 | 38.36 | 18.65 | 0.00 | 19.71 | 22.68 | -2.97 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-4 | 10/7/2013 | 38.36 | 19.33 | 0.00 | 19.03 | 19.71 | -0.68 | 95 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-4 | 4/8/2014 | 38.36 | 18.04 | 0.00 | 20.32 | 19.03 | 1.29 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-4 | 10/15/2014 | 38.36 | 19.88 | 0.00 | 18.48 | 20.32 | -1.84 | 190 | <0.50 | <0.50 | <0.50 | <1.0 | 0.63 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |
| MW-4 | 6/17/2015 | 38.36 | 19.04 | 0.00 | 19.32 | 18.48 | 0.84 | 78 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | <10 | <0.50 | <0.50 | <0.50 | <250 | <0.50 | <0.50 | |

Note

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

Standard Abbreviations

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

Analytes

- TPH-g total petroleum hydrocarbons with gasoline (C6-C12)
- MTBE methyl tertiary butyl ether
- TBA tertiary butyl alcohol
- DIPE di-isopropyl ether
- TAME tertiary amyl methyl ether
- ETBE ethyl tertiary butyl ether
- EDB 1,2-dibromoethane (same as ethylene dibromide)
- EDC 1,2-dichloroethane (same as ethylene dichloride)
- 8015B EPA Method 8015B for TPH-g (C6-C12)
- EPA Environmental Protection Agency
- 8260B EPA Method 8260B for BTEX/MTBE, Oxygenates, EDB, EDC, and ethanol

Notes

- A01 PQL's and MDL's are raised due to sample dilution.
- PQL practical quantitation limit
- MDL method detection limit

Table 2a
Historic Additional Groundwater Analytical Results
76 Station 7124
10151 International Boulevard, Oakland, California

| Well ID | Date Sampled | Methane (mg/L) | Total Alkalinity as CaCO3 (mg/L) | NO3 (mg/L) | NO2 (mg/L) | Sulfate (mg/L) | Total Sulfide (mg/L) | NVOC (mg/L) | Iron (II) Species | Dissolved Iron | Total Manganese | Comments |
|---------|--------------|----------------|----------------------------------|------------|------------|----------------|----------------------|-------------|-------------------|----------------|-----------------|----------|
| MW-1 | 6/13/2013 | <0.0010 | 17.52 | 24 | <0.17 | 23 | <0.50 | 1.1 | <100 | <50 | 31,000 | A10 |
| MW-1 | 10/7/2013 | 0.015 | 150 | 0 | <0.17 | 22 | <0.10 | 3.4 | <100 | <50 | 13,000 | |
| MW-1 | 4/8/2014 | 0.0049 | 170 | 22 | <0.17 | 25 | <0.10 | 1.3 | <100 | <50 | 11,000 | |
| MW-1 | 10/15/2014 | <0.001 | 160 | 27 | <0.17 | 26 | <0.50 | <1.0 | <100 | <50 | 39,000 | |
| MW-1 | 6/17/2015 | <0.001 | 170 | 28 | <0.17 | 28 | <0.10 | <1.0 | <100 | <50 | 2,900 | |
| MW-2 | 6/13/2013 | <0.0010 | 180 | <0.44 | <0.17 | 20 | <0.10 | 1.0 | 250 | 120 | 9,700 | |
| MW-2 | 10/7/2013 | 0.0049 | 200 | <0.44 | <0.17 | 9.6 | <0.10 | 3.2 | 2700 | 260 | 5,600 | |
| MW-2 | 4/8/2014 | 0.007 | 210 | <0.44 | <0.17 | 33 | <0.10 | 1.4 | 1,700 | 140 | 8,400 | |
| MW-2 | 10/15/2014 | 0.011 | 210 | <0.44 | <0.17 | 20 | <0.50 | <1.0 | 19,000 | 200 | 6,400 | |
| MW-2 | 6/17/2015 | <0.001 | 210 | <0.44 | <0.17 | 34 | <0.10 | <1.0 | 2,500 | 320 | 5,300 | |
| MW-3 | 6/13/2013 | 0.075 | 260 | <0.44 | <0.17 | <1.0 | <0.10 | 1.4 | 3,200 | 160 | 5,700 | |
| MW-3 | 10/7/2013 | 0.071 | 260 | <0.44 | <0.17 | <1.0 | <0.10 | 3.1 | 9,000 | 710 | 9,600 | A01 |
| MW-3 | 4/8/2014 | 0.034 | 290 | <0.44 | <0.17 | 2.1 | <0.10 | 1.3 | 1,200 | 220 | 6,000 | A01 |
| MW-3 | 10/15/2014 | 0.069 | 290 | <0.44 | <0.17 | <1.0 | <0.50 | <1.0 | <100 | 93 | 6,900 | |
| MW-3 | 6/17/2015 | 0.11 | 310 | <0.44 | <0.17 | <1.0 | <0.50 | 25.0 | 4,700 | 350 | 6,300 | A07 |
| MW-4 | 6/13/2013 | <0.0010 | 210 | <0.44 | <0.17 | 15 | <0.50 | 4.7 | 5,200 | <50 | 7,900 | A01, A10 |
| MW-4 | 10/7/2013 | <0.0010 | 190 | <0.44 | <0.17 | 18 | <0.10 | 8.2 | 13,000 | 220 | 5,000 | A01 |
| MW-4 | 4/8/2014 | <0.0010 | 130 | 5 | <0.17 | 17 | <0.10 | 12.0 | 280 | 200 | 1,200 | A01 |
| MW-4 | 10/15/2014 | 0.17 | 210 | <0.44 | <0.17 | 24 | <0.50 | 1.5 | 5,800 | <50 | 8,000 | |
| MW-4 | 6/17/2015 | 0.0027 | 210 | <0.44 | <0.17 | 51 | <0.10 | 1.9 | 2,100 | <50 | 2,400 | |

Note

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

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

Analytes

CaCO3 calcium carbonate
 NO3 nitrate
 NO2 nitrite
 NVOC non-volatile organic carbon
 RSK-175M Method RSK-175M for Methane
 310.1 EPA Method 310.1 for Total Alkalinity as CaCO3
 EPA Environmental Protection Agency
 300.0 EPA Method 300.0 for NO3 and Sulfate
 353.2 EPA Method 353.2 for NO2
 SM-4500SD Method SM-4500SD for Total Sulfide
 415.1 EPA Method 415.1 for NVOC
 SM-3500-FeE Method SM-3500-FeD for Iron (II) Species
 6010B EPA Method 6010B for Dissolved Iron and Total Manganese

Notes

A01 PQL's and MDL's are raised due to sample dilution.
 PQL practical quantitation limit
 MDL method detection limit
 A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
 A10 PQL's and MDL's were raised due to matrix interference.

ARCADIS

Attachment A

Field Data Sheets and General Procedures



GETTLER-RYAN INC.



TRANSMITTAL

June 26, 2015
G-R #385639

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

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: **Chevron Facility**
#351638/7124
10151 International Boulevard
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DESCRIPTION |
|---------|--|
| VIA PDF | Groundwater Monitoring and Sampling Data Package First Semi-Annual Event of June 17, 2015 |

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/351638 7124

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351638 / 7124
 Site Address: 10151 International Blvd.
 City: Oakland, CA

Job Number: 385639
 Event Date: 6/17/15 (inclusive)
 Sampler: SK

Well ID: MW- 1
 Well Diameter: 4 in.
 Total Depth: 29.80 ft.
 Depth to Water: 17.30 ft.
12.50 xVF = .66 = 8.25

Date Monitored: 6/17/15

| | | | | |
|-------------|------------|----------|----------|-----------|
| 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: 24.75 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.80

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 0650 Weather Conditions: clean
 Sample Time/Date: 0725 / 6/17/15 Water Color: clay Odor: Y / P
 Approx. Flow Rate: 1-2 gpm. Sediment Description: clay
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 19.52

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µS / mS / µmhos/cm) | Temperature (°C / °F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|-----------------------------------|-----------------------|------------------|------------------|
| <u>0654</u> | <u>8</u> | <u>7.49</u> | <u>547</u> | <u>18.6</u> | PRE: <u>1.0</u> | PRE: <u>119</u> |
| <u>0658</u> | <u>16</u> | <u>7.37</u> | <u>559</u> | <u>18.5</u> | | |
| <u>0703</u> | <u>25</u> | <u>7.31</u> | <u>573</u> | <u>18.3</u> | POST: <u>1.2</u> | POST: <u>140</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|------------------|---------|---------------|------------|---|
| MW- 1 | 6 x voa vial | YES | HCL | BC LABS | TPH-GRO(8015)/BTEx+MTBE(8260)/8 OXYS(8260) |
| | 1 x 1 liter poly | YES | NP | BC LABS | NITRATE/NITRITE/SULFATE/ALKALINITY/DISSOLVED IRON |
| | 1 x 500ml poly | YES | ZnAc | BC LABS | SULFIDE(376.2) |
| | 1 x 500ml amber | YES | H2SO4 | BC LABS | TOC |
| | 1 x 250ml poly | YES | HCL | BC LABS | FERROUS IRON |
| | 1 x 500ml poly | YES | HNO3 | BC LABS | TOTAL MANGANESE |
| | 2 x voa vial | YES | NP | BC LABS | METHANE |

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 #351638 / 7124
 Site Address: 10151 International Blvd.
 City: Oakland, CA

