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September 29, 2016

Ms. Kit Soo, P.G. Alameda County Health Care Services Agency Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Subject:

FIRST 2016 SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING, PLUME DELINEATION, AND DATA COLLECTION FOR

REMEDIAL EVALUATION REPORT

Former Francis Plating Site

785 7th Street, Oakland, California

Dear Ms. Soo:

Enclosed please find the First 2016 Semi-Annual Groundwater Monitoring and Sampling, Plume Delineation, and Data Collection for Remedial Evaluation Report for the Former Francis Plating Site.

Perjury Statement:

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

If you have any questions or comments regarding the Report, please feel free to Adam Brown McIver at (530) 272-4200.

Sincerely,

Tom McCoy Property Owner

Enclosure



FIRST 2016 SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING, PLUME DELINEATION, AND DATA COLLECTION FOR REMEDIAL EVALUATION REPORT

Former Francis Plating Site 789 7th Street, Oakland, California

06-FP-004

Prepared For:

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August 3, 2016

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CERTIFICATION

All hydrogeologic and geologic information in this document regarding the <u>789 7th Street Site</u> have been prepared under the supervision of and reviewed by the certified professional whose signature appears below.



Jing Heisler, P.G.
Professional Geologist
The Source Group, Inc.

A division of APEX Companies, LLC



1.0 INTRODUCTION

On behalf of The Seventh Street Group, LLC (Seventh Street Group), The Source Group, Inc. (SGI) has prepared this *First 2016 Semi-Annual Groundwater Monitoring and Sampling, Plume Delineation, and Data Collection for Remedial Evalution Report* (Report) for the parcel at 789 7th Street, Oakland, California (Parcel 1), the western parcel that make up the Former Francis Plating Site (the Site, Figures 1 and 2). The Site is currently under the regulatory oversight of the Alameda County Environmental Health Services (ACEH) (Alameda County SLIC Case No.RO0002586).

The data presented in this Report was collected in accordance with SGI's November 20, 2015 Revised Plume Delineation and Data Collection for Evaluation of Remedial Alternatives Work Plan (Work Plan) (SGI, 2015), which was conditionally approved in ACEH correspondence dated January 13, 2016 (Appendix A). The objective of this scope of work was to;

- Define the extent of VOC and Hexavalent Chromium contamination in shallow groundwater;
- 2) Define the extent of VOCs, metals, and Hexavalent Chromium in source area soil; and
- 3) Collect additional soil properties data for remedial evaluation.

1.1 Site Location and Description

The Site is located at 789 7th Street, in a light industrial area of Oakland. The Site is bounded by 7th Street to the north, Parcel 2 and Brush Street to the east, a Shell service station to the west, and a commercial building and lot to the south (Figure 2).

The Site is vacant and paved, and is used for parking. An approximately 2,227-square-foot building occupies the northeast corner of the adjacent Parcel 2. The property is covered by concrete or asphalt, with the exception of an exposed strip of soil along the western property line.



2.0 SITE BACKGROUND

This section provides background information, subsurface conditions, and previous remediation activities at the Site.

2.1 Site Operational History

A review of Sanborn Fire Insurance maps by BASELINE Environmental Consulting (BASELINE) identified the Site use in the late 1940s and early 1950s as an auto and truck sales and service shop (BASELINE, 2005). The Site was operated as a plating facility from approximately 1957 to 1998. A building occupied the western portion (Parcel 1) of the Site from the late 1940s until it was destroyed by fire in 1992. The building currently on the adjacent parcel (Parcel 2) was constructed in 1970. Plating operations were conducted in both the former and current buildings on the two parcels.

In 1998, the property was found abandoned with chemicals and equipment remaining on Site. As part of an emergency response action, the U.S. Environmental Protection Agency (USEPA) removed the abandoned chemicals and equipment, and excavated shallow soil in areas without asphalt or concrete surfaces. In 2003, the current owner, The Seventh Street Group, acquired the property.

2.2 Hydrogeologic Setting

Past investigations indicate that the lithology is consistent across the Site. Soil from the surface to 3 to 5 feet below ground surface (bgs) consists of silty sand/sand fill with some brick and concrete debris. Very fine- to fine-grained sands (Merritt Sands) of the San Antonio Formation underlie the fill and extend to approximately 60 feet bgs (BASELINE, 2010). The Merritt Sands are underlain by plastic clay (Old Bay Mud).

Regional groundwater flow direction in the San Antonio Formation is southwesterly toward the Oakland Inner Harbor, located approximately 2,300 feet south of the Site. Based on groundwater monitoring conducted by BASELINE in 2003, 2005, and 2010, the depth to the shallow unconfined groundwater at the Site has ranged from approximately 12 to 16 feet bgs. Groundwater monitoring performed by BASELINE in 2010, and groundwater monitoring reports from the adjacent Shell Service Station, indicate that the local shallow unconfined groundwater flows in a south/southwesterly direction (BASELINE, 2010; CRA, 2009). The Old Bay Mud is the confining layer for the deeper water-bearing formation.

2.3 Summary of Remedial Actions and Current Environmental Conditions

The USEPA response action, conducted from 1998 through 2000, involved characterization of stored liquids, sludge, and sediments contained in tanks, pits, and ponds, all located above the concrete pavement. All of these materials were subsequently removed from the Site, and soil samples were collected and analyzed for selected metals and total cyanide (BASELINE, 2005).



Surface soils were removed as part of the emergency response action to ensure that remaining surface soils did not contain cadmium, chromium, nickel, and lead concentrations above USEPA Industrial Preliminary Remedial Goals. During the removal actions, shallow soil was excavated and removed from areas that were not capped with asphalt or concrete. These are the same areas (along the western boundary) not currently capped by asphalt or concrete.

Numerous investigations between 2000 and 2010 have identified metals, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and petroleum hydrocarbons in soil, groundwater, and/or soil vapor samples. Compounds detected in Site soil, groundwater, soil vapor and indoor air include:

- Lead, nickel, zinc, cadmium, total chromium, hexavalent chromium (Cr-VI), copper, antimony, PAHs, and cyanide have been detected in one or more soil samples at concentrations exceeding environmental screening levels (ESLs) established by the California Regional Water Quality Control Board – San Francisco Bay Region (CRWQCB) for land uses where groundwater is a drinking water resource;
- Dissolved total chromium, Cr-VI, cobalt, copper, lead, mercury, nickel, silver, thallium, vanadium, total petroleum hydrocarbons as diesel (TPHd), cis-1,2-dichloroethene (cis-1,2-DCE) and trichloroethene (TCE) have been detected in one or more groundwater samples at concentrations exceeding residential or commercial ESLs; and
- TCE has been detected in one or more shallow soil gas samples at concentrations exceeding ESLs.

Results of a 2006 investigation suggested that a subsurface containment vault on the southwestern portion of the Site referred to as the "Frog Pond," was a significant source of the subsurface contamination at the Site. As a result, the Frog Pond was removed in two phases, beginning in May 2007, and completed in December 2007. The Frog Pond removal activities are described in a BASELINE report dated February 2008 (BASELINE, 2008).

In April, 2010, BASELINE completed a soil and groundwater investigation which concluded groundwater impacts were confined to the Merritt Sand and chemical of primary concern for groundwater was Cr-VI detected in shallow and deep wells extending 120 feet down gradient of the Site. In addition, select dissolved metals detected in groundwater exceeded ESLs, no VOCs were reported in groundwater exceeding ESLs. Complete results are presented in BASELINE's *Phase IV Soil and Groundwater Investigation*, dated May 2010, (BASELINE, 2010).

During the most recent first quarter 2016 sampling event Cr-VI and TCE were detected at maximum concentrations of 200,000 μ g/L and 93 μ g/L, respectively, from well MW-FP4A. Groundwater flow direction was observed to the south/southwest gradient of 0.04 feet per foot (ft/ft). Groundwater concentrations and flow direction/gradient were generally consistent with historical conditions. Furthermore, groundwater measurements, including analytical results and groundwater parameters continue to indicate a non-reductive and aerobic subsurface environment. A non-reducing aerobic subsurface environment is not supportive of natural dechlorination or Cr-VI degradation.



August 3, 2016

In addition to first quarter monitoring and sampling activities on- and off-Site soil borings were advanced for the collection of soil samples, grab groundwater and remedial evaluation parameters. Cr-VI was not detected above respective ESLs in shallow source area soil and appears impacted shallow soil is limited to the former Frog Pond area and directly adjacent. The lateral extent of CrVI in groundwater extends approximately 160 feet down-gradient of the Site. Site lithology and remedial evaluation parameters indicate silts and clays of low permeability at the Site. Details regarding first quarter monitoring and sampling activities and delineation/remedial evaluation are presented in the following sections.



3.0 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

Groundwater monitoring and sampling activities were conducted on March 4 and 30, 2016. The first monitoring and sampling event was conducted on March 4, 2016. However, samples were received by the analytical laboratory out of hold time for Cr-VI analysis. SGI returned to the Site on March 30, 2016, to resample groundwater from wells for Cr-VI analysis.

3.1 Groundwater Monitoring

Groundwater levels measured on March 4, 2016, in seven shallow wells (MW-FP1, MW-FP2, MW-FP3, MW-FP4A, MW-FP5, MW-FP6 and MW-9) and two deeper screened on-Site wells (MW-FP4B and MW-FP7B) were used to develop groundwater potentiometric map. Well locations are presented on Figure 2. Groundwater levels were gauged from the top of the well casings using an electronic water level indicator graduated to 0.01-foot.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow techniques via peristaltic pump and dedicated tubing. During well purging, water quality parameters (dissolved oxygen [DO], oxidation reduction potential [ORP], temperature, electrical conductivity, and pH) were measured and recorded to ensure the groundwater samples were representative of aquifer conditions. Samples were transferred directly into laboratory-supplied containers and placed on ice for transport to Curtis & Tompkins Laboratory of Berkeley, California under chain-of-custody control. All groundwater samples collected during the 1Q16 event were analyzed for VOCs by EPA Method 8260B, dissolved metals (CAM 17 Metals) by EPA 6010B/7470A (field filtered with 0.45-micron filter), and total and dissolved Cr-VI by EPA Method 7196A (field filtered with 0.45 micron filter for dissolved Cr-VI).

3.3 Investigation Derived Waste

Decontamination and purge water generated from groundwater sampling activities was containerized in a 55-gallon steel drum, labeled, and temporarily staged on-Site pending analytic profiling and disposal at an approved facility.

3.4 Monitoring and Sampling Results

1Q16 groundwater monitoring and sampling was conducted on March 4 and March 30, 2016. Results are presented in the following sections.

3.4.1 Groundwater Elevations

Depth to water measurements ranged from 12.36 to 16.56 feet below top of casing (btoc) in wells screened in shallow zone; and from 11.88 to 16.43 feet btoc in wells screened in deeper zone. Corresponding groundwater elevations ranged from 8.65 to 9.33 feet above mean sea level (amsl) in wells screened in shallow zone; and from 8.63 to 9.01 feet amsl in wells screened in deeper zone.



A review of elevation data and the potentiometric surface map (Figure 3) indicates a south southwest gradient in shallow groundwater at rate of approximately 0.004 ft/ft, similar to previous findings. A potentiometric surface map for 1Q16 was generated from the groundwater elevation data and is presented as Figure 3. Groundwater elevation measurements are presented in Table 1.

The vertical potentiometric head difference between wells pairs MW-FP4A/4B and MW-9/MW-FP7B presented in Table 2. A review of the data indicates the vertical hydraulic gradients are flat at 0.00 ft/ft in wells MW-FP4A/4B and flat at 0.00 ft/ft in wells MW-9/MW-FP7B. Field form are included in Appendix B.

3.4.2 Groundwater Analytical Results

A summary of VOC results is provided in the table below:

| Analyte | Detection Frequency | Minimum Detected Concentration / Sample Location | Maximum Detected Concentration / Sample Location |
|----------------|------------------------|--|---|
| PCE | 0/9 | | |
| TCE | 4/9 | 2.2 MW-FP5 | 93 MW-FP4A |
| cis-1,2-DCE | 2/9 | 1.7 MW-9 | 71 MW-FP4A |
| 1,1-DCE | 1/9 | 1.0 MW-FP4A | 1.0 MW-FP4A |
| Vinyl Chloride | 0/9 | | |

Note:

Results presented in µg/L.

-- = Not Applicable

TCE and cis-1,2-DCE have been detected in one or more groundwater samples at concentrations exceeding ESLs for protection of drinking water as a resource. TCE was detected at a maximum concentration from on-Site monitoring well MW-FP4A at a concentration of 93 μ g/L. TCE was detected at a lesser extent of 9.9 μ g/L in monitoring well MW-FP6, approximately 130 feet south of the Site. VOC results are summarized in Table 3 and displayed on Figure 4. Laboratory analytical report is included in Appendix C.

A summary of dissolved metals and Cr-VI in provided in the table below:



| Analyte | Detection Frequency | Minimum Detected Concentration / Sample Location | Maximum Detected Concentration / Sample Location |
|-------------------------|------------------------|--|--|
| Barium | 9/9 | 27 MW-FP7B | 99 MW-FP4A |
| Total 9 / 9 Chromium | | 9.2 MW-FP4B | 16,000 MW-FP5 |
| Cr-VI | 9/ 9 | 10 MW-FP4B | 200,000 MW-FP4A |
| Cobalt | 1/9 | 9.2 MW-FP4A | 9.2 MW-FP4A |
| Copper | 1/9 | 19 MW-FP4A | 19 MW-FP4A |
| Molybdenum | 4/9 | 5.5 MW-FP6 and MW-9 | 34 MW-FP4A |
| Nickel | 6/9 | 8.4 MW-9 | 130 MW-FP4A |
| Vanadium | 2/9 | 11 MW-FP4B | 12 MW-FP7B |
| Zinc | 1/9 | 4 MW-FP4A | 4 MW-FP4A |

Notes: Results presented in µg/L.

Dissolved total chromium, Cr-VI, cobalt, copper, nickel, and zinc have been detected in one or more groundwater samples at concentrations exceeding ESLs. Results indicate that Cr-VI concentrations remain elevated and extend approximately 160 feet south of the Site to 6th Street. An isoconcentration map is included as Figure 5.

Cr-VI was detected at a concentration of 20 μ g/L and 4,300 μ g/L in shallow zone well MW-9 and deep zone well MW-FP7B, respectively. These values are not consistent with historic values and appear sampling containers were misidentified or mislabeled. For decision making purposes, SGI interprets MW-FP7B results as MW-9 results and MW-9 results as MW-FP7B results. Results will be confirmed during the third quarter sampling event. Results are summarized in Table 4 and Cr-VI results are displayed on Figure 5. Laboratory analytical reports are included in Appendix C.

3.4.3 Groundwater Parameters

All monitoring wells with the exception of MW-FP1, MW-FP4A, and MW-FP4B oxidation reduction potential (ORP) and dissolved oxygen (D.O.) parameters were recorded positive and greater than 1 milligram per liter (mg/L). These results indicate an aerobic groundwater environment. D.O. levels recorded in MW-FP1, MW-FP4A, and MW-FP4B were recorded at values less than 1.0 mg/L.



4.0 INVESTIGATION ACTIVITIES

SGI completed an investigation on May 19, 2016. The purpose of the investigation was to delineate the lateral extent of VOCs and Cr-VI in shallow groundwater downgradient of the Site and to further delineate impact of VOCs, metals and Cr-VI to soil in the vicinity of the Former Frog Pond for evaluation of source reduction options. The investigation included the collection of two grab groundwater samples collected from SB-FP4 and SB-FP5 located to the south of the Site and 11 soil samples collected from SB-FP1 through SB-FP3, located on-Site. Soil boring locations are illustrated on Figure 2. The investigation and results are detailed below.

4.1 Pre-Mobilization Activities

This section provides a brief overview of the activities that were completed prior to the initiation of the field investigation.

4.1.1 Utility Clearances / Survey

SGI notified Underground Service Alert (USA) of Northern California to alert public utility providers of the proposed drilling locations prior to conducting any subsurface work. On May 16, 2016, a private utility locator, Cruz Brothers Utility Locating (Cruz) of Santa Cruz, California located and delineated potential subsurface utilities and\or subsurface obstructions on-Site.

4.1.2 Permits

Soil boring permits were procured from Alameda County Public Works Agency (ACPWA). An additional Caltrans encroachment permit was obtained for off-Site soil borings. Copies of the permits procured are included as Appendix D.

4.2 Completion of Soil Borings

On May 19, 2016, SGI supervised Cascade Drilling, Inc. (Cascade) of Richmond, California as they completed five soil borings SB-FP1 through SB-FP5, at the locations shown on Figure 2. Soil borings SB-FP1 through SB-FP3 were advanced on-Site to 12 feet bgs each for the collection of soil samples. Soil borings SB-FP4 and SB-FP5 were advanced off-Site to 20 feet bgs for the collection of grab groundwater samples.