Job Number: 385639
 Event Date: 6/17/15 (inclusive)
 Sampler: SH

Well ID: MW- 2
 Well Diameter: 4 in.
 Total Depth: 25.24 ft.
 Depth to Water: 18.55 ft.
6.69 xVF .66 = 4.41

Date Monitored: 6/17/15

| | | | | |
|-------------|------------|----------|----------|-----------|
| 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: 13.24 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.88

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 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: | _____ ltr |
| Amt Removed from Well: | _____ ltr |
| Water Removed: | _____ ltr |

Start Time (purge): 0550
 Sample Time/Date: 0625 / 6/17/15
 Approx. Flow Rate: 1 gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: Cloudy
 Water Color: Cloudy Odor: Y / N
 Sediment Description: Cloudy
 Volume: _____ gal. DTW @ Sampling: 19.97

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µS / mS / cmhos/cm) | Temperature (°C / F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|-----------------------------------|----------------------|------------------|------------------|
| <u>0554</u> | <u>4</u> | <u>7.64</u> | <u>498</u> | <u>18.6</u> | <u>PRE: 1.2</u> | <u>PRE: 138</u> |
| <u>0558</u> | <u>8</u> | <u>7.69</u> | <u>507</u> | <u>18.4</u> | | |
| <u>0603</u> | <u>13</u> | <u>7.73</u> | <u>515</u> | <u>18.3</u> | <u>POST: 1.4</u> | <u>POST: 155</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|-------------------------|---------|---------------|------------|---|
| MW- 2 | <u>6</u> x voa vial | YES | HCL | BC LABS | TPH-GRO(8015)/BTX+MTBE(8260)/8 OXYS(8260) |
| | <u>1</u> x 1 liter poly | YES | NP | BC LABS | NITRATE/NITRITE/SULFATE/ALKALINITY/DISSOLVED IRON |
| | <u>1</u> x 500ml poly | YES | ZnAc | BC LABS | SULFIDE(376.2) |
| | <u>1</u> x 500ml amber | YES | H2SO4 | BC LABS | TOC |
| | <u>1</u> x 250ml poly | YES | HCL | BC LABS | FERROUS IRON |
| | <u>1</u> x 500ml poly | YES | HNO3 | BC LABS | TOTAL MANGANESE |
| | <u>2</u> x voa vial | YES | NP | BC LABS | METHANE |

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 #351638 / 7124
 Site Address: 10151 International Blvd.
 City: Oakland, CA

Job Number: 385639
 Event Date: 6/17/15 (inclusive)
 Sampler: 34

Well ID: MW-3
 Well Diameter: 4 in.
 Total Depth: 25.18 ft.
 Depth to Water: 18.34 ft.
6.84 xVF = .66 = 4.51

Date Monitored: 6/17/15

| | | | | |
|-------------|------------|----------|----------|-----------|
| 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: 13.54 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.70

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 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: _____ ltr |
| Amt Removed from Well: _____ ltr |
| Water Removed: _____ ltr |

Start Time (purge): 0740
 Sample Time/Date: 0820 / 6/17/15
 Approx. Flow Rate: 1 gpm.
 Did well de-water? No If yes, Time: _____

Weather Conditions: Clean
 Water Color: Cloudy Odor: YDN
 Sediment Description: Cloudy
 Volume: _____ gal. DTW @ Sampling: 19.41

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µS/mS µmhos/cm) | Temperature (°C / °F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|-------------------------------|-----------------------|------------------|------------------|
| <u>0744</u> | <u>4</u> | <u>7.29</u> | <u>584</u> | <u>18.7</u> | PRE: <u>1.3</u> | PRE: <u>106</u> |
| <u>0748</u> | <u>8</u> | <u>7.21</u> | <u>611</u> | <u>18.4</u> | | |
| <u>0754</u> | <u>14</u> | <u>7.06</u> | <u>642</u> | <u>18.3</u> | POST: <u>1.4</u> | POST: <u>128</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|------------------|---------|---------------|------------|---|
| MW-3 | 6 x voa vial | YES | HCL | BC LABS | TPH-GRO(8015)/BTX+MTBE(8260)/8 OXYS(8260) |
| | 1 x 1 liter poly | YES | NP | BC LABS | NITRATE/NITRITE/SULFATE/ALKALINITY/DISSOLVED IRON |
| | 1 x 500ml poly | YES | ZnAc | BC LABS | SULFIDE(376.2) |
| | 1 x 500ml amber | YES | H2SO4 | BC LABS | TOC |
| | 1 x 250ml poly | YES | HCL | BC LABS | FERROUS IRON |
| | 1 x 500ml poly | YES | HNO3 | BC LABS | TOTAL MANGANESE |
| | 2 x voa vial | YES | NP | BC LABS | METHANE |

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 #351638 / 7124
 Site Address: 10151 International Blvd.
 City: Oakland, CA

Job Number: 385639
 Event Date: 6/17/15 (inclusive)
 Sampler: 311

Well ID: MW-4
 Well Diameter: 4 in.
 Total Depth: 24.91 ft.
 Depth to Water: 19.04 ft.
5.87 xVF = .66 = 3.87

Date Monitored: 6/17/15

| | | | | |
|-------------|------------|----------|----------|-----------|
| 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: 11.62 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.21

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 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: | _____ ltr |
| Amt Removed from Well: | _____ ltr |
| Water Removed: | _____ ltr |

Start Time (purge): 0500
 Sample Time/Date: 0525 / 6/17/15
 Approx. Flow Rate: 1 gpm.
 Did well de-water? No If yes, Time: _____

Weather Conditions: cloudy
 Water Color: cloudy Odor: Y / 0
 Sediment Description: cloudy
 Volume: _____ gal. DTW @ Sampling: 19.65

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µS / mS / µmhos/cm) | Temperature (°C / °F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|-----------------------------------|-----------------------|------------------|------------------|
| <u>0504</u> | <u>4</u> | <u>7.84</u> | <u>438</u> | <u>18.5</u> | PRE: <u>1.1</u> | PRE: <u>136</u> |
| <u>0508</u> | <u>8</u> | <u>7.70</u> | <u>431</u> | <u>18.4</u> | | |
| <u>0512</u> | <u>12</u> | <u>7.61</u> | <u>420</u> | <u>18.1</u> | POST: <u>1.4</u> | POST: <u>155</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-----------|------------------|---------|---------------|------------|---|
| MW-4 | 6 x voa vial | YES | HCL | BC LABS | TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260) |
| | 1 x 1 liter poly | YES | NP | BC LABS | NITRATE/NITRITE/SULFATE/ALKALINITY/DISSOLVED IRON |
| | 1 x 500ml poly | YES | ZnAc | BC LABS | SULFIDE(376.2) |
| | 1 x 500ml amber | YES | H2SO4 | BC LABS | TOC |
| | 1 x 250ml poly | YES | HCL | BC LABS | FERROUS IRON |
| | 1 x 500ml poly | YES | HNO3 | BC LABS | TOTAL MANGANESE |
| | 2 x voa vial | YES | NP | BC LABS | METHANE |

COMMENTS:

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

ARCADIS

Attachment B

Historical Groundwater Results from TRC

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

76 Station 7124

| 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 | | | | | | | | | | | | | | |
| 4/8/2002 | 37.37 | 14.27 | 0.00 | 23.10 | -- | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.5 | ND<2.0 | |
| 7/28/2002 | 37.37 | 15.88 | 0.00 | 21.49 | -1.61 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 11/3/2002 | 37.37 | 16.75 | 0.00 | 20.62 | -0.87 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 1/24/2003 | 37.37 | 13.94 | 0.00 | 23.43 | 2.81 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 4/2/2003 | 37.37 | 14.99 | 0.00 | 22.38 | -1.05 | -- | 460 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 7/1/2003 | 37.37 | 15.48 | 0.00 | 21.89 | -0.49 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 10/2/2003 | 37.37 | 16.68 | 0.00 | 20.69 | -1.20 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<2.0 | |
| 1/9/2004 | 37.37 | 13.79 | 0.00 | 23.58 | 2.89 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1 | -- | ND<2 | |
| 4/26/2004 | 37.37 | 15.21 | 0.00 | 22.16 | -1.42 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 7/22/2004 | 37.37 | 16.43 | 0.00 | 20.94 | -1.22 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.50 | |
| 10/29/2004 | 37.37 | 16.14 | 0.00 | 21.23 | 0.29 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.51 | |
| 1/12/2005 | 37.37 | 12.83 | 0.00 | 24.54 | 3.31 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.52 | |
| 6/20/2005 | 37.37 | 14.38 | 0.00 | 22.99 | -1.55 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.53 | |
| 9/23/2005 | 37.37 | 15.92 | 0.00 | 21.45 | -1.54 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.54 | |
| 12/13/2005 | 37.37 | 16.09 | 0.00 | 21.28 | -0.17 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.55 | |
| 3/24/2006 | 37.37 | 11.85 | 0.00 | 25.52 | 4.24 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.56 | |
| 5/30/2006 | 37.37 | 13.30 | 0.00 | 24.07 | -1.45 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.57 | |
| 8/22/2006 | 37.37 | 15.11 | 0.00 | 22.26 | -1.81 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.58 | |
| 10/31/2006 | 37.37 | 16.11 | 0.00 | 21.26 | -1.00 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.59 | |
| 1/12/2007 | 37.37 | 15.55 | 0.00 | 21.82 | 0.56 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.60 | |
| 4/4/2007 | 37.37 | 15.31 | 0.00 | 22.06 | 0.24 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.61 | |
| 7/5/2007 | 37.37 | 16.21 | 0.00 | 21.16 | -0.90 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.62 | |
| 10/1/2007 | 37.37 | 17.13 | 0.00 | 20.24 | -0.92 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | ND<0.63 | |
| 1/11/2008 | 37.37 | 14.48 | 0.00 | 22.89 | 2.65 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.64 | |
| 4/4/2008 | 37.37 | 16.17 | 0.00 | 21.20 | -1.69 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.65 | Gauged on 5-22-08 |
| 7/2/2008 | 37.37 | 16.70 | 0.00 | 20.67 | -0.53 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.66 | |
| 10/2/2008 | 37.37 | 17.50 | 0.00 | 19.87 | -0.80 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.67 | |
| 1/14/2009 | 37.37 | 17.30 | 0.00 | 20.07 | 0.20 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.68 | |
| 4/16/2009 | 37.37 | 15.60 | 0.00 | 21.77 | 1.70 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.69 | |
| 7/16/2009 | 37.37 | 16.90 | 0.00 | 20.47 | -1.30 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.70 | |
| 1/6/2010 | 37.37 | 16.35 | 0.00 | 21.02 | 0.55 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | ND<0.71 | |
| MW-2 | | | | | | | | | | | | | | |
| 4/8/2002 | 37.87 | 15.86 | 0.00 | 22.01 | -- | 4400 | -- | ND<2.5 | ND<2.5 | 6.4 | ND<2.5 | 380 | 490 | |
| 7/28/2002 | 37.87 | 17.28 | 0.00 | 20.59 | -1.42 | -- | 3200 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 170 | |
| 11/3/2002 | 37.87 | 18.03 | 0.00 | 19.84 | -0.75 | -- | 3800 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 72 | |
| 1/24/2003 | 37.87 | 15.59 | 0.00 | 22.28 | 2.44 | -- | 410 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 490 | |
| 4/2/2003 | 37.87 | 16.50 | 0.00 | 21.37 | -0.91 | -- | 1000 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 180 | |
| 7/1/2003 | 37.87 | 16.94 | 0.00 | 20.93 | -0.44 | -- | 1900 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 120 | |
| 10/2/2003 | 37.87 | 17.93 | 0.00 | 19.94 | -0.99 | -- | 6900 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 32 | |
| 1/9/2004 | 37.87 | 15.42 | 0.00 | 22.45 | 2.51 | -- | 1000 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 300 | |

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

76 Station 7124

| 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 |
|--------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------------|-------------------|----------------------|----------------|----------------|----------------------|----------------------|---------------------|---------------------|-------------------------------|
| 4/26/2004 | 37.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Covered with asphalt |
| 7/22/2004 | 37.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Covered with asphalt |
| 10/29/2004 | 37.87 | -- | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well is paved over. |
| 1/12/2005 | 37.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Well was paved over. |
| 6/20/2005 | 37.87 | 15.94 | 0.00 | 21.93 | -- | -- | 120 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 46 | |
| 9/23/2005 | 37.87 | 17.29 | 0.00 | 20.58 | -1.35 | -- | 120 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 10 | |
| 12/13/2005 | 37.87 | 17.41 | 0.00 | 20.46 | -0.12 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 11 | |
| 3/24/2006 | 37.87 | 13.77 | 0.00 | 24.10 | 3.64 | -- | 190 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 15 | |
| 5/30/2006 | 37.87 | 15.16 | 0.00 | 22.71 | -1.39 | -- | 120 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 6.6 | |
| 8/22/2006 | 37.87 | 16.49 | 0.00 | 21.38 | -1.33 | -- | 81 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 3.0 | |
| 10/31/2006 | 37.87 | 17.15 | 0.00 | 20.72 | -0.66 | -- | 93 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 2.0 | |
| 1/12/2007 | 37.87 | 17.07 | 0.00 | 20.80 | 0.08 | -- | 230 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 4.3 | |
| 4/4/2007 | 37.87 | 17.84 | 0.00 | 20.03 | -0.77 | -- | 110 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 2.5 | |
| 7/5/2007 | 37.87 | 17.51 | 0.00 | 20.36 | 0.33 | -- | 150 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 2.6 | |
| 10/1/2007 | 37.87 | 18.25 | 0.00 | 19.62 | -0.74 | -- | 160 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 2.0 | |
| 1/11/2008 | 37.87 | 16.80 | 0.00 | 21.07 | 1.45 | -- | 130 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 7.7 | |
| 5/22/2008 | 37.87 | 17.46 | 0.00 | 20.41 | -0.66 | -- | 140 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 4.2 | Gauged and sampled on 5-22-08 |
| 7/2/2008 | 37.87 | 17.94 | 0.00 | 19.93 | -0.48 | -- | 75 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.4 | |
| 10/2/2008 | 37.87 | 18.65 | 0.00 | 19.22 | -0.71 | -- | 130 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.1 | |
| 1/14/2009 | 37.87 | 18.40 | 0.00 | 19.47 | 0.25 | -- | 66 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.5 | |
| 4/16/2009 | 37.87 | 16.94 | 0.00 | 20.93 | 1.46 | -- | 93 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.2 | |
| 7/16/2009 | 37.87 | 18.15 | 0.00 | 19.72 | -1.21 | -- | 92 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 1.6 | |
| 1/6/2010 | 37.87 | 17.68 | 0.00 | 20.19 | 0.47 | -- | 150 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.0 | |
| MW-3 | | | | | | | | | | | | | | |
| 4/8/2002 | 37.72 | 15.86 | 0.00 | 21.86 | -- | 8700 | -- | 65 | ND<25 | 400 | ND<25 | 6500 | 8300 | |
| 7/28/2002 | 37.72 | 17.22 | 0.00 | 20.50 | -1.36 | -- | 4500 | ND<25 | ND<25 | ND<25 | ND<50 | -- | 1100 | |
| 11/3/2002 | 37.72 | 17.90 | 0.00 | 19.82 | -0.68 | -- | 25000 | ND<5.0 | ND<5.0 | 25 | ND<10 | -- | 470 | |
| 1/24/2003 | 37.72 | 15.57 | 0.00 | 22.15 | 2.33 | -- | 6000 | ND<25 | ND<25 | 94 | ND<50 | -- | 10000 | |
| 4/2/2003 | 37.72 | 16.45 | 0.00 | 21.27 | -0.88 | -- | 130000 | ND<100 | ND<100 | ND<100 | ND<200 | -- | 4400 | |
| 7/1/2003 | 37.72 | 16.88 | 0.00 | 20.84 | -0.43 | -- | 9400 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 2200 | |
| 10/2/2003 | 37.72 | 17.85 | 0.00 | 19.87 | -0.97 | -- | 73000 | ND<50 | ND<50 | ND<50 | ND<100 | -- | 460 | |
| 1/9/2004 | 37.72 | 15.31 | 0.00 | 22.41 | 2.54 | -- | 8700 | ND<25 | ND<25 | 98 | ND<50 | -- | 3800 | |
| 4/26/2004 | 37.72 | 16.62 | 0.00 | 21.10 | -1.31 | -- | 6700 | ND<25 | ND<25 | ND<25 | ND<50 | -- | 3900 | |
| 7/22/2004 | 37.72 | 17.62 | 0.00 | 20.10 | -1.00 | -- | 13000 | ND<25 | ND<25 | ND<25 | ND<50 | -- | 980 | |
| 10/29/2004 | 37.72 | 17.29 | 0.00 | 20.43 | 0.33 | -- | 4600 | ND<5.0 | ND<5.0 | 13 | ND<10 | -- | 640 | |
| 1/12/2005 | 37.72 | 14.64 | 0.00 | 23.08 | 2.65 | -- | 6100 | 0.88 | 0.99 | 30 | 2.2 | -- | 6900 | |
| 6/20/2005 | 37.72 | 15.91 | 0.00 | 21.81 | -1.27 | -- | 1900 | ND<0.50 | 0.21J | 0.52 | 0.46J | -- | 960 | |
| 9/23/2005 | 37.72 | 17.20 | 0.00 | 20.52 | -1.29 | -- | 2400 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 160 | |
| 12/13/2005 | 37.72 | 17.32 | 0.00 | 20.40 | -0.12 | -- | 2100 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 340 | |
| 3/24/2006 | 37.72 | 13.86 | 0.00 | 23.86 | 3.46 | -- | 2200 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 970 | |
| 5/30/2006 | 37.72 | 15.69 | 0.00 | 22.03 | -1.83 | -- | 1500 | ND<12 | ND<12 | ND<12 | ND<25 | -- | 760 | |