Prior to mechanical advancement each borehole was cleared for utilities with hand tools to a minimum of five feet bgs. Borings were advanced beyond five feet bgs using direct push technologies (DPT) equipped with a 2.25-inch diameter drilling rod at four-foot intervals. Soil samples for potential chemical analysis, field screening, geotechnical parameters, and lithologic logging purposes were collected continuously from all borings. Soil cuttings and/or soil retained in acetate liners were classified using ASTM and Unified Soil Classification System (USCS) methodology. Descriptions of soil samples included the following information:



- percentage of sample recovery;
- depth to first encountered groundwater;
- color (Munsell color chart);
- density;
- degree of moisture; and
- grain size classification (USCS; percentages of gravel, sand, silt, and clay).

A calibrated photo ionization detector (PID) was utilized to preliminarily screen encountered soils for the presence of VOCs to identify those horizons best suited for laboratory analysis. Soil samples were vacated from the sampling equipment and placed in zip lock bags. Approximately 10 to 20 minutes later, a PID measurement was collected from inside the zip lock bag. Lithologic characterization and other pertinent information (e.g., PID screening) were used to create detailed boring logs included in Appendix E. Daily field forms are included in Appendix B.

4.3 Soil Sampling

A total of nine soil samples were collected that were submitted for chemical analysis at depths ranging from 4 to 11.5 feet bgs from SB-FP1 through SB-FP3. Retrieved sample containers were capped with Teflon™ liners, labeled, sealed in a zip lock bag, and immediately placed in a chilled cooler for delivery to Curtis and Tompkins, Inc. of Berkeley, California.

Soil samples collected for chemical analysis were analyzed as follows:

 A total of nine discrete soil samples were analyzed for VOCs by USEPA Method 8260B, Metals by USEPA Method 6010B/7470A, and Hexavalent Chromium by USEPA Method 7196A.

Two additional soil samples were collected from SB-FP1 and SB-FP2 at a depth of 11 feet bgs for analysis of physical properties. Retrieved sample containers were capped with Teflon™ liners, labeled, sealed in a zip lock bag, and immediately placed in a chilled cooler for delivery to PTS Laboratories, Inc. of Santa Fe Springs, California.

Soil samples collected for physical properties analysis were analyzed as follows:

 A total of 2 discrete soil samples were analyzed for permeability/hydraulic conductivity, total porosity, air-filled porosity, dry bulk density, volumetric moisture content, and fraction organic carbon.

Upon completion, borings were backfilled with Portland cement and completed to match surface conditions.



4.4 Soil Sampling Results

A total of 11 soil samples were collected from SB-FP-1 through SB-FP-3 advanced in the vicinity of the Former Fog Pond. Results of the soil samples submitted for analysis on May 19, 2016 are summarized below:

| Analyte | Detection Frequency | Background* or ESL** as Indicated by Asterisk | Minimum Detected Concentration / Sample Location | Maximum Detected Concentration / Sample Location |
|----------|------------------------|--|--|--|
| Arsenic | 9/9 | 5.5* | 1.5 / SB-FP1 and | 3.1 / SB-FP2 and |
| Arsenic | | | SB-FP3 | SB-FP3 |
| Total | 9/9 | 58* | 32 / SB-FP2 | 260 / SB-FP1 |
| Chromium | | | | |
| Cr-VI | 3/9 | 6.2** | 0.44 / SB-FP1 | 4.6 / SB-FP3 |
| Cobalt | 9/9 | 3,500** | 2.3 / SB-FP1 | 7.3 / SB-FP2 |
| Lead | 9/9 | 320** | 2.6 / SB-FP3 | 12 / SB-FP1 |
| Mercury | 7/9 | 190** | 0.004 / SB-FP1 | 0.12 / SB-FP1 |
| Nickel | 9/9 | 11,000** | 16 / SB-FP2 | 140 / SB-FP2 |
| Vanadium | 9/9 | 5,800** | 17 / SB-FP1 | 32 / SB-FP2 |

Notes:

Detections shown in Bold.

bgs - below ground surface

mg/kg – micrograms per kilogram ESL – environmental screening level, CRWQCB, February 2016.

No metals were detected above the respective ESL with the exception of arsenic; however, it is well documented background concentrations of metals in the San Francisco Bay region often occur above ESLs. Therefore, concentrations of arsenic were evaluated against established background levels presented in Analysis of Background Distribution of Metals in the Soil at Lawrence Berkeley National Laboratory, revision dated April 2009 (Diamond et al., 2009, Table 2). The maximum concentration of arsenic of 3.1 mg/kg detected in soil borings SB-FP2 and SB-FP3 is below the arithmetic mean for arsenic of 5.5 mg/kg for background level. No VOCs were detected above the laboratory reporting limits in soil samples collected from SB-FP1 through SB-FP3.

Based on soil boring investigation results, shallow soil impact of Cr-VI is limited to the Former Frog Pond area and the area directly adjacent. Soil results are detailed in Tables 5 and 6 and shown on Figure 6. Laboratory analytical results are included in Appendix C.

4.4.1 Soil Boring Lithology

Soil encountered at the Site consist of relatively uniform units of silty/clayey sand and poorly graded sand (Merritt Sand deposits) at the surface to approximately 20 feet bgs, the maximum depth explored. Groundwater was not encountered in on-Site soil borings (SB-FP1 through SB-FP3). Groundwater was encountered in off-Site borings, SB-FP4 and SB-FP5, at approximately



19.5 and 14.5 feet bgs, respectively. Groundwater quickly infiltrated each boring with a static level ranging between 12 and 15 feet bgs.

4.4.2 Physical Properties Analysis Results

Soil sample analysis was performed appropriately as requested on the chain-of-custody. The data are considered valid, representative, and adequate for decision making purposes. Soil properties results are summarized in the following table.

| Location | Water- Filled Porosity (%Vb) | Effective Permeability to Water (millidarcy) | Hydraulic Conductivity (cm/s) | Intrinsic Permeability to Water (cm^2) | Total Organic Carbon (mg/kg) | |
|------------------------|---------------------------------------|--|-------------------------------------|---|------------------------------------|--|
| SB-FP1 at 11 ft bgs | 28.4 | 0.053 | 5.37E-08 | 5.24E-13 | 1400 | |
| SB-FP2 at 11 ft bgs | 23.7 | 0.117 | 1.18E-07 | 1.16E-12 | 300 | |

Notes:

%Vb = Percent Bulk Volume. Cm/s = centimeters per second.

Cm² = centimeters squared.

Mg/kg = milligrams per kilogram.

Soil properties results indicate that shallow source area soil consist of clays and silts with low permeability. In-situ remediation techniques would likely have a limited success in reduction of unsaturated source material. Laboratory analytical report is included in Appendix C.

4.5 Grab Groundwater Sampling Results

Two grab groundwater samples were collected from SB-FP4 and SB-FP5 advanced south of the Site. Results of the grab groundwater samples submitted for analysis on May 19, 2016 are summarized below and shown on Figures 3 and 4:



| Analyte | Detection Frequency | ESL | Minimum Detected Concentration / Sample Location | Maximum Detected Concentration / Sample Location |
|----------------|------------------------|------|--|--|
| PCE | 0/2 | 5 | | |
| TCE | 2/2 | 5 | 19 / SB-FP4 | 41 / SB-FP5 |
| Cis-1,2-DCE | 2/2 | 6 | 8.3 / SB-FP4 | 14 / SB-FP5 |
| Trans-1,2-DCE | 1/2 | 10 | | 2.2 / SB-FP5 |
| Vinyl Chloride | 0/2 | 0.5 | | |
| Cr-VI | 0/2 | 0.02 | | |

Notes:

Detections shown in Bold.

-- indicates field is not applicable

bgs – below ground surface µg/L – milligrams per liter PCE = Tetrachloroethylene TCE = Trichloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene trans-1,2-DCE = trans-1,2-Dichloroethene MTBE = methyl tert-butyl ether

ESL – environmental screening level, CRWQCB, February 2016.

PCE was not detected in grab groundwater samples collected from SB-FP4 and SB-FP5. TCE was detected in both samples at concentrations ranging from 19 µg/L to 41 µg/L. Cis-1,2-DCE was detected in both samples at concentration ranging from 8.3 µg/L to 14 µg/L. Although trans-1,2-DCE was detected (2.2 µg/L), concentrations were not above the ESL. Hexavalent Chromium was not detected in SB-FP4 and SB-FP5 at concentrations above the laboratory reporting limits.

The results indicate the Cr-VI plume in shallow groundwater is limited to the Site and the adjacent property to the south. The shallow groundwater plumes are vertically and laterally characterized. Results are summarized on Table 2 and 3, and shown on Figure 5. Laboratory analytical reports are included in Appendix C.

4.6 **Quality Assurance/Quality Control**

Soil sample analysis was performed appropriately as requested on the chain-of-custody. The data are considered valid, representative, and adequate for decision making purposes.

4.7 **Waste Management**

All investigation-derived residuals were managed consistent with applicable laws and regulations. Two 55-gallon drums were generated during investigation and monitoring and sampling activities. The drum is being stored on-Site pending characterization

4-5



5.0 FINDINGS AND RECOMMENDATIONS

A summary of investigation results is provided below:

- During the 1Q16 shallow groundwater beneath the Site flowed toward the south/southwest at a gradient of approximately 0.004 ft/ft, consistent with historical groundwater conditions;
- Groundwater parameters and results continue to indicate a non-reductive aerobic subsurface groundwater environment;
- Cr-VI was detected at concentrations below respective ESLs from soil borings SB-FP1 through SB-FP-3 and is lateral and vertically defined within the Former Frog Pond and directly adjacent;
- The maximum Cr-VI concentration in groundwater was detected in shallow zoned monitoring well MW-FP4A at 200,000 μg/L. Non-detectable concentrations of Cr-VI in grab groundwater samples collected from SB-FP4 and SB-FP5 indicate the lateral extent of Cr-VI impact to shallow groundwater has been defined. As shown on Figure 5 the groundwater plume is estimated to extend approximately 180 feet to the south of the Site;
- TCE was detected in 4 of 7 groundwater samples from shallow screened wells, two of which (MW-FP4 and MW-FP6) were at concentrations greater than the ESL (5 μg/L) for protection of drinking water resources. In addition, TCE was detected in shallow soil borings SB-FP4 and SB-FP5 at concentrations above the ESL; and
- Soil properties data indicate low permeability conditions on-Site.

The first 2016 semi-annual groundwater monitoring and sampling results indicated that groundwater concentrations and conditions (anaerobic) are generally consistent with historical findings. Investigation results indicated the extent of Cr-VI is defined laterally in soil and groundwater. SGI is scheduled to complete the second semi-annual monitoring and sampling event during the third quarter 2016. The second semi-annual monitoring and sampling report will include a feasibility study to evaluate remedial alternatives.

5-1



6.0 LIMITATIONS

This Report was prepared for the exclusive use of The Brush Street Group for the express purpose of complying with regulatory directives for environmental investigation, in accordance with the scope of work, methodologies, and assumptions outlined in SGI's contract with The Brush Street Group and as applicable to the location of the proposed investigation. Any re-use of this work product, in whole or in part, for a different purpose, or by others must be approved by SGI and The Brush Street Group in writing. If any such unauthorized use occurs, it shall be at the user's sole risk without liability to SGI. To the extent that this Report is based on information provided to SGI by third parties, including The Brush Street Group, their direct-contractors, previous workers, and other stakeholders, SGI cannot guarantee the completeness or accuracy of this information, even where efforts were made to verify third-party information. SGI has exercised professional judgment to collect and present a scope of work and opinions of a scientific and technical nature. The opinions expressed are based on the conditions of the Site existing at the time of this Report preparation, current regulatory requirements, and any specified assumptions. Findings or conclusions presented in this Report are intended to be taken in their entirety to assist The Brush Street Group and regulatory personnel in applying their own professional judgment in making decisions related to the property. SGI cannot provide conclusions on environmental conditions outside the completed scope of work. SGI cannot guarantee that future conditions will not change and affect the validity of the presented scope of work and any conclusions presented. No warranty or guarantee, whether expressed or implied, is made with respect to the data, observations, recommendations, and conclusions.