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

76 Station 7124

| Date Sampled | TOC Elevation (feet) | Depth to Water (feet) | LPH Thickness (feet) | Ground-Water Elevation (feet) | Change in Elevation (feet) | TPH-G 8015 (µg/l) | TPH-G (GC/MS) (µg/l) | Benzene (µg/l) | Toluene (µg/l) | Ethyl-benzene (µg/l) | Total Xylenes (µg/l) | MTBE (8021B) (µg/l) | MTBE (8260B) (µg/l) | Comments |
|--------------|----------------------|-----------------------|----------------------|-------------------------------|----------------------------|-------------------|----------------------|----------------|----------------|----------------------|----------------------|---------------------|---------------------|-------------------------------|
| 8/22/2006 | 37.72 | 16.51 | 0.00 | 21.21 | -0.82 | -- | 1900 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 160 | |
| 10/31/2006 | 37.72 | 17.36 | 0.00 | 20.36 | -0.85 | -- | 2200 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 58 | |
| 1/12/2007 | 37.72 | 16.85 | 0.00 | 20.87 | 0.51 | -- | 2600 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 680 | |
| 4/4/2007 | 37.72 | 16.62 | 0.00 | 21.10 | 0.23 | -- | 1700 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 650 | |
| 7/5/2007 | 37.72 | 17.42 | 0.00 | 20.30 | -0.80 | -- | 2400 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 160 | |
| 10/1/2007 | 37.72 | 18.16 | 0.00 | 19.56 | -0.74 | -- | 1700 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | -- | 87 | |
| 1/11/2008 | 37.72 | 15.84 | 0.00 | 21.88 | 2.32 | -- | 2200 | ND<0.50 | ND<0.50 | 1.6 | ND<1.0 | -- | 1300 | |
| 4/4/2008 | 37.72 | 17.30 | 0.00 | 20.42 | -1.46 | -- | 1600 | ND<1.0 | ND<1.0 | ND<1.0 | ND<2.0 | -- | 470 | Gauged on 5-22-08 |
| 7/2/2008 | 37.72 | 17.84 | 0.00 | 19.88 | -0.54 | -- | 1200 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 91 | |
| 10/2/2008 | 37.72 | 18.50 | 0.00 | 19.22 | -0.66 | -- | 2100 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 84 | |
| 1/14/2009 | 37.72 | 18.33 | 0.00 | 19.39 | 0.17 | -- | 2000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 320 | |
| 4/16/2009 | 37.72 | 16.92 | 0.00 | 20.80 | 1.41 | -- | 1800 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 560 | |
| 7/16/2009 | 37.72 | 18.05 | 0.00 | 19.67 | -1.13 | -- | 1900 | ND<5.0 | ND<5.0 | ND<5.0 | ND<10 | -- | 100 | |
| 1/6/2010 | 37.72 | 17.65 | 0.00 | 20.07 | 0.40 | -- | 2200 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 1300 | |
| MW-4 | | | | | | | | | | | | | | |
| 4/8/2002 | 38.36 | 16.59 | 0.00 | 21.77 | -- | 13000 | -- | ND<5.0 | ND<5.0 | 28 | ND<5.0 | 790 | 980 | |
| 7/28/2002 | 38.36 | 17.93 | 0.00 | 20.43 | -1.34 | -- | 18000 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 170 | |
| 11/3/2002 | 38.36 | 18.66 | 0.00 | 19.70 | -0.73 | -- | 220 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 5.7 | |
| 1/24/2003 | 38.36 | 16.27 | 0.00 | 22.09 | 2.39 | -- | ND<1000 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 1000 | |
| 4/2/2003 | 38.36 | 17.19 | 0.00 | 21.17 | -0.92 | -- | 130000 | ND<100 | ND<100 | ND<100 | ND<200 | -- | ND<400 | |
| 7/1/2003 | 38.36 | 17.61 | 0.00 | 20.75 | -0.42 | -- | 15000 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 170 | |
| 10/2/2003 | 38.36 | 18.58 | 0.00 | 19.78 | -0.97 | -- | 7100 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 70 | |
| 1/9/2004 | 38.36 | 16.15 | 0.00 | 22.21 | 2.43 | -- | 18000 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 530 | |
| 4/26/2004 | 38.36 | 17.20 | 0.00 | 21.16 | -1.05 | -- | 6500 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 240 | |
| 7/22/2004 | 38.36 | 18.34 | 0.00 | 20.02 | -1.14 | -- | 18000 | ND<10 | ND<10 | ND<10 | ND<20 | -- | 48 | |
| 10/29/2004 | 38.36 | 18.13 | 0.00 | 20.23 | 0.21 | -- | 2700 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 76 | |
| 1/12/2005 | 38.36 | 15.22 | 0.00 | 23.14 | 2.91 | -- | 1300 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 620 | |
| 6/20/2005 | 38.36 | 16.63 | 0.00 | 21.73 | -1.41 | -- | 980 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 110 | |
| 9/23/2005 | 38.36 | 17.93 | 0.00 | 20.43 | -1.30 | -- | 1500 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 34 | |
| 12/13/2005 | 38.36 | 18.04 | 0.00 | 20.32 | -0.11 | -- | 3900 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 36 | |
| 3/24/2006 | 38.36 | 14.48 | 0.00 | 23.88 | 3.56 | -- | 1500 | ND<12 | ND<12 | ND<12 | ND<25 | -- | 200 | |
| 5/30/2006 | 38.36 | 15.79 | 0.00 | 22.57 | -1.31 | -- | 1200 | ND<2.5 | ND<2.5 | ND<2.5 | ND<5.0 | -- | 130 | |
| 8/22/2006 | 38.36 | 17.26 | 0.00 | 21.10 | -1.47 | -- | 980 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 33 | |
| 10/31/2006 | 38.36 | 18.08 | 0.00 | 20.28 | -0.82 | -- | 1300 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 10 | |
| 1/12/2007 | 38.36 | 17.57 | 0.00 | 20.79 | 0.51 | -- | 820 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 28 | |
| 4/4/2007 | 38.36 | 17.40 | 0.00 | 20.96 | 0.17 | -- | 460 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 41 | |
| 7/5/2007 | 38.36 | 18.02 | 0.00 | 20.34 | -0.62 | -- | 920 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 7.0 | |
| 10/1/2007 | 38.36 | 18.89 | 0.00 | 19.47 | -0.87 | -- | 560 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | -- | 3.0 | |
| 1/11/2008 | 38.36 | 16.56 | 0.00 | 21.80 | 2.33 | -- | 340 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 21 | |
| 5/22/2008 | 38.36 | 18.10 | 0.00 | 20.26 | -1.54 | -- | 520 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 5.6 | Gauged and sampled on 5-22-08 |
| 7/2/2008 | 38.36 | 18.55 | 0.00 | 19.81 | -0.45 | -- | 340 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.3 | |

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

76 Station 7124

| 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 |
|-----------------|----------------------------|-----------------------------|----------------------------|---|----------------------------------|-------------------------|----------------------------|-------------------|-------------------|-----------------------------|----------------------------|---------------------------|---------------------------|----------|
| 10/2/2008 | 38.36 | 19.25 | 0.00 | 19.11 | -0.70 | -- | 790 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.4 | |
| 1/14/2009 | 38.36 | 19.10 | 0.00 | 19.26 | 0.15 | -- | 430 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.4 | |
| 4/16/2009 | 38.36 | 17.61 | 0.00 | 20.75 | 1.49 | -- | 390 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 16 | |
| 7/16/2009 | 38.36 | 18.70 | 0.00 | 19.66 | -1.09 | -- | 310 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 3.2 | |
| 1/6/2010 | 38.36 | 18.28 | 0.00 | 20.08 | 0.42 | -- | 380 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 2.4 | |

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7124

| Date Sampled | TBA (µg/l) | Ethanol (8015B) (mg/l) | Ethanol (8260B) (µg/l) | Ethylene- dibromide (EDB) (µg/l) | 1,2-DCA (EDC) (µg/l) | DIPE (µg/l) | ETBE (µg/l) | TAME (µg/l) | Comments |
|--------------|---------------|------------------------------|------------------------------|---|----------------------------|----------------|----------------|----------------|----------|
| MW-1 | | | | | | | | | |
| 7/28/2002 | ND<100 | ND<500 | -- | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | |
| 11/3/2002 | ND<100 | ND<500 | -- | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | |
| 1/24/2003 | ND<100 | ND<500 | -- | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | |
| 4/2/2003 | ND<100 | ND<500 | -- | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | |
| 7/1/2003 | ND<100 | ND<500 | -- | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | |
| 10/2/2003 | ND<100 | -- | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | |
| 1/9/2004 | ND<100 | -- | ND<500 | ND<2 | ND<2.0 | ND<2 | ND<2 | ND<2 | |
| 4/26/2004 | ND<5.0 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<0.50 | |
| 7/22/2004 | ND<5.0 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<0.50 | |
| 10/29/2004 | ND<5.0 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<0.50 | |
| 1/12/2005 | ND<5.0 | -- | ND<50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<0.50 | |
| 6/20/2005 | ND<10 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 9/23/2005 | ND<10 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 12/13/2005 | ND<10 | -- | ND<250 | 21.449999 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 3/24/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 5/30/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 8/22/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/31/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/12/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/4/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/5/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/1/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/11/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/4/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/2/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/2/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/14/2009 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/16/2009 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/16/2009 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/6/2010 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| MW-2 | | | | | | | | | |
| 4/8/2002 | ND<2000 | ND<10000 | -- | ND<40 | ND<40 | ND<40 | ND<40 | ND<40 | |
| 7/28/2002 | ND<500 | ND<2500 | -- | ND<10 | ND<10 | ND<10 | ND<10 | ND<10 | |
| 11/3/2002 | ND<1000 | ND<5000 | -- | ND<20 | ND<20 | ND<20 | ND<20 | ND<20 | |