7.0 REFERENCES

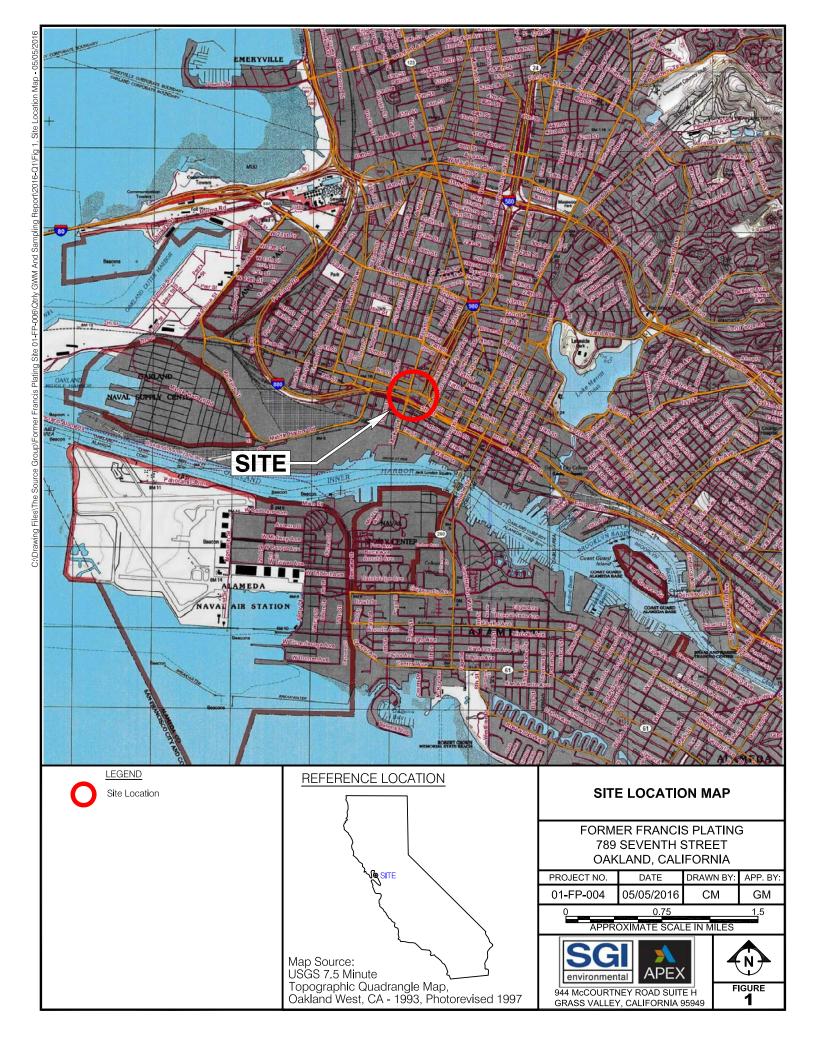
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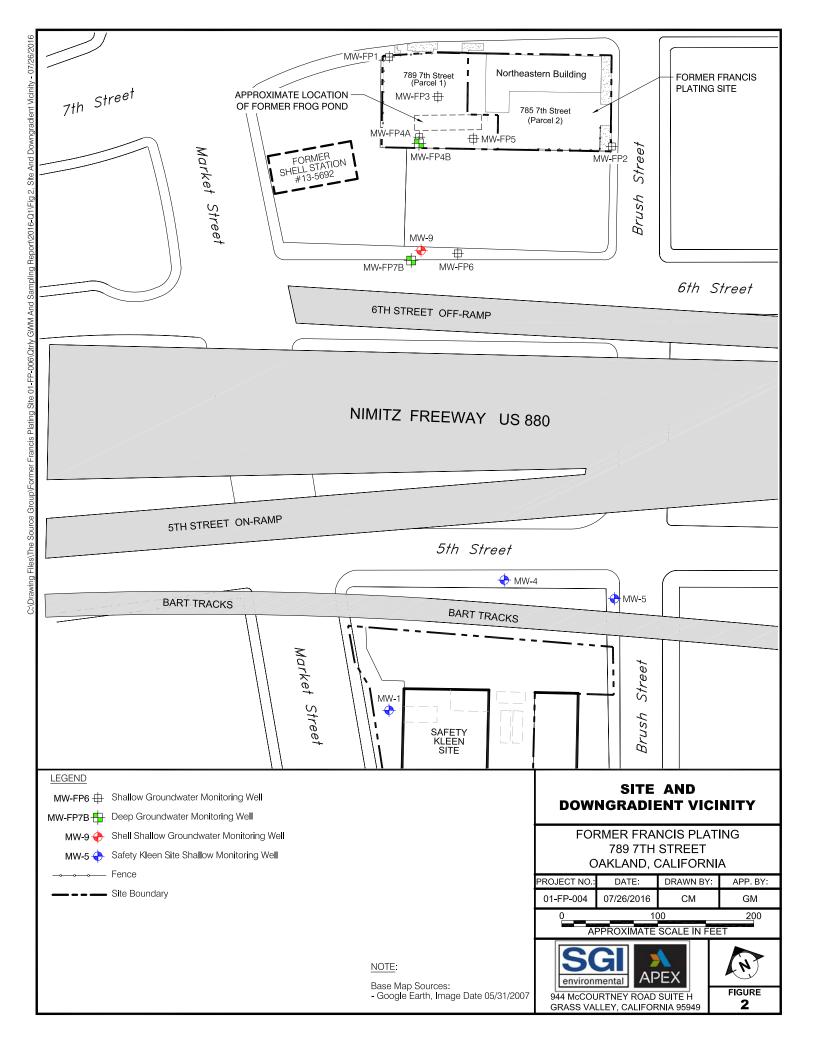
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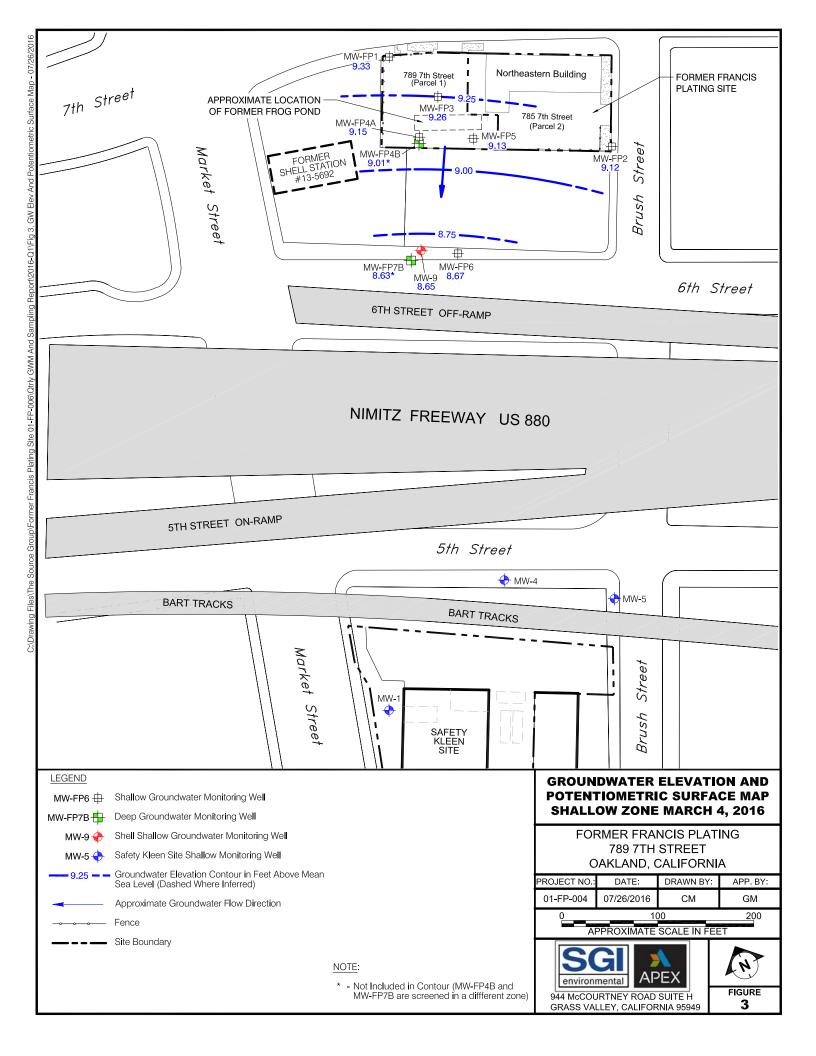
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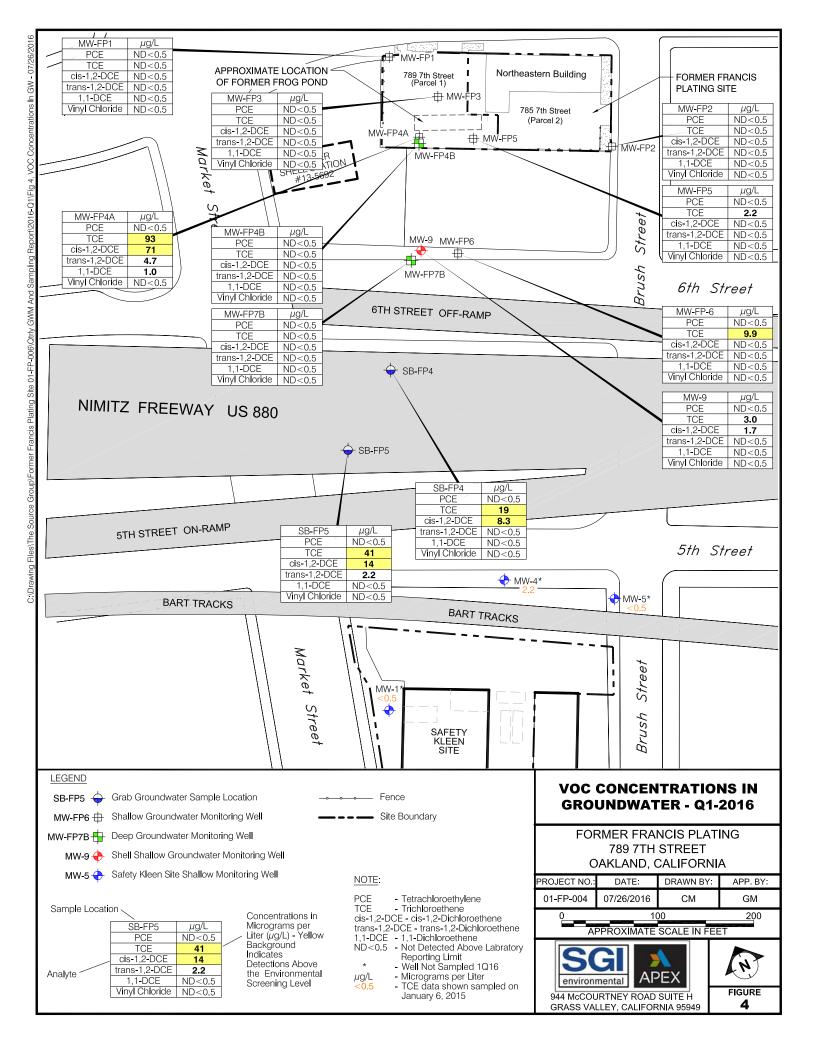


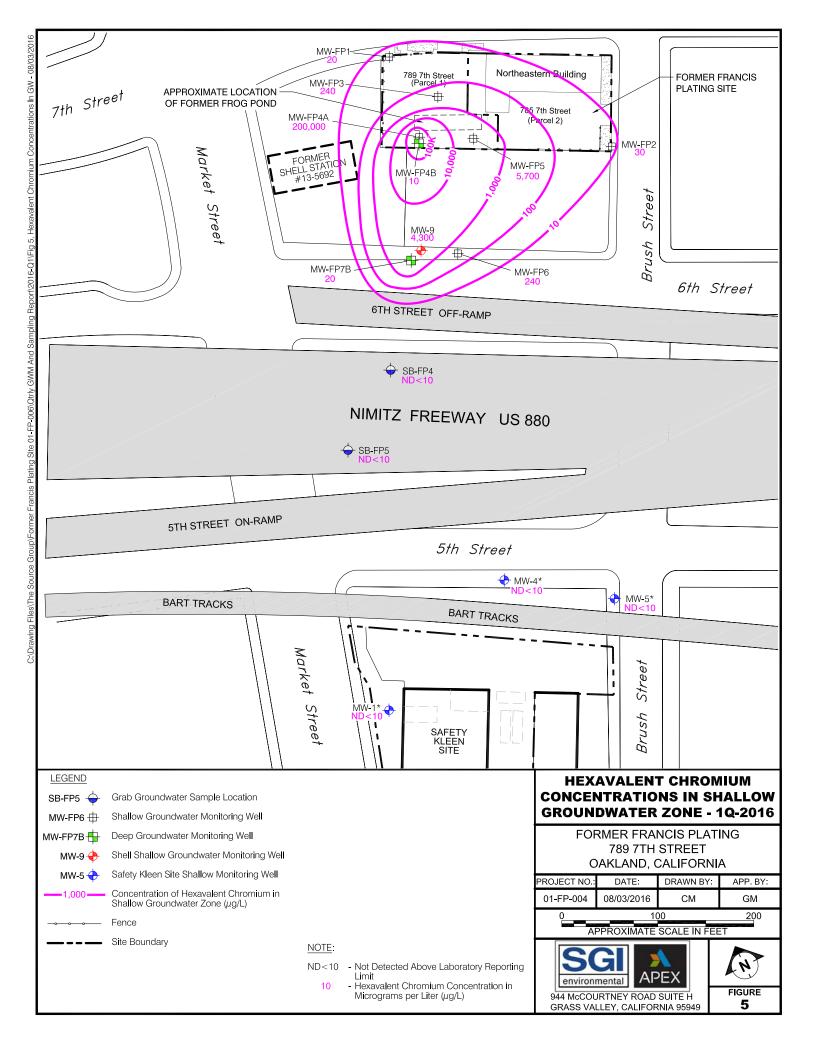












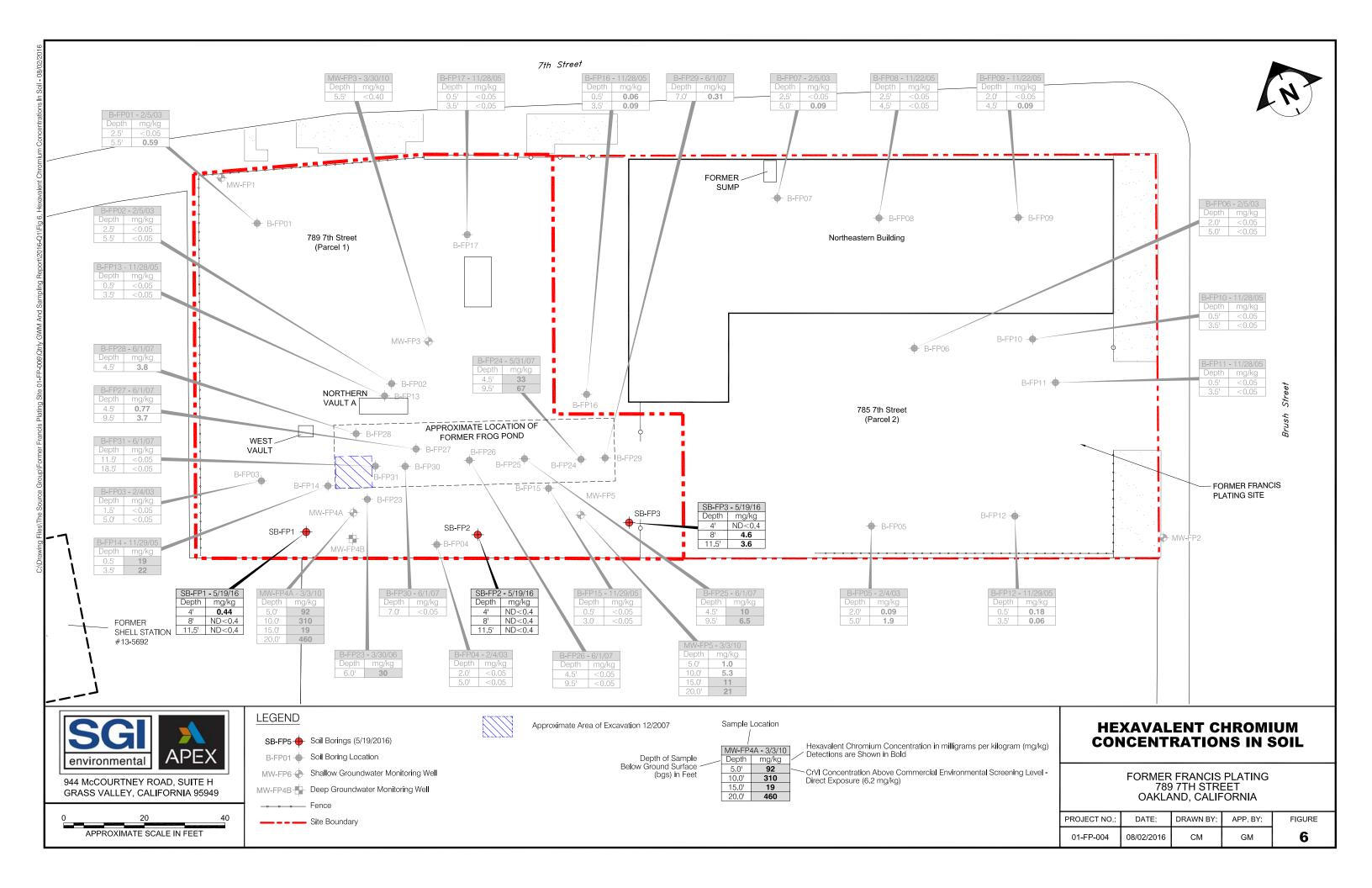




Table 1 Groundwater Level Measurements

Former Francis Plating Oakland, California

| Groundwater Zone Screened | Well ID | Sample Date | TOC ¹ | Depth to Water (ft btoc) | GW Elevation (ft msl) |
|------------------------------|---------|-------------|------------------|-----------------------------|--------------------------|
| | | ON-SITE | | | |
| | | 1/5/2015 | | 14.95 | 10.82 |
| | MW-FP1 | 8/25/2015 | 25.77 | 16.94 | 8.83 |
| | | 3/4/2016 | | 16.44 | 9.33 |
| | | 1/6/2015 | | 13.04 | 10.77 |
| | MW-FP2 | 8/25/2015 | 23.81 | 15.41 | 8.40 |
| | | 3/4/2016 | | 14.69 | 9.12 |
| | | 1/5/2015 | | 14.88 | 10.78 |
| | MW-FP3 | 8/25/2015 | 25.66 | 16.96 | 8.70 |
| | | 3/4/2016 | | 16.40 | 9.26 |
| a | MW-FP4A | 1/5/2015 | | 15.11 | 10.53 |
| Shallow | | 8/25/2015 | 25.64 | 17.26 | 8.38 |
| | | 3/4/2016 | | 16.49 | 9.15 |
| | MW-FP5 | 1/5/2015 | | 15.04 | 10.65 |
| | | 8/25/2015 | 25.69 | 17.27 | 8.42 |
| | | 3/4/2016 | | 16.56 | 9.13 |
| | MW-FP6 | 1/5/2015 | 21.03 | 10.98 | 10.05 |
| | | 8/25/2015 | | 13.12 | 7.91 |
| | | 3/4/2016 | | 12.36 | 8.67 |
| | | 9/1/2015 | 24.22 | 13.16 | 7.87 |
| | MW-9 | 3/4/2016 | 21.03 | 12.38 | 8.65 |
| | | 1/5/2015 | | 15.12 | 10.32 |
| | MW-FP4B | 8/25/2015 | 25.44 | 17.08 | 8.36 |
| _ | | 3/4/2016 | | 16.43 | 9.01 |
| Deep | | 1/5/2015 | | 10.53 | 9.98 |
| | MW-FP7B | 8/25/2015 | 20.51 | 12.53 | 7.98 |
| | | 3/4/2016 | | 11.88 | 8.63 |
| | | OFF-SITE | <u> </u> | <u> </u> | |
| | MW-1 | 1/6/2015 | 7.99 | 5.55 | 2.44 |
| Shallow | MW-4 | 1/6/2015 | 10.32 | 7.23 | 3.09 |
| | MW-5 | 1/6/2015 | 10.28 | 7.08 | 3.20 |

Notes:

TOC = Top of casing (feet above mean sea level)

ft btoc = feet below top of casing

ft msl = feet above mean sea level

¹ = Elevation datum is North American Vertical Datum of 1988 (NAVD88).

Table 2 Vertical Groundwater Potentiometric Head Differences

Former Francis Plating Oakland, California

| Water Bearing Zone | Well Pairs | Vertical Distance Between Center of Screened Intervals | Groundwater Elevation (feet amsl) | Hydraulic Head Difference (feet) | Vertical Gradient (ft/ft) ^a | Vertical Gradient Direction | | |
|-----------------------|------------|---|---|---|--|-----------------------------------|--|--|
| | | (feet) | First Quarter 2016 (3/4/2016) | | | | | |
| Shallow Zone | MW-FP4A | 32.5 | 9.15 | 0.14 | 0.00 | flat | | |
| Deep Zone | MW-FP4B | 32.3 | 9.01 | | 0.00 | liat | | |
| Shallow Zone | MW-9 | 31.50 | 8.65 | 0.02 | 0.00 | flat | | |
| Deep Zone | MW-FP7B | 31.50 | 8.63 | 0.02 | 0.00 | flat | | |

Notes:

ft/ft = feet per foot.

amsl = above mean sea level.



^a Vertical gradient measurement based on mid-point of well screens.

Table 3 Groundwater Analytical Results - Volatile Organic Compounds

Former Francis Plating Oakland, California

| Groundwater Zone | Sample | Sample | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride | Chlorofor |
|------------------|------------|-----------|--------|--------|---------------|---------------|---------|----------------|-----------|
| Screened | ID | Date | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) |
| | 1 | | | | ON-SITE | | | 1 | Ī |
| | | 1/5/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| | MW-FP1 | 8/25/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 3/4/2016 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 1/6/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| | MW-FP2 | 8/25/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 3/4/2016 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 1/5/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| | MW-FP3 | 8/25/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 3/4/2016 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 1/5/2015 | ND<0.5 | 52 | 37 | 2.6 | 0.6 | ND<0.5 | - |
| Shallow | MW-FP4A | 8/25/2015 | ND<0.5 | 91 | 91 | 5.4 | 1.1 | ND<0.5 | ND<0.5 |
| | | 3/4/2016 | ND<0.5 | 93 | 71 | 4.7 | 1.0 | ND<0.5 | ND<0.5 |
| | MW-FP5 | 1/5/2015 | ND<0.5 | 1.4 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| | | 8/25/2015 | ND<0.5 | 3.2 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 3/4/2016 | ND<0.5 | 2.2 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0. |
| | | 1/5/2015 | ND<0.5 | 6.6 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| | MW-FP6 | 8/25/2015 | ND<0.5 | 9.6 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 3/4/2016 | ND<0.5 | 9.9 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | MW-9 | 1/5/2015 | - | - | - | - | - | - | - |
| | | 9/1/2015 | ND<0.5 | 20 | 8.2 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 3/4/2016 | ND<0.5 | 3.0 | 1.7 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 1/5/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| | MW-FP4B | 8/25/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 7 |
| _ | | 3/4/2016 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 1.8 |
| Deep | | 1/5/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| | MW-FP7B | 8/25/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 17 |
| | l | 3/4/2016 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 15 |
| | I I | | l. | | OFF-SITE | L. L. | | ı | |
| | MW-1 | 1/6/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| Shallow | MW-4 | 1/6/2015 | ND<0.5 | 2.2 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| | MW-5 | 1/6/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | - |
| QA/QC | TB-1 | 8/25/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| QA/QC | TRIP BLANK | 9/1/2015 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0. |
| | - | | | | GRAB GROUNDWA | TER | | | |
| Shallow | SB-FP4 | 5/19/2016 | ND<0.5 | 19 | 8.3 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| Stration | SB-FP5 | 5/19/2016 | ND<0.5 | 41 | 14 | 2.2 | ND<0.5 | ND<0.5 | ND<0.5 |
| | ESLs | | 5 | 5 | 6 | 10 | 6 | 0.5 | 80 |

Notes:

Detections shown in Bold.
= Greater than ESL

μg/L = Micrograms per liter
PCE = Tetrachloroethylene
TCE = Trichloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene

trans-1,2-DCE = trans-1,2-Dichloroethene
1,1-DCE = 1,1-Dichloroethene

ND<0.50 = Not detected above laboratory's reporting limit

-= Not sampled
ESLs = CRWQCB Environmental Screening Levels - groundwater is a potential drinking water resource. (values above shaded)

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Table 4 Groundwater Analytical Results - Dissolved Metals and Hexavalent Chromium Former Francis Plating Oakland, California

| Groundwater Zone Screened | Well ID | Sample Date | Chromium (Hexavalent) | Antimony | Arsenic | Barium | Chromium (Total) | Cobalt | Copper | Mercury | Molybdenum | Nickel | Vanadium | Zin |
|------------------------------|------------|----------------|-----------------------|----------|---------|----------|---------------------|---------|--------|---------|------------|--------|----------|------|
| Jordania | | Dute | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/ |
| | ſ | 4/5/45 | 10 | ND<10 | ND<5.0 | ON-S | 1 | ND 45.0 | ND<5.0 | ND<0.20 | ND<5.0 | 24 | ND<5.0 | ND: |
| | MAY ED4 | 1/5/15 | | | | 44 | 5.2 | ND<5.0 | | | | 31 | | + |
| | MW-FP1 | 8/25/15 | ND<10 | ND<10 | ND<5.0 | 46 | 21 11 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | 35 | ND<5.0 | ND |
| | | 3/4/16 | 20* | ND<10 | ND<5.0 | 42 | | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | 12 | ND<5.0 | ND |
| | MW-FP2 | 1/6/15 | 10 | ND<10 | ND<5.0 | 32 | 16 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | ND<5.0 | ND |
| | | 8/25/15 | 10 | ND<10 | ND<5.0 | 29 | 25 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | ND<5.0 | NE |
| | | 3/4/16 | 30* | ND<10 | ND<5.0 | 32 | 19 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | ND<5.0 | NE |
| | | 1/5/15 | 280 | ND<10 | ND<5.0 | 45 | 270 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | 19 | 5.2 | NE |
| | MW-FP3 | 8/25/15 | 250 | ND<10 | ND<5.0 | 56 | 290 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | 20 | ND<5.0 | NΕ |
| | | 3/4/16 | 240* | ND<10 | ND<5.0 | 55 | 300 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | 29 | ND<5.0 | NE |
| | | 1/5/15 | 37,000 | 44 | ND<5.0 | 38 | 38,000 | 9.7 | 38 | ND<0.20 | 14 | 330 | ND<5.0 | |
| Shallow | MW-FP4A | 8/25/15 | 8,400 | ND<10 | ND<5.0 | 83 | 10,000 | 11 | 12 | ND<0.20 | 22 | 120 | ND<5.0 | - |
| | | 3/4/16 | 200,000* | ND<10 | ND<5.0 | 99 | 10,000 | 9.2 | 19 | ND<0.20 | 34 | 130 | ND<5.0 | |
| | MW-FP5 | 1/5/15 | 11,000 | 16 | ND<5.0 | 55 | 14,000 | ND<5.0 | ND<5.0 | ND<0.20 | 6.0 | 12 | ND<5.0 | NE |
| | | 8/25/15 | 19,000 | ND<10 | ND<5.0 | 40 | 24,000 | ND<5.0 | ND<5.0 | ND<0.20 | 6.2 | 24 | ND<5.0 | NI |
| | | 3/4/16 | 5,700* | ND<10 | ND<5.0 | 61 | 16,000 | ND<5.0 | ND<5.0 | ND<0.20 | 6.7 | 18 | ND<5.0 | NI |
| | MW-FP6 | 1/5/15 | 5,300 | ND<10 | ND<5.0 | 44 | 5,400 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | 15 | ND<5.0 | NE |
| | | 8/25/15 | 19,000 | ND<10 | ND<5.0 | 31 | 23,000 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | 38 | ND<5.0 | NE |
| | | 3/4/16 | 240* | ND<10 | ND<5.0 | 54 | 13,000 | ND<5.0 | ND<5.0 | ND<0.20 | 5.5 | 27 | ND<5.0 | NE |
| | MW-9 | 1/5/15 | - | - | - | - | - | - | - | - | - | - | - | Ī |
| | | 9/1/15 | 12,000 | ND<10 | ND<5.0 | 120 | 12,000 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | 98 | ND<5.0 | NE |
| | | 3/4/16 | 4,300* | ND<10 | ND<5.0 | 40 | 930 | ND<5.0 | ND<5.0 | ND<0.20 | 5.5 | 8.4 | ND<5.0 | NE |
| | MW-FP4B | 1/5/15 | 10 | ND<10 | ND<5.0 | 24 | 11 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | 8.9 | Νſ |
| | | 8/25/15 | ND<10 | ND<10 | ND<5.0 | 25 | 40 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | 7.3 | NE |
| | | 3/4/16 | 10* | ND<10 | ND<5.0 | 29 | 9.2 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | 11.0 | NE |
| Deep | MW-FP7B | 1/5/15 | 20 | ND<10 | ND<5.0 | 16 | 20 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | 12 | NΓ |
| | | 8/25/15 | 20 | ND<10 | ND<5.0 | 20 | 26 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | 12 | NE |
| | | 3/4/16 | 20* | ND<10 | ND<5.0 | 27 | 23 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | 12 | NE |
| | | 1 | | l | | OFF-S | SITE | | l | | 1 | | | |
| | MW-1 | 1/6/2015 | ND<10 | ND<10 | 6.4 | 52 | ND<5.0 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | ND<5.0 | NE |
| Shallow | MW-4 | 1/6/2015 | ND<10 | ND<10 | 5.2 | 35 | ND<5.0 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | ND<5.0 | NE |
| | MW-5 | 1/6/2015 | ND<10 | ND<10 | ND<5.0 | 48 | ND<5.0 | ND<5.0 | ND<5.0 | ND<0.20 | ND<5.0 | ND<5.0 | ND<5.0 | Νſ |
| | - T | · T | | · T | GI | RAB GROU | INDWATER | 1 | · T | | | | | _ |
| | SB-FP4 | 5/19/16 | ND<10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1 |
| Shallow | SB-FP5 | 5/19/16 | ND<10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1 |
| | Blank | 5/19/16 | ND<10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 1 |
| E | SLs | | 0.02 | 6 | 10 | 1,000 | 50 | 3 | 3.1 | 0.025 | 78 | 8.2 | 19 | |

Notes:

Notes:
Detections shown in Bold.

= Greater than ESL

µg/L = Micrograms per liter
ND<10 = Analyte not detected above laboratory reporting limit

- = Not sampled
NA = Not analyzed
ESLs = CRWQCB Environmental Screening Levels - groundwater is a potential drinking water resource. (values above shaded)
VALUE* = Indicates hexavalent chromium sample was collected on March 30, 2016.

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Table 5 Soil Analytical Results - Volatile Organic Compounds

Former Francis Plating Oakland, California

| Sample ID | Sample Depth | Sample Date | PCE | TCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCE | Vinyl Chloride | Chloroform | |
|--------------|------------------------------------|----------------|-----------|-----------|-------------|---------------|-----------|----------------|------------|--|
| ID | | Date | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| | | | | _ | | | | | | |
| | 4 | 5/19/2016 | ND<0.0046 | ND<0.0046 | ND<0.0046 | ND<0.0046 | ND<0.0046 | ND<0.0093 | ND<0.0046 | |
| SB-FB1 | 8 | | ND<0.0048 | ND<0.0048 | ND<0.0048 | ND<0.0048 | ND<0.0048 | ND<0.0095 | ND<0.0048 | |
| | 11.5 | | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0098 | ND<0.0049 | |
| SB-FB2 | 4 | 5/19/2016 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0098 | ND<0.0049 | |
| | 8 | | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0099 | ND<0.0049 | |
| | 11.5 | | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.0099 | ND<0.005 | |
| | 4 | | ND<0.0047 | ND<0.0047 | ND<0.0047 | ND<0.0047 | ND<0.0047 | ND<0.0095 | ND<0.0047 | |
| SB-FB3 | 8 | 5/19/2016 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.01 | ND<0.005 | |
| | 11.5 | | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0049 | ND<0.0098 | ND<0.0049 | |
| ESL (Cor | ESL (Commercial - Direct Exposure) | | | 8 | 90 | 730 | 400 | 0.15 | 1.3 | |

= indicates concentrations over the ESL

ESL = Environmental Screening Level

PCE = Tetrachloroethene

TCE = Trichloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene

trans-1,2-DCE = trans-1,2-Dichloroethene

1,1-DCE = 1,1-Dichloroethene

ND<0.50 = Not detected above laboratory's reporting limit

- = Not sampled

ESLs = CRWQCB Environmental Screening Levels - Soil, Commercial - Direct Exposure

Table 6 Soil Analytical Results - Metals and Hexavalent Chromium Former Francis Plating

-ormer Francis Platin Oakland, California

| Well ID | Sample Depth | Sample Date | Arsenic | Barium | Beryllium | Cadmium | Chromium (Total) | Chromium (Hexavalent) | Cobalt | Copper | Lead | Mercury | Molybdenum | Nickel | Vanadium | Zinc |
|--|------------------------------------|-------------|---------|---------|-----------|---------|---------------------|--------------------------|---------|---------|---------|----------|------------|---------|----------|---------|
| | | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| | | | | | | | | | 1 | | 1 | | | | | |
| SB-FP1 | 4 | | 1.9 | 37 | 0.13 | 0.48 | 260 | 0.44 | 2.3 | 9.1 | 12 | 0.12 | ND<0.25 | 57 | 17 | 17 |
| | 8 | 5/19/2016 | 3.0 | 49 | 0.3 | ND<0.26 | 41 | ND<0.4 | 6.2 | 6.8 | 3.1 | ND<0.17 | ND<0.26 | 120 | 31 | 23 |
| | 11.5 | | 2.7 | 41 | 0.27 | ND<0.24 | 55 | ND<0.4 | 6.0 | 7.1 | 3.00 | 0.04 | ND<0.24 | 140 | 33 | 25 |
| SB-FP2 | 4 | 5/19/2016 | 1.5 | 30 | 0.18 | ND<0.23 | 32 | ND<0.4 | 4.0 | 5.2 | 3.2 | 0.029 | ND<0.23 | 16 | 19 | 18 |
| | 8 | | 3.1 | 46 | 0.28 | ND<0.23 | 37 | ND<0.4 | 7.3 | 7.2 | 3.0 | 0.035 | ND<0.23 | 33 | 32 | 23 |
| | 11.5 | | 2.4 | 59 | 0.24 | ND<0.25 | 46 | ND<0.4 | 6.2 | 8.6 | 2.9 | 0.032 | ND<0.25 | 33 | 31 | 23 |
| SB-FP3 | 4 | 5/19/2016 | 1.9 | 47 | 0.19 | ND<0.24 | 36 | ND<0.4 | 3.7 | 5.7 | 4.0 | ND<0.016 | ND<0.31 | 18 | 22 | 15 |
| | 8 | | 3.1 | 63 | 0.28 | ND<0.23 | 67 | 4.6 | 7.2 | 7.0 | 2.9 | 0.037 | 0.29 | 36 | 31 | 23 |
| | 11.5 | | 1.5 | 59 | 0.17 | ND<0.26 | 57 | 3.6 | 3.7 | 7.0 | 2.6 | 0.035 | ND<0.26 | 26 | 21 | 19 |
| ESL (Com | ESL (Commercial - Direct Exposure) | | | | 2,200 | 580 | | 6.2 | 3,500 | 47,000 | 320 | 190 | 5,800 | 11,000 | 5,800 | 350,000 |
| • | , , | | 0.31 | 220,000 | 2,200 | 360 | | 0.2 | | | | 190 | 5,800 | | , | |
| Background Levels (Diamond et al., 2009) | | 5.5 | 130 | | | 58 | | 14 | 32 | 7.0 | - | | 68 | 46 | 64 | |

⁼ indicates concentrations over the ESL

Background arsenic levels were found in Analysis of Background Distribution of Metals in the Soil at Lawerence Berkeley National Laboratory, Diamond et al., April 2009. ND<0.23 = Not detected above laboratory's reporting limit

ESLs = CRWQCB Environmental Screening Levels - Soil, Commerial, Direct Exposure

Page 1 of 1 The Source Group, Inc.

^{- =} Not sampled

APPENDIX A REGULATORY CORRESPONDENCE



ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

January 13, 2016

Mr. Tom McCoy 94612 (Sent via E-mail to: tmccoy@bbiconstruction.com)
Brush Street Group, LLC
1155 3rd Street, Suite 230
Oakland, CA 94607

Subject: Conditional Work Plan Approval for SLIC Case RO0002586 and GeoTracker Global ID SL0600130797, Francis Plating Frog Pond, 789 7th Street, Oakland, CA 94607

Dear Mr. McCoy:

Alameda County Environmental Health (ACEH) staff has reviewed the Site Cleanup Program (SCP) case file for the above referenced site including the recently submitted document entitled, "Revised Plume Delineation and Data Collection for Evaluation of Remedial Alternatives Work Plan, Former Francis Plating – Frog Pond Site, 789 Seventh Street, Oakland, California," dated February 23, 2015 (Work Plan). The Work Plan proposes three on-site borings to collect data to help evaluate source area remedial options and two off-site borings for plume delineation.