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7124

| Date Sampled | TBA (µg/l) | Ethanol (8015B) (mg/l) | Ethanol (8260B) (µg/l) | Ethylene- dibromide (EDB) (µg/l) | 1,2-DCA (EDC) (µg/l) | DIPE (µg/l) | ETBE (µg/l) | TAME (µg/l) | Comments |
|--------------|---------------|------------------------------|------------------------------|---|----------------------------|----------------|----------------|----------------|----------|
| 1/24/2003 | ND<500 | ND<2500 | -- | ND<10 | ND<10 | ND<10 | ND<10 | ND<10 | |
| 4/2/2003 | ND<1000 | ND<5000 | -- | ND<20 | ND<20 | ND<20 | ND<20 | ND<20 | |
| 7/1/2003 | ND<500 | ND<2500 | -- | ND<10 | ND<10 | ND<10 | ND<10 | ND<10 | |
| 10/2/2003 | ND<100 | -- | ND<500 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | |
| 1/9/2004 | ND<500 | -- | ND<2500 | ND<10 | ND<10 | ND<10 | ND<10 | ND<10 | |
| 6/20/2005 | 25 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 9/23/2005 | ND<10 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 12/13/2005 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 3/24/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 5/30/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 8/22/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/31/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/12/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/4/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/5/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/1/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/11/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 5/22/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/2/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/2/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/14/2009 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/16/2009 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/16/2009 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/6/2010 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| MW-3 | | | | | | | | | |
| 10/2/2003 | ND<10000 | -- | ND<50000 | ND<200 | ND<200 | ND<200 | ND<200 | ND<200 | |
| 1/9/2004 | ND<5000 | -- | ND<25000 | ND<100 | ND<100 | ND<100 | ND<100 | ND<100 | |
| 4/26/2004 | ND<250 | -- | ND<2500 | ND<25 | ND<25 | ND<50 | ND<25 | ND<25 | |
| 7/22/2004 | ND<250 | -- | ND<2500 | ND<25 | ND<25 | ND<50 | ND<25 | ND<25 | |
| 10/29/2004 | ND<50 | -- | ND<500 | ND<5.0 | ND<5.0 | ND<10 | ND<5.0 | ND<5.0 | |
| 1/12/2005 | 1300 | -- | ND<2500 | ND<25 | ND<25 | ND<50 | ND<25 | ND<25 | |
| 6/20/2005 | 39 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0.31J | |
| 9/23/2005 | ND<10 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 12/13/2005 | ND<50 | -- | ND<1200 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | |
| 3/24/2006 | ND<100 | -- | ND<2500 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | |

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7124

| Date Sampled | TBA (µg/l) | Ethanol (8015B) (mg/l) | Ethanol (8260B) (µg/l) | Ethylene- dibromide (EDB) (µg/l) | 1,2-DCA (EDC) (µg/l) | DIPE (µg/l) | ETBE (µg/l) | TAME (µg/l) | Comments |
|--------------|---------------|------------------------------|------------------------------|---|----------------------------|----------------|----------------|----------------|----------|
| 5/30/2006 | ND<250 | -- | ND<6200 | ND<12 | ND<12 | ND<12 | ND<12 | ND<12 | |
| 8/22/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/31/2006 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/12/2007 | 43 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/4/2007 | 130 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/5/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/1/2007 | ND<20 | -- | ND<500 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 1/11/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/4/2008 | ND<20 | -- | ND<500 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 7/2/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/2/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/14/2009 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/16/2009 | ND<50 | -- | ND<1200 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | |
| 7/16/2009 | ND<100 | -- | ND<2500 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | ND<5.0 | |
| 1/6/2010 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| MW-4 | | | | | | | | | |
| 4/8/2002 | ND<5000 | ND<25000 | -- | ND<100 | ND<100 | ND<100 | ND<100 | ND<100 | |
| 7/28/2002 | ND<500 | ND<2500 | -- | ND<10 | ND<10 | ND<10 | ND<10 | ND<10 | |
| 11/3/2002 | ND<100 | ND<500 | -- | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | |
| 1/24/2003 | ND<2000 | ND<10000 | -- | ND<40 | ND<40 | ND<40 | ND<40 | ND<40 | |
| 4/2/2003 | ND<20000 | ND<100000 | -- | ND<400 | ND<400 | ND<400 | ND<400 | ND<400 | |
| 7/1/2003 | ND<500 | ND<2500 | -- | ND<10 | ND<10 | ND<10 | ND<10 | ND<10 | |
| 10/2/2003 | ND<2000 | -- | ND<10000 | ND<40 | ND<40 | ND<40 | ND<40 | ND<40 | |
| 1/9/2004 | ND<2000 | -- | ND<10000 | ND<40 | ND<40 | ND<40 | ND<40 | ND<40 | |
| 4/26/2004 | 430 | -- | ND<1000 | ND<10 | ND<10 | ND<20 | ND<10 | ND<10 | |
| 7/22/2004 | ND<100 | -- | ND<1000 | ND<10 | ND<10 | ND<20 | ND<10 | ND<10 | |
| 10/29/2004 | 63 | -- | ND<250 | ND<2.5 | ND<2.5 | ND<5.0 | ND<2.5 | ND<2.5 | |
| 1/12/2005 | 1300 | -- | ND<250 | ND<10 | ND<2.5 | ND<5.0 | ND<2.5 | ND<2.5 | |
| 6/20/2005 | 580 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 9/23/2005 | 92 | -- | ND<1000 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 12/13/2005 | 50 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 3/24/2006 | 1900 | -- | ND<6200 | ND<12 | ND<12 | ND<12 | ND<12 | ND<12 | |
| 5/30/2006 | ND<50 | -- | ND<1200 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | |
| 8/22/2006 | 150 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/31/2006 | 43 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7124

| Date Sampled | TBA (µg/l) | Ethanol (8015B) (mg/l) | Ethanol (8260B) (µg/l) | Ethylene-dibromide (EDB) (µg/l) | 1,2-DCA (EDC) (µg/l) | DIPE (µg/l) | ETBE (µg/l) | TAME (µg/l) | Comments |
|--------------|------------|------------------------|------------------------|---------------------------------|----------------------|-------------|-------------|-------------|----------|
| 1/12/2007 | 72 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/4/2007 | 260 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/5/2007 | 18 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/1/2007 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/11/2008 | 140 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 5/22/2008 | 52 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/2/2008 | 15 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 10/2/2008 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/14/2009 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 4/16/2009 | 170 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 7/16/2009 | 20 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |
| 1/6/2010 | ND<10 | -- | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | |

ARCADIS

Attachment C

Laboratory Report and Chain-of-Custody Documentation



Date of Report: 07/01/2015

Kathy Brandt

Arcadis

2000 Powell Street 7th Floor
Emeryville, CA 94608

Client Project: 351638
BCL Project: 7124
BCL Work Order: 1514902
Invoice ID: B207216

Enclosed are the results of analyses for samples received by the laboratory on 6/17/2015. 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; OR ELAP #4032-001; AK UST101

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 1

Submission #: 15-14902

| | | | | | |
|--|------------------------------|--|--|--|--|
| SHIPPING INFORMATION | | SHIPPING CONTAINER | | FREE LIQUID | |
| Fed Ex <input type="checkbox"/> | UPS <input type="checkbox"/> | Ontrac <input type="checkbox"/> | Hand Delivery <input type="checkbox"/> | Ice Chest <input checked="" type="checkbox"/> | None <input type="checkbox"/> Box <input type="checkbox"/> |
| BC Lab Field Service <input checked="" type="checkbox"/> | | Other <input type="checkbox"/> (Specify) _____ | | Other <input type="checkbox"/> (Specify) _____ | |

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

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

COC Received YES NO Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 6/17/15
 Temperature: (A) 0.5 °C / (C) 0.6 °C Analyst Init KIB

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|--|----------------|-----|-----|-----|-----|---|---|---|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | J | J | J | J | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz Cr ⁶ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | J | J | J | J | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | L | L | L | L | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | M | M | M | M | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | AO | | | | | | | | | |
| 40ml VOA VIAL | | A-F | A-F | A-F | A-F | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL-304 <u>175</u> | | GM | GM | GM | GM | | | | | |
| QT EPA 508/608/8080 | | | | | | | | | | |
| QT EPA 515.1/8150 | | | | | | | | | | |
| QT EPA 525 | | | | | | | | | | |
| QT EPA 525 TRAVEL BLANK | | | | | | | | | | |
| 40ml EPA 547 | | | | | | | | | | |
| 40ml EPA 531.1 | | | | | | | | | | |
| 8oz Amber EPA 548 | | | | | | | | | | |
| QT EPA 549 | | | | | | | | | | |
| QT EPA 8015M | | | | | | | | | | |
| 8oz / 16oz / 32oz AMBER | | | | | | | | | | |
| 8oz / 16oz / 32oz JAR | | | | | | | | | | |
| SOIL SLEEVE | | | | | | | | | | |
| PCB VIAL | | | | | | | | | | |
| PLASTIC BAG | | | | | | | | | | |
| Tedlar Bag | | | | | | | | | | |
| FERROUS IRON | | K | K | K | K | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| Summa Canister | | | | | | | | | | |

Comments: _____ Date/Time: 6-17-15 2350 Rev. No. 19 05/06/2015
 Sample Numbering Completed By: [Signature]
 A = Actual / C = Corrected

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

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

| | | |
|-------------------|--|--|
| 1514902-01 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: QA-W-150617 Sampled By: GRD | Receive Date: 06/17/2015 22:20 Sampling Date: 06/17/2015 00:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): QA Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

| | | |
|-------------------|--|---|
| 1514902-02 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: MW-1-W-150617 Sampled By: GRD | Receive Date: 06/17/2015 22:20 Sampling Date: 06/17/2015 07:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|---|

| | | |
|-------------------|--|---|
| 1514902-03 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: MW-2-W-150617 Sampled By: GRD | Receive Date: 06/17/2015 22:20 Sampling Date: 06/17/2015 06:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600173591 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: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