The proposed scope of work in the Work Plan is conditionally approved and may be implemented provided that the technical comments below are incorporated during the site investigation. Submittal of a revised Work Plan is not required unless an alternate scope of work outside that described in the Work Plan and technical comments below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

- 1. Depth of Off-site Borings and Grab Groundwater Sampling. The Scope of Work section on page 4 of the Work Plan indicates that off-site borings will be advanced to depth of approximately 20 and 50 feet bgs for the collection of grab groundwater samples. Table 1 Proposed Sampling Plan indicates that the proposed sample depths for the off-site borings will be 30 feet bgs. Since the depth to groundwater at the site ranges from approximately 11 to 17 feet bgs, the collection of grab groundwater samples from a depth of 30 feet bgs is not acceptable to define the shallow groundwater plume. We request that the grab groundwater samples be collected less than 10 feet below first-encountered groundwater. In no case should the grab groundwater samples be collected below a depth of 25 feet bgs. Please present the sampling results in the Plume Delineation and Data Collection for Evaluation of Remedial Alternatives Report requested below.
- 2. Clarification of Laboratory Analysis. We generally concur with the proposed laboratory analyses presented in Table 1. However, the soil samples from the on-site borings will be analyzed for metals and not dissolved metals. We request that the two grab groundwater samples be analyzed for both total and dissolved hexavalent chromium.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and filenaming convention:

- March 25, 2016 Semi-annual Groundwater Monitoring Report File to be named: GWM_R_yyyy-mm-dd RO2586
- May 8, 2016 Plume Delineation and Data Collection for Evaluation of Remedial Alternatives Report

File to be named: SWI_R_yyyy-mm-dd RO2586

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org. Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297 Senior Hazardous Materials Specialist

Attachments: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Margot Lederer Prado, City of Oakland Economic Development Division, Brownfields Management, 250 Frank H. Ogawa Plaza, Suite 3315, Oakland, CA 94612 (Sent via E-mail to: MPrado@oaklandnet.com)

Adam Brown, The Source Group, Inc., 944 McCourtney Road, Suite H, Grass Valley, CA 95949 (Sent via E-mail to: abrown@thesourcegroup.net)

Markus Niebanck, Amicus, 580 Second Street, Suite 260, Oakland, CA 94607 (Sent via E-mail to: markus@amicusenv.com)

Jerry Wickham, ACEH (Sent via E-mail to: <u>jerry.wickham@acgov.org</u>)
GeoTracker, eFile

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please **SWRCB** visit the website for more information on these requirements (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)

REVISION DATE: May 15, 2014

ISSUE DATE: July 5, 2005

PREVIOUS REVISIONS: October 31, 2005;

December 16, 2005; March 27, 2009; July 8, 2010,

July 25, 2010

SECTION: Miscellaneous Administrative Topics & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Please do not submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection.
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- <u>Do not</u> password protect the document. Once indexed and inserted into the correct electronic case file, the
 document will be secured in compliance with the County's current security standards and a password. <u>Documents</u>
 with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to deh.loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

FIELD FORMS

Former Francis Plating

Weather Overcast

Water Level Survey

| Well ID | Casing Diameter | Top of Casing (ft above msl) | TD (ft bgs) (from well log) | Top of Screen (ft bgs) | TD Actual Guaged (bgs) | Time (24hr) | Depth to Free Product | Depth to Water | Decon Equipment | Comments |
|---------|--------------------|------------------------------|--------------------------------|---------------------------|---------------------------|-------------|--------------------------|----------------|--------------------|------------------|
| MW-FPZ | | | | | | 0805 | - | 14.69 | DFust | |
| MW-FP7B | | | | | | 0850 | _ | 11.88 | DI | |
| mW-FPG | | | | | | 0900 | _ | 12.36 | DI | |
| MW-9 | | | | | | 0910 | _ 3 | 12.38 | DI | .* |
| MW-BPS | | | | | | 0940 | _ | 16.56 | DI | |
| MW-FP4A | | | | | | 0945 | | 16.49 | DInels | |
| MW-FP4B | | | | | | 0950 | | 16.43 | DI water | |
| MW-FP3 | | | | | | 1000 | | 16.40 | PI | 7. 3 6° 50 |
| mw-FP1 | | | | 1857.1 | | 1020 | | 16-44 | DZ | Not Accessoble 1 |
| | | | - | | | | | - | | |
| | | | STAN . | | | mo/A | | | ^ | 8 |
| | | | | | - | | | | | |
| | | 41.30 | 10. T. | | ^ | | | | | |
| | | A. | *** | | | | | J. Harris | | |
| | | COLUMN TOWN | | | | | W 4 | | | |
| | - | | | | | | | | 19 | |
| - | | | | - | | | 4- | | | |
| | | | | | | | | | | 200 |
| | | | | | | | | | | |



| Sounder | WELL | 10.: 06 - 1D: M (4 | 1-FPI | | = | | | | | | |
|--|-------------------------------|------------------------------|---------------------|-----------|-------------|----------|--------------------|-----------------|---|--|---------------------|
| Soap water wash Tap water rinse Diwater | | Equipmen | t Decon | | | | | INITIA | AL DTW (ft): | 16. | 44 |
| Tap water rinse | Sounder | | | Footvalve | | | | ЕРТН ТО В | OTTOM (ft): | | |
| Discrete | | Soap wat | ter wash | | | | | WELI | L DIAM. (in): | | |
| Diwater rinse | | Tap wate | er rinse | | | | | 3 VOLU | IMES (gals): | | |
| TUBING SIZE: Other (specify): | \times | DI wate | rrinse | | | | n=3=0.04 (1=); n=3 | | | | 3 (3"); h*3*0.65 (4 |
| METER TYPE: Harnia U22 Hanna Other (speelty) | - | 1719- | 6 | - | | • | | near middle | near botto | | |
| FLOW THROUGH CELL?: Yes No | | - I | 116 | - | | | | Hanna (| Other (specify) | |): |
| Time (24 hr) Volume (mL/Gal.) pH EC (μS/cm) Turbidity (ntu) (°C) ORP (mV) Other Observations (Color, Sheen) | | \ \ | - 1 | - | | | 1000 | Tidiliu V | | | |
| (24 hr) | | | | | Р | URGE LOG | | | | | |
| | | | рН | | | | 7-27-27 | | 100 H | | |
| Total Volume Purged: 3.75 | 12100 | initial | 200 | 1 545 | - 120 | 155 | | 1. 3 | 6,50 | | |
| Total Volume Purged: 3.75 | 1203 | 720 | 17. = | 5 8,50 | - a | 7.55 | ~ ' 1, " | - 4.3 | 16.38 | | |
| Total Volume Purged: Purging Method Submersible Pump Total Volume Purged: Purging Submersible Pump NELL SAMPLING: DTW at Time of Sampling: Sampling Method Submersible Pump Pu | 1406 | 1440 | 124/3 | V2-71-1 | -15, 5 | 1,5 | 2 Tye = | 14 - 7 | -0,1477° | | |
| Total Volume Purged: 3.75 / Purge Rate: 240 m/ May 30% Rechage = Purging Submersible Pump Pump Pump Pump Pump Pump Pump Pump | 1409 | 2160 | 715 | 37.75 | 2.75 | 11.38 | 2/ 7. | 30 2 pH 201 | - 22 | | |
| Total Volume Purged: 3.75 | 1412 | 2880 | 1.35 | J. 5. | | 7-7:24 | - 3/1 -1 | 3 | 100 | | |
| Purging Method Submersible Pump Pump Pump Bailer Pump Bailer Waterra DTW at Time of Sampling: Sampling Submersible Pump Pump Pump Pump Pump Pump Pump Pump | 1415 | 3,600 | 11er 5.1 | 3 8 1/3 | 8,35 | , 4 55 | | 100 | 27.45 | | |
| NELL SAMPLING: DTW at Time of Sampling: Sampling Method Pump Pump Pump Pump Pump Pump Pump Pump | Total V | | 5.000 | | Purge Rate: | 240 m | 2/m 2 | | | 80% Rechag | e = |
| Sampling Submersible Pump Pump Pump Bailer Waterra | VELL SAMPLII | NG: | Submersible Pump | | Pump | Bailer | Waterra | ledicate tubins | | | |
| Nethod Pump | | | 2" | - 15 15 1 | | Dallas | | | | | |
| ANALYTES: VOC's metals Chromium | | Method | Pump | 3.50 | Pump | baller | vvalerra | | | | |
| ### Field Filter? no yes no | ANALYTES: | VOC's | | | | | | | | | |
| Field Filter? no | PA Method: | 8260B | 2222222222222222222 | 7196A | | | | | | | |
| Preservative: HCI HNO3 none SAMPLE ID: MU-FP DA/QC SAMPLING: VAS QA/QC SAMPLE COLLECTED FOR THIS WELL? IF SO, SAMPLE ID: TYPE: Rinsate Blank MS/MSD Duplicate inbient Blank | estomes upwerper process comp | | | | | | | | | | |
| SAMPLE ID: | | 3 voas | 1 500ml | 1 500ml | | | | | | | |
| DA/QC SAMPLING: WAS QA/QC SAMPLE COLLECTED FOR THIS WELL? IF SO, SAMPLE ID: TYPE: Rinsate Blank MS/MSD Duplicate ribient Blank | reservative: | | 1441 | | | | | | | | |
| | | NG: | | | _? | | | | YES | s / NO | |
| 1 | 15.00 |), SAMPLE ID: | | | | TYPE: | Rinsate Blank | | MS/MSD | Duplicate | mbient Blanl |
| | IF SC | | | | | | | | | and some of the state of the st | |



| OJECT NO. WELL ID | 13647 | FP2 | | | | | | DTM /4\. | 14.69 |
|------------------------------|--|--------------------------|-------------------------------------|----------------------------|---------------------|---------------------|---------------------|--|---|
| | Equipment D |)econ | | | | | | | |
| under | | | Footvalve | | | DE | | | |
| under | Soap water | wash | | | | | | | |
| | Tap water | rinse | | | h | *3*0.04 (1"); h*3*(| n n64 (1.25"); h*3" | 1.5 (gais). 10.16 (2"); h*3*0.3 1.5 (6"); h*3*0.83 | 26 (2.5"); h*3*0.38 (3"); h*3*0.65 (4"); (4.5') |
| X | DI water | rinse | | | IG INTAKE: <u>r</u> | | near middle | near bottor | |
| GE DATE: | 3/4 | 116_ | F | | UBING SIZE: _ | | | | Other (specify): |
| PLE TIME: | - 1 1 1 1 1 1 | 16 | | ME | TER TYPE: | Horriba U22 | Hanna O | ther (specify) | |
| IPLE DAT <u>E</u> SONNEL: | | 15 | FI | LOW THROU | JGH CELL?: | Yes | | No | |
| JOHN | | | | P | URGE LOG | | | DTW | Other Observations (Color, |
| Time (24 hr) | Volume (mL/ Gal.) | рН | EC (μS/cm) | Turbidity (ntu) | Temp. (°C) | ORP (mV) | D.O. (mg/L) | (ft) | Odor, Sheen,) |
| 79 | initial | 17.72 | 0.304 | 345 | 18.79 | -98.0 | 2.58 | 14,60 | |
| 732 | 720 | 17.09 | 0.301 | 340 | 19.08 | -118.8 | 2.84 | 14.31 | |
| 3 35 | 1440 | 12.28 | 0.301 | 339 | 19.22 | -/36.2 | 2.72 | 14.31 | |
| 73% | 2160 | 12.65 | 0.302 | 337 | 19,27 | - 125,2 | 2.62 | 10.51 | |
| 741 | 2880 | 12.66 | 0.302 | 339 | 1000 | -/7J.D | 9 61 | 1-135 | |
| 144 | 3600 | 12.69 | 0.302 | 237 | 17.22 | 200 | 4.0 | 100 | |
| | N. | | | | | - | | | |
| | | | | | | - | | 100 | |
| | 1 | | | | 2110 | nL/mih | | | 80% Rechage = |
| | Volume Purge Purgir Metho | ig _{Submersibl} | — 12 Volt | Purge Rat Peristaltic Pump | Bailer | Waterra | dedi | cated | |
| <u>/ELL SAMPI</u> | Sampli Meth | ng 2" | e of Sampling 12 Volt le Pump | Peristaltic | | Waterra | | | |
| ANALYTES | S: VOC's | dissolved metals | Chromiun | | | | | | |
| PA Metho | d: 8260B | 6010B/ 7470A | | | | _ | | | |
| Field Filte | G. 1000e | yes | no | - | - | | | | |
| Bottle | The fire to the state of the st | 1 500m | | - | | | | | |
| Preservativ | | HNO3 | | 2. | | | | | |
| | SAMPLE IPLING: C SAMPLE C F SO, SAMPLE S: | OLLECTED | FOR THIS W | | TY | PE: Rinsate E | 3lank | MS/MS | YES / NO SD Duplicate mbient Bl |
| | g. | | | | | | | | |



| PROJECT NA | NO.: 00 | ucis o-ff | Platins | _ | | | | | | |
|------------------|-----------------------|---------------------------|------------------------|----------------------|-----------------------------|-------------------|--------------------|-----------------|----------------------|---------------------------|
| WELL | . ID: <u>M</u> W |)= FP3 | | ī | | | | | | |
| Marin I Park | Equipmen | nt Decon | | | | | INITI | AL DTW (ft): | 16. | 46 |
| Sounder | | | Footvalve | | | | DEPTH TO E | OTTOM (ft): | | |
| | Soap wa | ter wash | | | | | WEL | L DIAM. (in): | | |
| | Tap wat | ter rinse | | | | | 3 VOLU | JMES (gals): | - 6 | |
| X | DI wate | er rinse | |] | | h*3*0.04 (1"); h* | 3*0.064 (1.25"); h | | 0.26 (2.5"); h*3*0.3 | 8 (3"); h*3*0.65 (4" |
| PURGE DATE | 3/4/ | 1/6 | _ | PUMP/TUBI | NG INTAKE: | near top | near middle | near botto | om Custom(| t) : |
| SAMPLE TIM | | | <u>-</u> | 1 | UBING SIZE: | | | | Other (specify |): |
| SAMPLE DAT | | 116 | _ | | ETER TYPE: | | Hanna (| Other (specify) | Ý | |
| PERSONNEL | العاء ال | cuis | | FLOW THROU | | Yes | | No | | |
| | 222 8 | | 1 | P | URGE LOG | | | | 1 | |
| Time (24 hr) | Volume (mL/ Gal.) | pH | EC (μS/cm) | Turbidity (ntu) | Temp. (^O C) | ORP (mV) | D.O. (mg/L) | DTW (ft) | | vations (Color, heen,) |
| 32. | initial | 1/1.60 | 3 900 | E.B.C. | 1771,727 | -23,9 | 1/400 | 23 | | |
| 1530 | 720 | 11 53 | 0.800 | 237 | 1971 5 | 175.47 | 61 1 1 5 K | en Jer | = | |
| 1333 | 1440 | 0.5 | 5.517 | 5 - 70 | · 7 · | y a | 1.00 | 16.72 | | |
| 1336 | 2160 | 1/.61 | 0.867 | 388 | 70.72 | -18.4 | 4.07 | 16.73 | | |
| Total V | olume Purged: | 2.25 4 | | Duras Potes | 240 m | 1 /min | (4 | | 909/ Dankar | |
| VELL SAMPLIN | Purging Method | 2" Submaraible | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | 80% Rechag | e = |
| VLLL SAWIFLIN | | DTW at Time | of Sampling: | 16.73 | | (11) | | | | |
| | Sampling Method | 2" Submersible Pump | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | | |
| ANALYTES: | VOC's | dissolved metals | Hexavalent Chromium | | | | | | | |
| PA Method: | 8260B | 6010B/ 7470A | 7196A | | | | | | | |
| Field Filter? | no | yes | no | | | | | | | |
| Bottles: | 3 voas | 1 500ml | 1 500ml | | | | | | | |
| reservative: | HCI | HNO3 | none | | | | | | | |
| A/QC SAMPLII | SAMPLE ID: _ | VIVO | - FF 5 | | | | | | | |
| | AMPLE COLL | ECTED FOR | THIS WELL | ? | | | | YES | / NO | |
| | , SAMPLE ID: | | | | TYPE: I | Rinsate Blank | | MS/MSD | Duplicate | mbient Blank |
| OMMENTS: | | | | | | | | | | |
| | | | | | | | | | | |
| /ell Repair (che | ck if needed): | racked or Da | amaged PVC | | Other (specify): | | | N N | | |



| WEL | LID | | | 7 | | | | | |
|-----------------------------|--------------------------|---------------------------|------------------------|---------------------|---------------------------|----------------|--------------------------|--|---|
| | Equipme | nt Decon | | | | | INIT | IAL DTW (ft) | : 16.49 |
| Sounder | 1 | | Footvalve | 4 | 1 | | DEPTH TO I | BOTTOM (ft) | i |
| | Soap wa | ater wash | | 4 | | | WEL | L DIAM. (in) | : |
| | Tap wa | ter rinse | | | | **** | 3 VOLI | JMES (gals) | |
| \times | - L | er rinse | | | | | *3*0.064 (1.25"); I h | 1*3*0.16 (2"); h*3* *3*1.5 (6"); h*3*0. | 0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 83 (4.5') |
| PURGE DATI | 1.11 | 116 | 8 | | ING INTAKE: | Carried States | near middle | near bott | om Custom(ft): |
| SAMPLE TIM SAMPLE DAT | | /16 | - | | TUBING SIZE: | | 600 | | Other (specify): |
| PERSONNEL | 117 | / | -: 1 | | IETER TYPE: UGH CELL?: | | Hanna | Other (specify |) |
| | | | -X | | URGE LOG | Yes | 1-1 0- | No | |
| Time (24 hr) | Volume (mL/ Gal.) | pH | EC (μS/cm) | Turbidity (ntu) | Temp.3% | ORP (mV) | D.O. | DTW | Other Observations (Colo |
| //05 | | 6.28 | 2003 | 1780 | | | (mg/L) | (ft) | Odor, Sheen,) |
| 1108 | initial 720 | 6.27 | 2006 | 1 | 19.18 | -27.7 | 0.74 | 16.56 | |
| 1100 | | C.24 | 7006 | 1.752 | 16.38 | -13.6 | 0.36 | 16.65 | |
| 1700 | 1440 | 6.28 | | 1000 | 19.06 | -12.4 | 0.28 | 16.67 | |
| 1117 | 2160 | | 2008 | 1.769 | 19.29 | -11.5 | 0.24 | 16.67 | |
| 1120 | 3600 | 6.29 | 2010 | 1795 | 19.32 | -10.6 | 0.22 | 16.68 | |
| | 760 | | | | | -10.1 | 0.13 | 13,68 | |
| | | | | | | | | | * |
| Total V | olume Purged: | 3.75 L | | Purge Rate: | 240 W | 1 L/wih | | | 80% Rechage = |
| | Purging Method | | 12 Volt | Peristaltic | Bailer | Waterra | | | |
| VELL SAMPLIN | | Pump | Pump | Pump | | ded is | 6.0 | | |
| VLLE OAMPLIN | | DTW at Time o | f Sampling: | 16,68 | | 0000 | | | |
| | | 2" Submersible Pump | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | |
| ANALYTES: | VOC's | dissolved metals | Hexavalent Chromium | | | | | | |
| | 99605 | 6010B/ | | | | | | | |
| PA Method: Field Filter? | 8260B no | 7470A yes | 7196A no | | | | | | |
| Bottles: | 3 voas | 1 500ml | 1 500ml | | | | | | |
| reservative: | HCI | HNO3 | none | | | | | | |
| | SAMPLE ID: | MW | -FP4 | A | | | | | |
| AS OA/OC SA | <u>IG:</u> AMPLE COLL | ECTED FOR | TUIC WELL | | | | | Y. (1980) 1980 | |
| | | | | | | | | YES | / NO |
| | SAMPLE ID: _ | | | | TYPE: R | insate Blank | | MS/MSD | Duplicate mbient Blank |
| OMMENTS: | | | | | | | | | |
| | | | | | - | | | | |



| 1100 | L ID: | U-FP4 | | Ī | | | | | |
|-----------------------------|--------------------------|---------------------|------------------------|----------------------|----------------------------|-------------------|----------------|--|---|
| +1 | Equipme | nt Decon | | - | | | INIT | IAL DTW (ft) | : 16.43 |
| Sounder | T | | Footvalve | - | | | DEPTH TO I | BOTTOM (ft) | |
| | Soap wa | ater wash | | 1 | | | WEL | L DIAM. (in) | ** |
| | Tap wa | ter rinse | | | | 14040 O. Jan 140 | | JMES (gals) | |
| \sim | | er rinse | |] | | n-3-0.04 (1-); n- | | 1"3"0.16 (2"); h"3" 13*1.5 (6"); h*3*0. | 0.26 (2.5"); h*3*0.38 (3"); h*3*0.69 83 (4.5') |
| PURGE DAT | | 1/16 | | | ING INTAKE: | | | near bott | |
| SAMPLE TIM SAMPLE DA | - 1. | //6 | - | | TUBING SIZE: ETER TYPE: | | Money many | Other (annuity | Other (specify): |
| PERSONNEL | 1 1 | 25 | _ | | UGH CELL?: | Yes | паппа | Other (specify No | |
| | | | | F | PURGE LOG | | | | |
| Time (24 hr) | Volume (mL/ Gal.) | pН | . EC (μS/cm) | Turbidity (ntu) | Temp. | ORP (mV) | D.O. (mg/L) | DTW (ft) | Other Observations (Co |
| 1218 | initial | 11.63 | 644 | 0.569 | 18.98 | -115.6 | 1.18 | 16.83 | |
| 1221 | 720 | 11.63 | 631 | 0.553 | 18.60 | - 148.3 | 0.68 | 16.86 | |
| 1224 | 1440 | 11.93 | 616 | 6.543 | 18.81 | -/3/.5 | 0.57 | 16.05 | |
| 1227 | 2160 | 2.09 | 6.15 | 0.543 | 18.67 | -119.8 | 0.57 | 17.08 | |
| 1230 | 2880 | 11.81 | 615 | 0.521 | 16.86 | - 277 | 0.57 | 17.05 | |
| Total V | olume Purged: | 2" | 12 Volt | Purge Rate: | 240 u | 16/m/h | | | 80% Rechage = |
| | Method | | Pump | Pump | Bailer | Waterra | | | |
| VELL SAMPLI | | | | - 06 | | | cated | | |
| | | DTW at Time o | | | | tul | , כייום | | |
| | Sampling Method | Cubmanilla | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | |
| ANALYTES: | VOC's | dissolved metals | Hexavalent Chromium | | | | | | |
| | | 6010B/ | | | | | | | |
| PA Method: Field Filter? | 8260B no | 7470A yes | 7196A no | | | | | | |
| Bottles: | 3 voas | 1 500ml | 1 500ml | | | | | | |
| reservative: | HCI | HNO3 | none | | | | | | |
| | SAMPLE ID: | mw- | FP4B | > | | | | | |
| A/QC SAMPLII /AS QA/QC S | <u>NG:</u> AMPLE COLL | ECTED FOR | THIS WELL | , | | | | VEC | / NO |
| | | | | | | | | | |
| | , SAMPLE ID: _ | | | | TYPE: F | Rinsate Blank | | MS/MSD | Duplicate mbient Bla |
| OMMENTS: | | | | | | | | | |
| | | | | | | | | - | |



| ater wash ter rinse er rinse | Footvalve | РИМР/ТИВІ | | E h*3*0.04 (1"); h*3 | DEPTH TO B WELI 3 VOLU 3 0.064 (1.25"); h' | OTTOM (ft): _ DIAM. (in): | 16.56 | |
|-------------------------------|--|--|---|--|--|--|---------------------------|---|
| ter rinse er rinse // G | Footvalve | PUMP/TUBI | | | WELI 3 VOLU 3*0.064 (1.25"); h' | _ DIAM. (in): IMES (gals): | | |
| ter rinse er rinse // G | | PUMP/TUBI | | h*3*0.04 (1"); h*3 | 3 VOLU 3*0.064 (1.25"); h | MES (gals): | | |
| ter rinse er rinse // G | | PUMP/TUBI | | h*3*0.04 (1"); h*3 | 3 VOLU 3*0.064 (1.25"); h | MES (gals): | | |
| er rinse | | PUMP/TUBI | | h*3*0.04 (1"); h*3 | 3*0.064 (1.25"); h | 3*0.16 (2"): h*3*0 | 26 /2 5"\· b*3*0 38 /3"\· | |
| 5 | - | PUMP/TUBI | | | h*: | 3*1.5 (6"); h*3*0.8 | 3 (4.5') | h*3*0.65 (4" |
| 1 | <u>u</u> | | NG INTAKE: | near top | near middle | near botto | om Custom(ft): | |
| 116 | | j | TUBING SIZE: | | | 287 1 USS 2003 CO | Other (specify): | |
| Street over the second | - | | ETER TYPE: | | Hanna (| Other (specify) | | |
| 2013 | <u>.</u> F | LOW THROU | | Yes | | No | | £5 |
| | EC | | Temp. | 000 | D.0 | DTW | Oth an Ohaamiatia | ma (Calaa |
| pН | (μS/cm) | (ntu) | (°C) | (mV) | (mg/L) | (ft) | | |
| 11.85 | 0.5% | 0.00 | 17.20 | , GO, 1 | 5.03 | 16.72 | | |
| 1156 | 3.589 | 615 | 18.56 | -7.3 | 4.75 | - 80 | | |
| 12,00 | 1530 | 6153 | 7.2 000 | -5.5 | 400 | 16.85 | | |
| 0.05 | (5 0 32) | 606 | 13, 45 | - 15 | 1000 | 16.80 | | |
| 12.08 | 0 530 | 607 | 1823 | -22.3 | 4.50 | 16.90 | | |
| | | | | | | | | |
| | | | | | | | | |
| | 17 | Purge Rate: | ZYOML | min | | | 80% Rechage = | |
| g Submoreible | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | | |
| DTW at Time | of Sampling: | 16.9 | 0 | | | | | |
| d Submersible | 12 volt Fump | Poristaltic Pump | Bailer | Waterra | | | | |
| dissolved metals | Hexavalent Chromium | | 1 | | | | | |
| 6010B/ 7470A | 7196A | | | | | | | |
| yes | no | | | | | | | |
| 1 500ml | 1 500ml | | | | | | | |
| HNO3 | none | | | | | | | |
| | d: 2" Submersible Pump DTW at Time 2" dissolved metals 6010B/ 7470A yes 1 500ml HNO3 | d: 2" Submersible Pump DTW at Time of Sampling: 2" ds Submersible Pump dissolved Hexavalent Chromium 6010B/ 7470A 7196A yes no 1 500ml 1 500ml HNO3 none | pH (μS/cm) (ntu) (ntu | pH (µS/cm) (ntu) (°C) (ntu) (| pH (μS/cm) (ntu) (°C) (mV) // / / / / / / / / / / / / / / / / / | pH (µS/cm) (ntu) (°C) (mV) (mg/L) (mg | PH | pH (μS/cm) (ntu) (°C) (mV) (mg/L) (ft) Odor, Sheen, (mg/L) (ft) Odor |



| nt Decon | Footvalve | PUMP/TUB | ING INTAVE | | DEPTH TO E WEL 3 VOLU 3*0.064 (1.25"); h | BOTTOM (ft): L DIAM. (in): JMES (gals): '3'0.16 (2"); h'3' | : |
|---------------------|---|--|---------------------------|--|--|---|--|
| er rinse | Footvalve | PUMP/TUB | ING INTAKE | | DEPTH TO E WEL 3 VOLU 3*0.064 (1.25"); h | BOTTOM (ft): L DIAM. (in): JMES (gals): '3'0.16 (2"); h'3' | |
| ter rinse | Footvalve | PUMP/TUB | ING INTAKE | | WEL 3 VOLU 3*0.064 (1.25"); r | L DIAM. (in): JMES (gals): *3*0.16 (2"); h*3*0 | |
| ter rinse | | PUMP/TUBI | ING INTAKE | h*3*0.04 (1"); h*: | 3 VOLU | JMES (gals): | • |
| er rinse | | PUMP/TUB | ING INTAKE | h*3*0.04 (1"); h*: | 3*0.064 (1.25"); h | *3*0.16 (2"); h*3* | |
| 16 | | PUMP/TUBI | ING INTAKE | h*3*0.04 (1*); h*: | 3*0.064 (1.25"); h | *3*0.16 (2"); h*3* | 0.26 (2.5"): h*3*0.38 (3"): h*3*0 (|
| 16 | _ | PUMP/TUB | ING INTAKE. | | 11) | 3*1.5 (6"); h*3*0.8 | B3 (4.5') |
| 16 | - | | | | near middle | near botto | om Custom(ft): |
| 1 | | | TUBING SIZE: | | (James) | 011 | Other (specify): |
| 17 MI | - 1 | | IETER TYPE: UGH CELL?: | | Hanna | Other (specify) No |) |
| | | | PURGE LOG | | | 1,0 | |
| pН | EC (μS/cm) | Turbidity (ntu) | Temp. | ORP (mV) | D.O. (mg/L) | DTW (ft) | Other Observations (C Odor, Sheen,) |
| 12.90 | 0.991 | 1/07 | 19.51 | -138.8 | 2.5 | 12.70 | |
| 12.89 | 0.980 | 1100 | 19.31 | -153.2 | 2.22 | 12.74 | |
| 17.98 | 6.982 | 1093 | 19.67 | -188.7 | 192 | 12 78 | |
| 12.91 | 0.981 | 1090 | 19,73 | -1855 | 1.87 | 17.79 | |
| 12.81 | 0 977 | 1087 | 19.69 | - 183.2 | 1.83 | 17.80 | |
| | | | | | | E | |
| 41 | | | 240 | 1 Prairie | | | |
| 2" | - 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | 80% Rechage = |
| DTW at Time | of Sampling: | 12,80 | | | u v | 2 | |
| 2" | 12 Volt Pump | Peristaltic Pump | Bailer | | | 9 | |
| dissolved metals | Hexavalent Chromium | | | | | | |
| 6010B/ | | | | | | | |
| yes | 7196A no | | | | | | |
| 1 500ml | 1 500ml | | | | | | |
| HNO3 | none | | | | | | |
| | 12,90 12,90 12,90 12,90 12,90 12,90 12,90 12,90 12,90 12,90 12,90 Submersible Pump 12" Submersible Pump dissolved metals 6010B/7470A yes 1500ml | PH (μS/cm) 12,90 0.99/ 12,87 0.980 17,98 6.987 12,91 0.961 17,99 0.977 2" Submersible Pump DTW at Time of Sampling: 2" Submersible Pump dissolved Pump dissolved Mexavalent Chromium 6010B/7470A 7196A yes no 1500ml 1500ml | PH | pH (μS/cm) (ntu) (°C) 12.90 0.99/ 1/07 19.5/ 12.87 0.980 1/00 19.3/ 12.91 0.981 1090 19.73 12.91 0.981 1090 19.73 12.91 0.991 1090 19.73 12.91 pump Peristaltic Pump Bailer DTW at Time of Sampling: 2.80 2" Submersible Pump Pump Pump Pump Bailer DTW at Time of Sampling: 2.80 2" Submersible Pump Pump Bailer Chromium Chromium Chromium Chromium Chromium Chromium G010B/7470A 7196A yes no 1500ml 1500ml | PH | PH | PH |