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

| | | |
|-------------------|--|--|
| 1514902-04 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: MW-3-W-150617 Sampled By: GRD | Receive Date: 06/17/2015 22:20 Sampling Date: 06/17/2015 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

| | | |
|-------------------|--|--|
| 1514902-05 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: MW-4-W-150617 Sampled By: GRD | Receive Date: 06/17/2015 22:20 Sampling Date: 06/17/2015 05:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): MW-4 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1514902-01 | Client Sample Name: 7124, QA-W-150617, 6/17/2015 12:00:00AM |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------------|--------|-------|----------------------|-----|-----------|---------|-----------|-------|
| Benzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | | EPA-8260B | ND | | 1 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 85.6 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 98.2 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 90.4 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/22/15 | 06/22/15 11:51 | SE1 | MS-V10 | 1 | BYF2071 |

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Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|--|
| BCL Sample ID: 1514902-01 | Client Sample Name: 7124, QA-W-150617, 6/17/2015 12:00:00AM |
|----------------------------------|--|

| Constituent | Result | Units | PQL | MDL | 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) | 105 | % | 70 - 130 (LCL - UCL) | | EPA-8015B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B | 06/19/15 | 06/19/15 15:45 | AKM | GC-V9 | 1 | BYF1571 |

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-02 | Client Sample Name: 7124, MW-1-W-150617, 6/17/2015 7:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------------|--------|-------|----------------------|-----|-----------|---------|-----------|-------|
| Benzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | | EPA-8260B | ND | | 1 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 85.2 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 97.2 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 89.5 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/22/15 | 06/22/15 12:09 | SE1 | MS-V10 | 1 | BYF2071 |

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Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-02 | Client Sample Name: 7124, MW-1-W-150617, 6/17/2015 7:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | 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) | 100 | % | 70 - 130 (LCL - UCL) | | EPA-8015B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B | 06/19/15 | 06/19/15 16:26 | AKM | GC-V9 | 1 | BYF1571 |

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Gas Testing in Water

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-02 | Client Sample Name: 7124, MW-1-W-150617, 6/17/2015 7:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | 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 | 06/29/15 | 06/30/15 10:18 | JH2 | GC-V1 | 1 | BYF2548 |

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-02 | Client Sample Name: 7124, MW-1-W-150617, 6/17/2015 7:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------|--------|-------|------|-----|-------------|---------|-----------|-------|
| Total Alkalinity as CaCO3 | 170 | mg/L | 4.1 | | EPA-310.1 | ND | | 1 |
| Nitrate as NO3 | 28 | mg/L | 0.44 | | EPA-300.0 | ND | | 2 |
| Sulfate | 28 | mg/L | 1.0 | | EPA-300.0 | ND | | 2 |
| Iron (II) Species | ND | ug/L | 100 | | SM-3500-FeD | ND | | 3 |
| Nitrite as NO2 | ND | mg/L | 0.17 | | EPA-353.2 | ND | | 4 |
| Total Sulfide | ND | mg/L | 0.10 | | SM-4500SD | ND | | 5 |
| Non-Volatile Organic Carbon | ND | mg/L | 1.0 | | EPA-415.1 | ND | | 6 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-310.1 | 06/19/15 | 06/19/15 14:16 | RML | MET-1 | 1 | BYF1867 |
| 2 | EPA-300.0 | 06/18/15 | 06/18/15 11:37 | OLH | IC1 | 1 | BYF1752 |
| 3 | SM-3500-FeD | 06/18/15 | 06/18/15 07:43 | TDC | KONE-1 | 1 | BYF1811 |
| 4 | EPA-353.2 | 06/18/15 | 06/18/15 07:58 | TDC | KONE-1 | 1 | BYF1762 |
| 5 | SM-4500SD | 06/23/15 | 06/23/15 20:30 | DIW | SPEC05 | 1 | BYF2160 |
| 6 | EPA-415.1 | 06/19/15 | 06/19/15 15:48 | ALW | TOC2 | 1 | BYF1786 |

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-02 | Client Sample Name: 7124, MW-1-W-150617, 6/17/2015 7:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|------------------------|-------------|-------------|-----------|-----|------------------|-----------|-----------|----------|
| Dissolved Iron | ND | ug/L | 50 | | EPA-6010B | ND | | 1 |
| Total Manganese | 2900 | ug/L | 10 | | EPA-6010B | ND | | 2 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 06/19/15 | 06/22/15 | 16:12 | ARD | PE-OP3 | 1 | BYF1847 |
| 2 | EPA-6010B | 06/26/15 | 06/29/15 | 10:10 | ARD | PE-OP2 | 1 | BYF2482 |

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-03 | Client Sample Name: 7124, MW-2-W-150617, 6/17/2015 6:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------------|--------|-------|----------------------|-----|-----------|---------|-----------|-------|
| Benzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | | EPA-8260B | ND | | 1 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 84.2 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 96.1 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 96.3 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/22/15 | 06/22/15 12:28 | SE1 | MS-V10 | 1 | BYF2071 |

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Arcadis
2000 Powell Street 7th Floor
Emeryville, CA 94608

Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-03 | Client Sample Name: 7124, MW-2-W-150617, 6/17/2015 6:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | 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 | 06/19/15 | 06/19/15 16:46 | AKM | GC-V9 | 1 | BYF1571 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Gas Testing in Water

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-03 | Client Sample Name: 7124, MW-2-W-150617, 6/17/2015 6:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | 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 | 06/29/15 | 06/30/15 10:23 | JH2 | GC-V1 | 1 | BYF2548 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-03 | Client Sample Name: 7124, MW-2-W-150617, 6/17/2015 6:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------|--------|-------|------|-----|-------------|---------|-----------|-------|
| Total Alkalinity as CaCO3 | 210 | 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 |
| Iron (II) Species | 2500 | ug/L | 100 | | SM-3500-FeD | ND | | 3 |
| Nitrite as NO2 | ND | mg/L | 0.17 | | EPA-353.2 | ND | | 4 |
| Total Sulfide | ND | mg/L | 0.10 | | SM-4500SD | ND | | 5 |
| Non-Volatile Organic Carbon | ND | mg/L | 1.0 | | EPA-415.1 | ND | | 6 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-310.1 | 06/19/15 | 06/19/15 14:22 | RML | MET-1 | 1 | BYF1867 |
| 2 | EPA-300.0 | 06/18/15 | 06/18/15 12:47 | OLH | IC1 | 1 | BYF1752 |
| 3 | SM-3500-FeD | 06/18/15 | 06/18/15 07:43 | TDC | KONE-1 | 1 | BYF1811 |
| 4 | EPA-353.2 | 06/18/15 | 06/18/15 07:58 | TDC | KONE-1 | 1 | BYF1762 |
| 5 | SM-4500SD | 06/23/15 | 06/23/15 20:30 | DIW | SPEC05 | 1 | BYF2160 |
| 6 | EPA-415.1 | 06/19/15 | 06/19/15 16:03 | ALW | TOC2 | 1 | BYF1786 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-03 | Client Sample Name: 7124, MW-2-W-150617, 6/17/2015 6:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------|--------|-------|-----|-----|-----------|---------|-----------|-------|
| Dissolved Iron | 320 | ug/L | 50 | | EPA-6010B | ND | | 1 |
| Total Manganese | 5300 | ug/L | 10 | | EPA-6010B | ND | | 2 |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-6010B | 06/19/15 | 06/22/15 16:14 | ARD | PE-OP3 | 1 | BYF1847 |
| 2 | EPA-6010B | 06/26/15 | 06/29/15 10:11 | ARD | PE-OP2 | 1 | BYF2482 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-04 | Client Sample Name: 7124, MW-3-W-150617, 6/17/2015 8:20:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------------|------------|-------------|----------------------|-----|------------------|---------|-----------|-------|
| Benzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | 3.2 | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | | EPA-8260B | ND | | 1 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 88.4 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 99.5 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 108 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/22/15 | 06/22/15 18:09 | SE1 | MS-V10 | 1 | BYF2071 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-04 | Client Sample Name: 7124, MW-3-W-150617, 6/17/2015 8:20:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|--|--------|-------|----------------------|-----|-----------|---------|-----------|-------|
| Gasoline Range Organics (C6 - C12) | 250 | ug/L | 50 | | EPA-8015B | ND | | 1 |
| a,a,a-Trifluorotoluene (FID Surrogate) | 114 | % | 70 - 130 (LCL - UCL) | | EPA-8015B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B | 06/23/15 | 06/23/15 22:29 | AKM | GC-V9 | 1 | BYF1893 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Gas Testing in Water