| | ME LOW THROU | UBING SIZE: ETER TYPE: JGH CELL?: URGE LOG Temp. (°C) | h*3*0.04 (1"); h* near top Horriba U22 | DEPTH TO E WELI 3 VOLU 3*0.064 (1.25"); h h* near middle | OTTOM (ft): L DIAM. (in): JMES (gals): | 0.26 (2.5"); h*3*0.3 83 (4.5") om Custom(Other (specif | 38 (3"); h*3*0.65 (· ft) : |
|-----------------|------------------------------|---|--|--|--|--|--|
| F EC (S/cm) | LOW THROL Pi Turbidity (ntu) | UBING SIZE: ETER TYPE: JGH CELL?: URGE LOG Temp. (°C) | h*3*0.04 (1"); h* near top Horriba U22 Yes ORP | DEPTH TO E WELI 3 VOLU 3*0.064 (1.25"); h h* near middle | L DIAM. (in): JMES (gals): 3°0.16 (2°); h'3°1.5 (6°); h'3°1.5 (6°); h'3°1.5 (corporation) | : : : 0.26 (2.5°); h*3*0.3 83 (4.5°) om Custom(Other (specifi | 38 (3"); h*3*0.65 (· ft) : |
| EC us/cm) | LOW THROL Pi Turbidity (ntu) | UBING SIZE: ETER TYPE: JGH CELL?: URGE LOG Temp. (°C) | h*3*0.04 (1"); h* near top Horriba U22 Yes ORP | WELI 3 VOLU 3*0.064 (1.25*); h h* near middle | L DIAM. (in). JMES (gals): 3º10.16 (2º); h'3º1 3º1.5 (6º); h'3º0.8 near botto | : 0.26 (2.5°); h*3*0.3 83 (4.5°) om Custom(Other (specif | 38 (3"); h*3*0.65 (· 'ft) : |
| EC us/cm) | LOW THROL Pi Turbidity (ntu) | UBING SIZE: ETER TYPE: JGH CELL?: URGE LOG Temp. (°C) | near top Horriba U22 Yes ORP | 3 VOLL 3*0.064 (1.25"); h h* near middle Hanna | JMES (gals): 3*0.16 (2"); h*3*0.8 3*1.5 (6"); h*3*0.8 near botto | : 0.26 (2.5"); h*3*0.3 83 (4.5') om Custom(Other (specifi | 38 (3"); h*3*0.65 (· 'ft) : |
| EC us/cm) | LOW THROL Pi Turbidity (ntu) | UBING SIZE: ETER TYPE: JGH CELL?: URGE LOG Temp. (°C) | near top Horriba U22 Yes ORP | 3°0.064 (1.25°); h h near middle Hanna | *3*0.16 (2"); h*3* 3*1.5 (6"); h*3*0.8 near botto Other (specify) | 0.26 (2.5"); h*3*0.3 83 (4.5") om Custom(Other (specif | ft) : |
| EC us/cm) | LOW THROL Pi Turbidity (ntu) | UBING SIZE: ETER TYPE: JGH CELL?: URGE LOG Temp. (°C) | Horriba U22 Yes | near middle Hanna (| near botto Other (specify) | om Custom(Other (specif | |
| EC us/cm) | LOW THROL Pi Turbidity (ntu) | UBING SIZE: ETER TYPE: JGH CELL?: URGE LOG Temp. (°C) | Horriba U22 Yes | | -500 | Other (specifi | |
| EC (S/cm) | Turbidity (ntu) | JGH CELL?: URGE LOG Temp. (°C) | Yes | | -500 |) | |
| EC (S/cm) | Turbidity (ntu) | Temp. | ORP | | No | | |
| 15/cm) | Turbidity (ntu) | Temp. | | | | | |
| 15/cm) | (ntu) 463 | (°C) | | 12200200 | | | |
| 24/1/ | | 100 | 20 10 | D.O. (mg/L) | DTW (ft) | | vations (Color Sheen,) |
| \$66 | 1 | 18,04 | 50.1 | 2.3/ | 12.24 | | |
| Carrier Street | | 15.79 | -601 | 1.16 | 12.19 | | |
| 3/2 | 423 | 18:75 | - 7/, 2 | 0.97 | 12.20 | | |
| 376 | 425 | 18.79 | -80.1 | 5,92 | 12.22 | | |
| .376 | 2/26 | 15.82 | -79-2 | J. = | 42.25 | | |
| | | | | 4: | | | |
| | Burgo Boto | 341) 111 | 1-1000 | | | 200/ 5 | |
| 2 Volt ump (| Peristaltic Pump | Bailer | Waterra | æ | | 60% Rechag | e = |
| npling: _ | 12.25 | | | 4. 3 | | | |
| Volt ump | Peristaltic Pump | Bailer | Waterra | | | | |
| omium | | | | | | | |
| 96A | | | | | | | |
| no | | W. | | | | | |
| 00ml | | | | | | | |
| one | | | | | | | |
| n : ' u u av | ppling: | Volt Peristaltic Pump pling: /2.25 Volt Peristaltic Pump valent mium 66A 0 | Volt Peristaltic Pump Bailer pling: /2.25 Volt Peristaltic Pump Bailer valent mium Bailer pling: /2.25 Volt Peristaltic Pump Bailer poralent mium Bailer pling: /2.25 | pling: /2.25 Volt Peristaltic Pump Bailer Waterra Valent mium JOGA JOMI JOH JOH JOH JOH JOH JOH JOH JO | Purge Rate: 240 mL/m/h Volt Peristaltic Pump Bailer Waterra Poling: 12.25 Volt Peristaltic Pump Bailer Waterra Waterra Waterra ### Acdical Pump Waterra ### Acdical Pump Waterra ### ### Acdical Pump Waterra ### Acdical | Purge Rate: 240 mU/m/h Volt Peristaltic Pump Bailer Waterra Volt Peristaltic Pump Bailer Waterra Waterra | Purge Rate: 240 mL/m/h Peristaltic Pump Bailer Waterra Poling: 12.25 Volt Peristaltic Pump Bailer Waterra Waterra Waterra Waterra ### Acad cached Fully 1964 ### A |



| WEI | NO.: 00 | PA | 111/1/- | 9 | × | | | | |
|---|--|-------------------|--------------------|----------------------|-----------------|------------------|---------------------|---|---|
| | LID. THE | | 70100 | ī′ | 2, | | | | 15 4141 |
| | Equipmen | nt Decon | | - | A | | INITI | AL DTW (ft) | : 12.44 |
| Sounder | | | Footvalve | | 9 | | | | I |
| | Soap wa | ter wash | | | | | | | : |
| | Tap wat | er rinse | | | | | 3 VOLU | JMES (gals) | |
| \sim | DI wate | er rinse | | | | h*3*0.04 (1"); h | *3*0.064 (1.25"); h | 1*3*0.16 (2"); h*3* 3*1.5 (6"); h*3*0. | 0.26 (2.5"); h*3*0.38 (3"); h*3*0.65 (|
| PURGE DAT | | 116 | - | PUMP/TUB | NG INTAKE | near top | near middle | near bott | om Custom(ft): |
| SAMPLE TIN | - 1. | . // . | - | | TUBING SIZE | | | | Other (specify): |
| SAMPLE DA | | 1/6 | - | | ETER TYPE | | Hanna | Other (specify |) |
| PERSONNEI | -iJ. V | WS | | FLOW THRO | | Yes | | No | |
| 1 - 1666 | Volume | | EC | | URGE LOG | 80-21 | | l | |
| Time (24 hr) | (mL/ Gal.) | pН | (μS/cm) | Turbidity (ntu) | Temp. | ORP (mV) | D.O. (mg/L) | (ft) | Other Observations (Color Odor, Sheen,) |
| 1510 | initial | 13.38 | 0.610 | 672 | 19:32 | - 18.6 | 1.16 | 12.48 | |
| 5/3 | 720 | 13.07 | 0.473 | 527 | 19.55 | - 184,5 | 0.46 | 12.54 | |
| 14.16 | 1440 | 21,20 | 0.482 | 520 | 19,47 | -19.5 | 0.37 | 1158 | |
| 1519 | 7160 | 14.56 | 0.500 | 558 | 13.5/ | -199.2 | 0.35. | 12,00 | |
| 1522 | 2880 | 14.50 | 0:511 | 560 | 19:53 | -199.8 | 0.34 | 12.61 | |
| Total | /olume Purged: Purging Method | 2" Submaraible | 12 Volt Pump | Purge Rate: | 240 u Bailer | Waterra | 2 | 6 | 80% Rechage = |
| VELL SAMPL | ING: | i ump | | | | | ledirohe | , | |
| | ı | DTW at Time o | of Sampling: | 12.61 | | | WUNN, | | |
| | Sampling | 2" Submersible | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | , | | |
| | VOC's | Pump dissolved | Hexavalent | Fullip | - 5 | - | | | |
| ANALYTES: | VOUS | metals | Chromium | | | | | | |
| DA Mester I | 8260B | 6010B/ 7470A | 7196A | | | | | | |
| -A wethod: | no | yes | no | | | | | | |
| Field Filter? | | | | | li. | | | | |
| Field Filter? Bottles: | 3 voas | 1 500ml | 1 500ml | | | | | | |
| Field Filter? Bottles: | 3 voas HCl | HNO3 | 1 500ml none | | | | | | 1 |
| Field Filter? Bottles: reservative: | 3 voas HCl SAMPLE ID: | | | | . 92 | 2 | | | / |
| Field Filter? Bottles: reservative: A/QC SAMPL | 3 voas HCl SAMPLE ID: | HNO3 | none - 9 | ? | ×5# | - | | YES | / NO |
| Field Filter? Bottles: reservative: A/QC SAMPL JAS QA/QC S | 3 voas HCI SAMPLE ID: ING: | HNO3 | none - 9 THIS WELL | | | Rinsate Blank | | YES | |
| Field Filter? Bottles: reservative: A/QC SAMPL JAS QA/QC S | 3 voas HCI SAMPLE ID: ING: SAMPLE COLL | HNO3 | none - 9 THIS WELL | | | Rinsate Blank | · | | |
| reservative: NA/QC SAMPL | 3 voas HCI SAMPLE ID: ING: SAMPLE COLL | HNO3 | none - 9 THIS WELL | | | Rinsate Blank | , | | |

Il sampling form - TPH-g-BTEX.xls

| | | | | | Gauging Sh | eet | | Name Date | 4 Nav | |
|---------------|--------------------|------------------------------------|-----------------------------------|---------------------------|---------------------------|-------------|---------------------------|---------------------------|--------------------|----------|
| Water Level S | Survey | Francis Plati | ng - Frog Por | nd Site | - | | | | ~~~ |) |
| Well ID | Casing Diameter | Top of Casing (ft above msl) | TD (ft bgs) (from well log) | Top of Screen (ft bgs) | TD Actual Guaged (bgs) | Time (24hr) | Depth to Water Trial 1 | Depth to Water Trial 2 | Decon Equipment | Comments |
| MW-FP1 | 2 | 15.30 | <u> </u> | | _ | 0903 | 15.30 | 15.30 | कु मास्टि | |
| MW-FP2 | 2 | 13.70 | | - | | 0835 | 13.70 | 13.70 | SE-HIZ-S | |
| MW-FP3 | 2 | 15.31 | | | | 0855 | 15.31 | 15.31 | | |
| MW-FP4A | 2 | 15.43 | ~ | | | 0545 | 15.43 | 15-42 | | |
| MW-FP4B | 2 | 15.62 | - | | _ | 0543 | 15.6% | 15-6ã | | |
| MW-FP5 | 2 | 15.50 | - | | | 0840 | 15.50 | 15,50 | | |
| MW-FP6 | 2 | 11.20 | ~ | | | 0903 | 11.20 | 11.20 | | |
| MW-FP7B | 2 | 13.90 | | | | 0912 | 10.90 | 10.90 | | |
| MVV-9 | 2 | 11-33 | | | | 0915 | 11.33 | 11.33 | 4 | |

3/29/2016 8:01 PM



| ft) 15-30 ft) 2" 13 15-4 15-5 13 15-4 15-5 13 15-4 15-5 Custom(ft): Other (specify): Other Observations (Color, |
|--|
| ft) |
| ft) |
| in) 2" 13 12" Clow 10.16 (2); h'3'0.26 (2.5); h'3'0.38 (3); h'3'0.6 Custom(ft): Other (specify): Other Observations (Color, |
| 3 10 40 00 0.16 (2), h'3'0.28 (2.5), h'3'0.8 (3), h'3'0.8 |
| Other (Specify): Other Observations (Color, |
| Custom(ft): Other (specify): Other Observations (Color, |
| Other (specify): Other Observations (Color, |
| Other Observations (Color, |
| 3 |
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| 80% Rechage = |
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| | IAME Francis Plat | | | - | | | | | |
|-------------------------------|----------------------|--------------------------------|-----------------|--|------------------|-----------------|----------------------|------------------------|---|
| :.PROJEC | | 06-FP-002 ドタン | | -2 | | | | | |
| :WE | TT ID WW | 110 | | ñ | | | | | |
| est. | Equipmen | t Decon | | 1 | | | :11N | IITIAL DTW (ft) | 13.70 |
| Sounder | | | Footvalve | | | | :DEPTH T | O BOTTOM (ft) | |
| \prec | Soap wat | ter wash | |] | | | :W | ELL DIAM. (in) | 2" |
| X | Tap wat | er rinse | | | | | :VOL | .UMES (gals) 3 | low slow |
| × | DI wate | | | | | | h*3*0.04 (1"); h*3*(| 0.084 (1.25°); h°3°0.1 | 6 (27); h*3*0.28 (2.57); h*3*0.38 (37); h*3*0.6 |
| PURGE DATE: | 3-30-14 | | _ | :PUMP/T | UBING INTAKE | near top n | ear middle | ear bottom C | ustom(ft): |
| SAMPLE TIME: | | | - | | TUBING SIZE | 1/4" X 3/8" | | 3/8" X 1/2" | Other (specify): |
| SAMPLE DATE | | | _ | | :METER TYPE | | | | |
| PERSONNEL: | HINES | 14 × 1 | | | HROUGH CELL | Yes | | No | |
| | Т | | | T | PURGE LOG | 1 | | 1 | <u> </u> |
| Time (24 hr) | Volume m=/m Gelij | рH | EC (mS/cm) | Turbidity ntu) | Temp. | ORP (| D.O. (mg/L) | DTW (ft) | Other Observations (Color, |
| 0920 | 120ml | 18.84 | .232 | \ / | 16.03 | -19.1 | 6.01 | 13.70 | |
| 0925 | Isomelm | 3.40 | .228 | | 17.75 | -38.5 | 3.36 | 13.70 | |
| 0930 | 250 mulm | 7.87 | .229 | | 13.26 | -14.5 | 3.30 | 13.74 | |
| 1935 | 800mmlm | 7.77 | .223 | | 13.24 | -6.9 | 3.22 | 13.74 | |
| 0940 | ZUAMELINS | 7.58 | .229 | V | 18.37 | 2.9 | 3.23 | 13,74 | |
| 0945 | 200mllm | 7.55 | . 228 | | 18.27 | 4.6 | 3.22 | 1374 | |
| 0220 | ZOUNLIM | 7.51 | .223 | | 18.25 | 9.9 | 3.20 | 13.74 | |
| 0955 | 200me/m | 7.50 | .228 | // | 18.24 | 5.1 | 3.18 | 13.74 | |
| <u> </u> | | | | // | 1 | | | | |
| :To | tal Volume Purged | 5750 | ML | Purge Rate | 200 mc | lm | | 1 | 80% Rechage = |
| | | 2" Submersible | | Peristaltic Pump | | - , | | | |
| | Method | l Pump | 12 VOR PUHIP | Peristaluc Purit | Bailer | Waterra | | | |
| WELL SAMPLING | <u>3:</u> | | ime of Sampling | 1374 | | | | | |
| | | | | | - | | | | |
| | Sampling | 2" Submersible I Pump | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | |
| ANALYTES: | VOCs | Metais | CrVI | | | | | | |
| EPA Method: | 8260 | 6010B | 7196A | | | | | | |
| Field Filter? | | yes | no | - | | 1 | | | |
| Bottles: Preservative: | | 1 500 poly HNO ₃ | 1 250 ml poly | | | - | | | |
| coci vauve: | SAMPLE ID: | | rone FP2 | | | J. | | | |
| QA/QC SAMPLIN WAS QA/QC SA | | | | | 5 | | | YE | s 🚾 |
| : | IF SO, SAMPLE ID |) | | | _ TYPE: | : Rinsate Blank | | MS/MSD | Duplicate Imbient Blank |
| COMMENTS: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Well Repair (chec | k if needed): | | T. T. BIMAN | Address of the Control of the Contro | | | | | |
| New lock | | Cracked o | or Damaged PVC | ; | Other (specify): | | | | |
| | | | · · · | | | | | | |