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-04 | Client Sample Name: 7124, MW-3-W-150617, 6/17/2015 8:20:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-------------|--------|-------|--------|-----|----------|---------|-----------|-------|
| Methane | 0.11 | mg/L | 0.0010 | | RSK-175M | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | RSK-175M | 06/29/15 | 06/30/15 10:27 | JH2 | GC-V1 | 1 | BYF2623 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-04 | Client Sample Name: 7124, MW-3-W-150617, 6/17/2015 8:20:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------|--------|-------|------|-----|-------------|---------|-----------|-------|
| Total Alkalinity as CaCO3 | 310 | 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 |
| Iron (II) Species | 4700 | ug/L | 100 | | SM-3500-FeD | ND | | 3 |
| Nitrite as NO2 | ND | mg/L | 0.17 | | EPA-353.2 | ND | | 4 |
| Total Sulfide | ND | mg/L | 0.10 | | SM-4500SD | ND | | 5 |
| Non-Volatile Organic Carbon | 25 | mg/L | 5.0 | | EPA-415.1 | ND | A07 | 6 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-310.1 | 06/19/15 | 06/19/15 14:29 | RML | MET-1 | 1 | BYF1867 |
| 2 | EPA-300.0 | 06/18/15 | 06/18/15 13:05 | OLH | IC1 | 1 | BYF1752 |
| 3 | SM-3500-FeD | 06/18/15 | 06/18/15 07:43 | TDC | KONE-1 | 1 | BYF1811 |
| 4 | EPA-353.2 | 06/18/15 | 06/18/15 07:58 | TDC | KONE-1 | 1 | BYF1762 |
| 5 | SM-4500SD | 06/23/15 | 06/23/15 20:30 | DIW | SPEC05 | 1 | BYF2160 |
| 6 | EPA-415.1 | 06/19/15 | 06/22/15 07:25 | ALW | TOC2 | 5 | BYF1786 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-04 | Client Sample Name: 7124, MW-3-W-150617, 6/17/2015 8:20:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------|--------|-------|-----|-----|-----------|---------|-----------|-------|
| Dissolved Iron | 350 | ug/L | 50 | | EPA-6010B | ND | | 1 |
| Total Manganese | 6300 | ug/L | 10 | | EPA-6010B | ND | | 2 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-6010B | 06/19/15 | 06/22/15 16:16 | ARD | PE-OP3 | 1 | BYF1847 |
| 2 | EPA-6010B | 06/26/15 | 06/29/15 10:13 | ARD | PE-OP2 | 1 | BYF2482 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-05 | Client Sample Name: 7124, MW-4-W-150617, 6/17/2015 5:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------------|--------|-------|----------------------|-----|-----------|---------|-----------|-------|
| Benzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dibromoethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethylbenzene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Methyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Toluene | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Total Xylenes | ND | ug/L | 1.0 | | EPA-8260B | ND | | 1 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 85.8 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 98.6 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 90.9 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/22/15 | 06/22/15 17:51 | SE1 | MS-V10 | 1 | BYF2071 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-05 | Client Sample Name: 7124, MW-4-W-150617, 6/17/2015 5:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|--|--------|-------|----------------------|-----|-----------|---------|-----------|-------|
| Gasoline Range Organics (C6 - C12) | 78 | ug/L | 50 | | EPA-8015B | ND | | 1 |
| a,a,a-Trifluorotoluene (FID Surrogate) | 98.5 | % | 70 - 130 (LCL - UCL) | | EPA-8015B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B | 06/19/15 | 06/19/15 17:06 | AKM | GC-V9 | 1 | BYF1571 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Gas Testing in Water

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-05 | Client Sample Name: 7124, MW-4-W-150617, 6/17/2015 5:25:00AM |
|----------------------------------|---|

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

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | RSK-175M | 06/29/15 | 06/30/15 10:31 | JH2 | GC-V1 | 1 | BYF2623 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-05 | Client Sample Name: 7124, MW-4-W-150617, 6/17/2015 5:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------|--------|-------|------|-----|-------------|---------|-----------|-------|
| Total Alkalinity as CaCO3 | 210 | mg/L | 4.1 | | EPA-310.1 | ND | | 1 |
| Nitrate as NO3 | ND | mg/L | 0.44 | | EPA-300.0 | ND | | 2 |
| Sulfate | 51 | mg/L | 1.0 | | EPA-300.0 | ND | | 2 |
| Iron (II) Species | 2100 | ug/L | 100 | | SM-3500-FeD | ND | | 3 |
| Nitrite as NO2 | ND | mg/L | 0.17 | | EPA-353.2 | ND | | 4 |
| Total Sulfide | ND | mg/L | 0.10 | | SM-4500SD | ND | | 5 |
| Non-Volatile Organic Carbon | 1.9 | mg/L | 1.0 | | EPA-415.1 | ND | | 6 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-310.1 | 06/19/15 | 06/19/15 14:52 | RML | MET-1 | 1 | BYF1868 |
| 2 | EPA-300.0 | 06/18/15 | 06/18/15 13:22 | OLH | IC1 | 1 | BYF1752 |
| 3 | SM-3500-FeD | 06/18/15 | 06/18/15 07:43 | TDC | KONE-1 | 1 | BYF1811 |
| 4 | EPA-353.2 | 06/18/15 | 06/18/15 07:58 | TDC | KONE-1 | 1 | BYF1762 |
| 5 | SM-4500SD | 06/23/15 | 06/23/15 20:30 | DIW | SPEC05 | 1 | BYF2160 |
| 6 | EPA-415.1 | 06/19/15 | 06/19/15 16:32 | ALW | TOC2 | 1 | BYF1786 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1514902-05 | Client Sample Name: 7124, MW-4-W-150617, 6/17/2015 5:25:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|------------------------|-------------|-------------|-----------|-----|------------------|-----------|-----------|----------|
| Dissolved Iron | ND | ug/L | 50 | | EPA-6010B | ND | | 1 |
| Total Manganese | 2400 | ug/L | 10 | | EPA-6010B | ND | | 2 |

| Run # | Method | Prep Date | Run | | Analyst | Instrument | Dilution | QC |
|-------|-----------|-----------|-----------|-------|---------|------------|----------|----------|
| | | | Date/Time | | | | | Batch ID |
| 1 | EPA-6010B | 06/19/15 | 06/22/15 | 16:17 | ARD | PE-OP3 | 1 | BYF1847 |
| 2 | EPA-6010B | 06/26/15 | 06/29/15 | 10:14 | ARD | PE-OP2 | 1 | BYF2482 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--|---------------------|-------------|----------|-----------------------------|-----|-----------|
| QC Batch ID: BYF2071 | | | | | | |
| Benzene | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| 1,2-Dibromoethane | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| 1,2-Dichloroethane | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| Ethylbenzene | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| Methyl t-butyl ether | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| Toluene | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| Total Xylenes | BYF2071-BLK1 | ND | ug/L | 1.0 | | |
| t-Amyl Methyl ether | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| t-Butyl alcohol | BYF2071-BLK1 | ND | ug/L | 10 | | |
| Diisopropyl ether | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| Ethanol | BYF2071-BLK1 | ND | ug/L | 250 | | |
| Ethyl t-butyl ether | BYF2071-BLK1 | ND | ug/L | 0.50 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYF2071-BLK1 | 88.0 | % | 75 - 125 (LCL - UCL) | | |
| Toluene-d8 (Surrogate) | BYF2071-BLK1 | 99.1 | % | 80 - 120 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BYF2071-BLK1 | 101 | % | 80 - 120 (LCL - UCL) | | |

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2000 Powell Street 7th Floor
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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

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: BYF2071 | | | | | | | | | | |
| Benzene | BYF2071-BS1 | LCS | 20.470 | 25.000 | ug/L | 81.9 | | 70 - 130 | | |
| Toluene | BYF2071-BS1 | LCS | 22.660 | 25.000 | ug/L | 90.6 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BYF2071-BS1 | LCS | 8.7000 | 10.000 | ug/L | 87.0 | | 75 - 125 | | |
| Toluene-d8 (Surrogate) | BYF2071-BS1 | LCS | 9.7600 | 10.000 | ug/L | 97.6 | | 80 - 120 | | |
| 4-Bromofluorobenzene (Surrogate) | BYF2071-BS1 | LCS | 10.820 | 10.000 | ug/L | 108 | | 80 - 120 | | |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Percent | | Lab Quals | |
|-----------------------------------|------|-----------------------|------------------|--------|----------------|-------|-----|----------|-----------------------|--------------|--|
| | | | | | | | | Recovery | Control Limits RPD | | |
| QC Batch ID: BYF2071 | | Used client sample: N | | | | | | | | | |
| Benzene | MS | 1514952-11 | ND | 22.560 | 25.000 | ug/L | | 90.2 | | 70 - 130 | |
| | MSD | 1514952-11 | ND | 22.760 | 25.000 | ug/L | 0.9 | 91.0 | 20 | 70 - 130 | |
| Toluene | MS | 1514952-11 | ND | 24.430 | 25.000 | ug/L | | 97.7 | | 70 - 130 | |
| | MSD | 1514952-11 | ND | 24.370 | 25.000 | ug/L | 0.2 | 97.5 | 20 | 70 - 130 | |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1514952-11 | ND | 8.9200 | 10.000 | ug/L | | 89.2 | | 75 - 125 | |
| | MSD | 1514952-11 | ND | 8.9700 | 10.000 | ug/L | 0.6 | 89.7 | | 75 - 125 | |
| Toluene-d8 (Surrogate) | MS | 1514952-11 | ND | 9.6300 | 10.000 | ug/L | | 96.3 | | 80 - 120 | |
| | MSD | 1514952-11 | ND | 9.5900 | 10.000 | ug/L | 0.4 | 95.9 | | 80 - 120 | |
| 4-Bromofluorobenzene (Surrogate) | MS | 1514952-11 | ND | 10.890 | 10.000 | ug/L | | 109 | | 80 - 120 | |
| | MSD | 1514952-11 | ND | 10.720 | 10.000 | ug/L | 1.6 | 107 | | 80 - 120 | |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|--|--------------|-----------|-------|----------------------|-----|-----------|
| QC Batch ID: BYF1571 | | | | | | |
| Gasoline Range Organics (C6 - C12) | BYF1571-BLK1 | ND | ug/L | 50 | | |
| a,a,a-Trifluorotoluene (FID Surrogate) | BYF1571-BLK1 | 91.4 | % | 70 - 130 (LCL - UCL) | | |
| QC Batch ID: BYF1893 | | | | | | |
| Gasoline Range Organics (C6 - C12) | BYF1893-BLK1 | ND | ug/L | 50 | | |
| a,a,a-Trifluorotoluene (FID Surrogate) | BYF1893-BLK1 | 102 | % | 70 - 130 (LCL - UCL) | | |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|--|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYF1571 | | | | | | | | | | |
| Gasoline Range Organics (C6 - C12) | BYF1571-BS1 | LCS | 918.56 | 1000.0 | ug/L | 91.9 | | 85 - 115 | | |
| a,a,a-Trifluorotoluene (FID Surrogate) | BYF1571-BS1 | LCS | 37.420 | 40.000 | ug/L | 93.6 | | 70 - 130 | | |
| QC Batch ID: BYF1893 | | | | | | | | | | |
| Gasoline Range Organics (C6 - C12) | BYF1893-BS1 | LCS | 1080.1 | 1000.0 | ug/L | 108 | | 85 - 115 | | |
| a,a,a-Trifluorotoluene (FID Surrogate) | BYF1893-BS1 | LCS | 40.151 | 40.000 | ug/L | 100 | | 70 - 130 | | |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab Quals |
|--|------|-----------------------|------------------|--------|----------------|-------|-----|---------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYF1571 | | Used client sample: N | | | | | | | | |
| Gasoline Range Organics (C6 - C12) | MS | 1513811-43 | ND | 992.01 | 1000.0 | ug/L | | 99.2 | | 70 - 130 |
| | MSD | 1513811-43 | ND | 961.90 | 1000.0 | ug/L | 3.1 | 96.2 | 20 | 70 - 130 |
| a,a,a-Trifluorotoluene (FID Surrogate) | MS | 1513811-43 | ND | 40.327 | 40.000 | ug/L | | 101 | | 70 - 130 |
| | MSD | 1513811-43 | ND | 39.165 | 40.000 | ug/L | 2.9 | 97.9 | | 70 - 130 |
| QC Batch ID: BYF1893 | | Used client sample: N | | | | | | | | |
| Gasoline Range Organics (C6 - C12) | MS | 1513811-44 | ND | 1062.1 | 1000.0 | ug/L | | 106 | | 70 - 130 |
| | MSD | 1513811-44 | ND | 1011.9 | 1000.0 | ug/L | 4.8 | 101 | 20 | 70 - 130 |
| a,a,a-Trifluorotoluene (FID Surrogate) | MS | 1513811-44 | ND | 40.719 | 40.000 | ug/L | | 102 | | 70 - 130 |
| | MSD | 1513811-44 | ND | 40.324 | 40.000 | ug/L | 1.0 | 101 | | 70 - 130 |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Gas Testing in Water

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|--------|-----|-----------|
| QC Batch ID: BYF2548 | | | | | | |
| Methane | BYF2548-BLK1 | ND | mg/L | 0.0010 | | |
| QC Batch ID: BYF2623 | | | | | | |
| Methane | BYF2623-BLK1 | ND | mg/L | 0.0010 | | |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Gas Testing in Water

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------|--------------|------|-----------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYF2548 | | | | | | | | | | |
| Methane | BYF2548-BS1 | LCS | 0.0096112 | 0.010843 | mg/L | 88.6 | | 80 - 120 | | |
| | BYF2548-BSD1 | LCSD | 0.0099853 | 0.010843 | mg/L | 92.1 | 3.8 | 80 - 120 | 20 | |
| QC Batch ID: BYF2623 | | | | | | | | | | |
| Methane | BYF2623-BS1 | LCS | 0.0099680 | 0.010843 | mg/L | 91.9 | | 80 - 120 | | |
| | BYF2623-BSD1 | LCSD | 0.010048 | 0.010843 | mg/L | 92.7 | 0.8 | 80 - 120 | 20 | |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-----|-----------|
| QC Batch ID: BYF1752 | | | | | | |
| Nitrate as NO3 | BYF1752-BLK1 | ND | mg/L | 0.44 | | |
| Sulfate | BYF1752-BLK1 | ND | mg/L | 1.0 | | |
| QC Batch ID: BYF1762 | | | | | | |
| Nitrite as NO2 | BYF1762-BLK1 | ND | mg/L | 0.17 | | |
| QC Batch ID: BYF1786 | | | | | | |
| Non-Volatile Organic Carbon | BYF1786-BLK1 | ND | mg/L | 1.0 | | |
| QC Batch ID: BYF1811 | | | | | | |
| Iron (II) Species | BYF1811-BLK1 | ND | ug/L | 100 | | |
| QC Batch ID: BYF1867 | | | | | | |
| Total Alkalinity as CaCO3 | BYF1867-BLK1 | ND | mg/L | 4.1 | | |
| QC Batch ID: BYF1868 | | | | | | |
| Total Alkalinity as CaCO3 | BYF1868-BLK1 | ND | mg/L | 4.1 | | |
| QC Batch ID: BYF2160 | | | | | | |
| Total Sulfide | BYF2160-BLK1 | ND | mg/L | 0.10 | | |

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
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 |
|-----------------------------|--------------|------|---------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BYF1752 | | | | | | | | | | |
| Nitrate as NO3 | BYF1752-BS1 | LCS | 21.904 | 22.134 | mg/L | 99.0 | | 90 - 110 | | |
| Sulfate | BYF1752-BS1 | LCS | 97.748 | 100.00 | mg/L | 97.7 | | 90 - 110 | | |
| QC Batch ID: BYF1762 | | | | | | | | | | |
| Nitrite as NO2 | BYF1762-BS1 | LCS | 1.7301 | 1.6425 | mg/L | 105 | | 90 - 110 | | |
| QC Batch ID: BYF1786 | | | | | | | | | | |
| Non-Volatile Organic Carbon | BYF1786-BS1 | LCS | 5.1510 | 5.0000 | mg/L | 103 | | 85 - 115 | | |
| QC Batch ID: BYF1811 | | | | | | | | | | |
| Iron (II) Species | BYF1811-BS1 | LCS | 2529.6 | 2500.0 | ug/L | 101 | | 90 - 110 | | |
| QC Batch ID: BYF1867 | | | | | | | | | | |
| Total Alkalinity as CaCO3 | BYF1867-BS3 | LCS | 102.08 | 100.00 | mg/L | 102 | | 90 - 110 | | |
| QC Batch ID: BYF1868 | | | | | | | | | | |
| Total Alkalinity as CaCO3 | BYF1868-BS3 | LCS | 100.71 | 100.00 | mg/L | 101 | | 90 - 110 | | |
| QC Batch ID: BYF2160 | | | | | | | | | | |
| Total Sulfide | BYF2160-BS1 | LCS | 0.51549 | 0.50000 | mg/L | 103 | | 90 - 110 | | |

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Project Number: 351638
Project Manager: Kathy Brandt

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs: BYF1752, BYF1762, BYF1786, BYF1811, BYF1867, BYF1868, BYF2160.

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Reported: 07/01/2015 16:39
Project: 7124
Project Number: 351638
Project Manager: Kathy Brandt

Metals Analysis

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|-----|-----|-----------|
| QC Batch ID: BYF1847 | | | | | | |
| Dissolved Iron | BYF1847-BLK1 | ND | ug/L | 50 | | |
| QC Batch ID: BYF2482 | | | | | | |
| Total Manganese | BYF2482-BLK1 | ND | ug/L | 10 | | |

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Project Manager: Kathy Brandt

Metals Analysis

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab | Quals |
|-----------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|-------|
| | | | | | | | | Percent Recovery | RPD | | |
| QC Batch ID: BYF1847 | | | | | | | | | | | |
| Dissolved Iron | BYF1847-BS1 | LCS | 1068.9 | 1000.0 | ug/L | 107 | | 85 | 115 | | |
| QC Batch ID: BYF2482 | | | | | | | | | | | |
| Total Manganese | BYF2482-BS1 | LCS | 541.28 | 500.00 | ug/L | 108 | | 85 | 115 | | |

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Project Number: 351638
Project Manager: Kathy Brandt

Metals Analysis

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: BYF1847 | | Used client sample: N | | | | | | | | |
| Dissolved Iron | DUP | 1514836-01 | ND | ND | | ug/L | | | 20 | |
| | MS | 1514836-01 | ND | 1103.2 | 1020.4 | ug/L | | 108 | | 75 - 125 |
| | MSD | 1514836-01 | ND | 1108.1 | 1020.4 | ug/L | 0.4 | 109 | 20 | 75 - 125 |
| QC Batch ID: BYF2482 | | Used client sample: N | | | | | | | | |
| Total Manganese | DUP | 1514838-01 | 4.3588 | ND | | ug/L | | | 20 | |
| | MS | 1514838-01 | 4.3588 | 521.34 | 500.00 | ug/L | | 103 | | 75 - 125 |
| | MSD | 1514838-01 | 4.3588 | 547.55 | 500.00 | ug/L | 4.9 | 109 | 20 | 75 - 125 |

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Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.