| :PROJECT N | AME Francis Plat | ting - Frog Pond | | - | | | | | |
|---------------------------------|----------------------------|------------------------|--|---|-----------------------------|---------------|--------------|---|---|
| :.PROJEC | | 06-FP-002 | and the latest terminal termin | _3 | | | | | |
| :WEI | LLID MW | - E. b. | | | | | | | |
| | Equipmen | t Decon | | | | | :11: | NITIAL DTW (ft) | 15.31 |
| Sounder | | | Footvalve | | | | :DEPTH T | O BOTTOM (ft) | |
| 1 | 8 | b | | 1 | | | | | n 1) |
| 7 | Soap wat | | | ł | | | | ELL DIAM. (in) | |
| | Tap wate | er rinse | | - | | | | _UMES (gals) 3 0.064 (1.257); h*3*0.14 | 6 (2); h*3*0.26 (2.57); h*3*0.38 (37); h*3*0.65 |
| LX. | Di wate | *** | | J | | | | | |
| PURGE DATE: | 3-30- | | - | :PUMP/TI | UBING INTAKE | near top n | ear middle (| near bottom C | ustom(ft): |
| SAMPLE TIME: | 0 0 1 | | - | | TUBING SIZE | | | 3/8" X 1/2" | Other (specify): |
| SAMPLE DATE: | | wfor | - | | :METER TYPE | | | | |
| PERSONNEL: | H. M. | ~ (is) | - | | IROUGH CELL | Yes | | No | 4873 |
| | | 1 | Ţ | , , , , , , , , , , , , , , , , , , , | PURGE LOG | | T . | | |
| Time (24 hr) | Volume | рН | EC (mS/cm) | Turbidity (ntu) | Temp. (^O C) | ORP mV) | D.O. (mg/L) | DTW (ft) | Other Observations (Color, |
| 1635 | 150 milm | 7.72 | .700 | 1 | 19.33 | -13,6 | 3.39 | 15.48 | |
| 1040 | 150mllm | 7.00 | .710 | | 19.64 | 28.4 | 2.64 | 15.54 | |
| 1095 | 150NL/m | 6.94 | 711 | | 19.67 | 35.7 | 2.56 | 15.59 | |
| 1020 | 150mlm | 6.92 | .712 | | 19.88 | 38.7 | 2.50 | 15.63 | |
| 1055 | 150mL/m | 6.91 | .714 | X | 19.91 | 39.3 | 2.48 | 15.66 | |
| | | | | // | | 3 () 3 | | 1-144 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | / | | | | | |
| ·Tot | al Volume Purged | 2000 im | | Pours Potes | 150m2 | | | | OOM Destance |
| . 101 | | 6.8 | | Purge Rate: | 17-800 | IAA (| | | 80% Rechage = |
| | Method | 2" Submersible Pump | 12 Voit Pump | Peristaltic Purop | Bailer | Waterra | | | |
| WELL SAMPLING | <u>i:</u> | | | 1-10 | | | | | |
| | | :DTW at Ti | me of Sampling | 15.66 | | | | | |
| | Sampling Method | 2" Submersible Pump | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | |
| ANALYTES: | VOCs | Metals | CIVI | | |) | | | |
| EPA Method: | 8260 | 6010B | 7196A | | | | | | |
| Field Filter? | no | yes | no | | | | | | |
| Bottles: | 3 voas | 1 500 poly | 1 250 ml poly | | | | | | |
| Preservative: | HCI | HNO ₃ | none | | | | | | |
| | SAMPLE ID: | Mu- | EB3 | | | | | | |
| QA/QC SAMPLING WAS QA/QC SAI | _ | ED EOD TUIC | WELL 2 | | | | | | a |
| TENO WINGO SIN | MPLE COLLECT | ED FOR THIS | WELL ! | | | | | YES | STANG |
| :II | F SO, SAMPLE ID | | 163 | | ТҮРЕ: | Rinsate Blank | | MS/MSD | Duplicate imbient Blank |
| | | | | | SA 40 | 13 - 453 | | | |
| | | | | *************************************** | | | | | |
| Well Repair (check New lock | (if needed): New Bolts | Cracked o | r Damaged PVC | | Other (specify): | | | | |
| | | | | - | | | | | |



| Sounder | Equipment | Decon | Fryx | i | | | | | |
|---------------------------------------|---|--|--|--|--------------------|--------------|----------------------|---------------------------|---|
| Sounder | Equipment | Decon | | | | | | | |
| Sounder | | | | | | | :IN | ITIAL DTW (ft) | 15.42 |
| 女 | | | Footvalve | | | | :DEPTH TO | D BOTTOM (ft) | |
| 2 | Soap wat | er wash | | | | | | ELL DIAM. (in) | |
| X | Tap wate | r rinse | | | | | :VOL | UMES (gals) 3 | |
| | Di wate | and the same of th | | İ | | | n 3 0.04 (1), n 3 0 | 1.004 (1.25), 11 3 0, 11 | 5 (2), ii 3 0.26 (2.3), ii 3 0.36 (3), ii 3 0. |
| URGE DATE: | 3-10 | | -2. | :PUMP/ | TUBING INTAKE | near top ne | ear middle | near bottom Ci | ustom(ft) : |
| AMPLE TIME: | 1244 | | | | TUBING SIZE: | | | 3/8" X 1/2" | Other (specify): |
| AMPLE DATE: | 3-30- | sing on | -0 | | :METER TYPE | | | A Pulled | 20-1 |
| ERSONNEL: | 6610 | | | :?FLOW T | HROUGH CELL | Yes | | No | |
| · · · · · · · · · · · · · · · · · · · | | 1 | 1 | 1 | PURGE LOG | | | 1 | |
| me (24 hr) | Volume | pH | EC (mS/cm) | Turbidity ntu) | (O _C) | ORP (mV) | D.O. (mg/L) | DTW (ft) | Other Observations (Colo |
| 220 | Somelan | 7.20 | 1.468 | 1 | 19.56 | 125.3 | 2,97 | 15.53 | Kellan fright |
| 225 | 150ml/m | 6.54 | 1.43 & | | 19.45 | 170.3 | 17.0 | 15.53 | 17 |
| 1230 | 153mulm | 6.40 | 1.428 | | 19.50 | 176.9 | 0.72 | 15.53 | XX 1) |
| 1235 | 150mlm | 6.38 | 1.432 | $ \setminus $ | 19.58 | 178.2 | 0.76 | 15.53 | n 1) |
| 240 | 150m/m | 6.37 | 1.433 | | 19.66 | 178.3 | 0.75 | 15.53 | AL N |
| | | | | T 7 | 19.64 | | | | |
| | | | | 1 1 | 1100 | 1 | | | |
| | | | | | 11.01 | | | | |
| | | | | | 11.64 | | | | |
| | | | | | | | | | |
| ·Tot | al Volume Dumed | 2000 mm | | Purse Pat | | ~ | | | 80% Rechane = |
| :Tot | al Volume Purged | | - B | _ | o: Samel | | | | 80% Rechage = |
| :Tot | - | 2" Submersible | - B | Purge Rate | o: Samel | Waterra | | | 80% Rechage = |
| | Purging Method | 2" Submersible Pump | 12 Volt Pump | Peristaltic Pum | p) Bailer | | | | 80% Rechage = |
| :Tot | Purging Method | 2" Submersible Pump | - B | Peristaltic Pum | p) Bailer | | | | 80% Rechage = |
| | Purging Method | 2" Submersible Pump :DTW at T 2" Submersible | 12 Volt Pump | Peristaltic Pum | p) Bailer | | | | 80% Rechage = |
| | Purging Method | 2" Submersible Pump :DTW at T 2" Submersible | 12 Volt Pump | Peristaltic Purm | p) Bailer | Waterra | | | 80% Rechage = |
| ELL SAMPLING | Purging Method | 2" Submersible Pump :DTW at T 2" Submersible Pump | 12 Volt Pump | Peristaltic Purm | p) Bailer | Waterra | | | 80% Rechage = |
| ANALYTES: EPA Method: Field Filter? | Purging Method : Sampling Method | 2" Submersible Pump :DTW at T 2" Submersible Pump Metals | 12 Volt Pumpx ime of Sampling 12 Volt Pump | Peristaltic Purm | p) Bailer | Waterra | | | 30% Rechage = |
| ELL SAMPLING ANALYTES: EPA Method: | Purging Method Sampling Method VOCs 8260 | 2" Submersible Pump :DTW at T 2" Submersible Pump Metals 6010B | 12 Volt Pump ime of Sampling 12 Volt Pump CrVI 7196A | Peristaltic Purm | p) Bailer | Waterra | | | 80% Rechage = |



| :PROJECT N | AME Francis Plat | ing - Frog Pond | | 2 | | | | | |
|-------------------|---------------------------|--------------------------------|----------------|--|------------------|---|--|--|--|
| :.PROJEC | | 06-FP-002 | | - | | | | | |
| :WEI | TID MM | -FP4B | | | | | | | |
| | Equipment | Decon | | | | | :II: | IITIAL DTW (ft) | 15.62 |
| Sounder | | | Footvalve | | | | :DEPTH T | O BOTTOM (ft) | |
| 1 | Soap wat | ar wash | | 1 | | | | ELL DIAM. (in) | 2.1 |
| 1 | | | | 1 | | | | | |
| 2 | Tap wate | er rinse | | - | | | :VOL h*3*0.04 (17); h*3*6 | .UMES (gals) 3 0.064 (1.257); h*3*0.1 | 6 (27); h*3*0.26 (2.57); h*3*0.38 (37); h*3*0.65 |
| <u> </u> | Di water | |] | | | | | | |
| PURGE DATE: | 3-30- | 10 | á | :PUMP/T | UBING INTAKE | | near middle | | ustom(ft): |
| SAMPLE TIME: | 7 2 4 | 14 | - | | TUBING SIZE: | | | 3/8" X 1/2" | Other (specify): |
| SAMPLE DATE: | Ne | | - | OF OUT | :METER TYPE | | | | See Control of the Co |
| PERSONNEL: | 7.110 | | | | HROUGH CELL | Tes | | No | |
| | T | | 1 | T | PURGE LOG | 1 | 7 | 1 | |
| Time (24 hr) | Votume | pН | EC (mS/cm) | Turbidity ntu) | (OC) | ORP mV) | D.O. (mg/L) | DTW (ft) | Other Observations (Color, (|
| 1138 | isomulm | 3.15 | .394 | 1 1 | 17.94 | -8.8 | 4.08 | 15.68 | |
| 1143 | 150mc/m | 7.90 | .420 | | 18.60 | -6.4 | 0,33 | 15.77 | |
| 1148 | 150m/m | 7.67 | .450 | | 13.53 | 14.7 | 0.21 | 15.85 | |
| 11 63 | 15am/m | 7.61 | 024. | | 18,77 | 10.2 | 0.21 | 15.91 | |
| 1158 | | 7.61 | - 449 | \ | 1 | 10.6 | 0.21 | 16.01 | |
| | 150mlm | | .450 | | 18.66 | _ | | 16.35 | |
| 1203 | 150mclm | 7.61 | .439 | | 18.68 | 10.9 | 0.21 | 16:25 | |
| 15 | | | 1 | | | | - | - | |
| | | | | | | | - | | |
| | L <u> </u> | | | | | | | | |
| :Tot | al Volume Purged | 3,500m | 2 | Purge Rate | 120mr/1 | ^ | | | 80% Rechage = |
| | | 2" Submersible | 12 Volt Pums | Peristaltic Pump | Bailer | Waterra | | | |
| | Method | Pump | | |) | *************************************** | | | |
| WELL SAMPLING | <u>ì:</u> | | | 16.05 | | | | | |
| | | :DTW at Ti | me of Sampling | 16,65 | = 12 | | | | |
| | Sampling Method | 2" Submersible Pump | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | |
| ANALYTES: | VOCs | Metals | Crv | | | | | | |
| EPA Method: | 8260 | 6010B | 7196A | | | | | | |
| Field Filter? | no | yes | no | | | Į | | | |
| Bottles: | 3 voas | 1 500 poly HNO ₃ | 1 250 ml poly | | | | | | |
| Preservative: | HCI | SCHOOL STREET | none | 1 | | 1 | | | |
| QA/QC SAMPLIN | SAMPLE ID: | mw | ERAB | | -0. | | | | |
| | <u>u.</u> Mple collect | ED FOR THIS | WELL? | | | | | YE | S (NO) |
| | 700 044M F ID | | | | | ni i ni i | | | |
| :I COMMENTS: | F SO, SAMPLE ID | | | | TYPE | Rinsate Blank | | MS/MSD | Duplicate imbient Blank |
| | | 1 to make 460 | | | | | | | |
| | | | | | | | | | |
| Well Repair (chec | | | _ | | | | | | |
| New lock | New Bolts | Cracked o | r Damaged PVC | | Other (specify): | NA-2408-4-15 | Nowe and the | | |



| Equipment Docon Footvalve | :PROJECT N | | 06-FP-002 | | == | | | | | | |
|---|-------------------|--|--|---|--|------------------|-----------------|---------------------|-------------------------|----------------------------|-----------------------|
| Soap water wash Tap water rinse Divater | :WEI | TTID WY | 7-462 | 0 | 7 0 - 2 | | | | | | |
| Soap water wash Tap water rinse Divater | | Equipment | t Decon | | | | | :IN | IITIAL DTW (ft) | 15.50 | <u> </u> |
| Tap water rinse Di | Sounder | | | Footvalve | | | | | | - | |
| Tap water rinse Di | 1 | Soap wat | ter wash | | 1 | | | :W | ELL DIAM. (in) | 2" | |
| Pump/TUBING INTAKE near top near middle near bottom Custom(ft): | 7 | | | | 1 | | | | | | ، لــــ |
| PUMP/TUBING INTAKE near top near middle | 7 | | | | 1 | | | h*3*0,04 (1"); h*3* | 0.064 (1.25°); h°3°0.16 | 3 (27); h*3*0.26 (2.57); h | °3°0.38 (3°); h°3°0.6 |
| ### Sall PH FC Tyrbidity Temp. Oc. ORP mV D.O. (mg/L) DTW Other Observations (Color, ms/L) T. 3 T. 3 | PURGE DATE: | The second secon | The second secon | | .: PUMP/T | UBING INTAKE | near top r | near middle | near bottom Cu | ıstom(ft) : | |
| Purge Log PH EC (mS/cm) Turbidity (ntu) Temp. (Oc) ORP mV) D.O. (mg/L) DTW (ft) Other Observations (Color, 10.3 to 1.3 to 1 | SAMPLE TIME: | | | -0 -0 | | TUBING SIZE | 1/4" X 3/8" | | 3/8" X 1/2" | Other (specify): | 7/72 5 |
| Purge Log | SAMPLE DATE: | | | -10 | | | | | | | |
| Dotter D | PERSONNEL: | 7/12 | ander | | | | (Yes) | | No | | |
| PH | <u> </u> | | 1 | 1 | T | 1 | 1 | | | | |
| Sampling 2" Submersible 12 Volt Pump Peristaltic Pump Bailer Waterra | (24 hr) | Volume Sal.) | рН | | | (OC) | | D.O. (mg/L) | | Other Obser | vations (Color, |
| | 1105 | 200 mclm | 7.19 | .370 | $\langle \cdot \rangle$ | 17.83 | 42.1 | 6.97 | 15.54 | | |
| Purgling 2" Submersible 12 Volt Pump Peristatic Pump Bailer Waterra | 1110 | 15amilm | 7.34 | ,367 | | 18.01 | 52.9 | 5.50 | 15.69 | | |
| Diume Purged 2 Submersible 12 Volt Pump Peristatic Pump Bailer Waterra | 1115 | 150 mu/m | 7.41 | 363 | | 17.93 | 52.1 | 5.57 | 15.69 | | |
| Purge Rate: Purgling 2" Submersible Pump Peristallic Pump Bailer Waterra Sampling 2" Submersible Pump Peristallic Pump Bailer Waterra **DTW at Time of Sampling 5 | 1120 | 750mulm | 7.42 | .365 | | 17.97 | 52.0 | 5.59 | 15.69 | | |
| Purging 2" Submersible Pump Peristalfic Pump Bailer Waterra :DTW at Time of Sampling 5 5 Sampling 2" Submersible Pump Peristaltic Pump Bailer Waterra VOCs Metals C(V) | | | | | | | | | | | |
| Purging 2" Submersible Pump Peristalfic Pump Bailer Waterra :DTW at Time of Sampling 5 5 Sampling 2" Submersible Pump Peristaltic Pump Bailer Waterra VOCs Metals C(V) | | | | | 1 | | | | | | |
| Purging 2" Submersible Pump Peristalfic Pump Bailer Waterra :DTW at Time of Sampling 5 5 Sampling 2" Submersible Pump Peristaltic Pump Bailer Waterra VOCs Metals C(V) | | | | | | * | | | | | |
| Purging 2" Submersible Pump Peristalfic Pump Bailer Waterra :DTW at Time of Sampling 5 7 Sampling 2" Submersible Pump Peristalfic Pump Bailer Waterra VOCs Metals CrVI | | | | | | + | | | | | |
| Purging 2" Submersible Pump Peristalfic Pump Bailer Waterra :DTW at Time of Sampling 5 7 Sampling 2" Submersible Pump Peristalfic Pump Bailer Waterra VOCs Metals CrVI | | | | | | | | + | | | |
| Purging 2" Submersible Pump Peristalfic Pump Bailer Waterra :DTW at Time of Sampling 5 7 Sampling 2" Submersible Pump Peristalfic Pump Bailer Waterra VOCs Metals CrVI | ·Toi | tal Volume Dumed | 2 (30 " | N | Duma Date | 1 501-1 | 100 | | | 204 Pachaga | |
| Sampling 2" Submersible 12 Volt Pump Peristaltic Pump Bailer Waterra | .10 | | | | _ | | - | | | on to treestage - | |
| Sampling Method 2" Submersible Pump 12 Volt Pump Peristaltic Pump Bailer Waterra VOCs Metals CrVI ———————————————————————————————————— | | Method | l Pump | 12 VOIL PUMP | Crenstanic Pum | Danei | AAGRETTA | | | | |
| Sampling Method 2" Submersible Pump 12 Volt Pump Peristaltic Pump Bailer Waterra VOCs Metals CrVI ———————————————————————————————————— | WELL SAMPLING | <u>}:</u> | | | 5 69 | | | | | | |
| Method Pump 12 Volt Pump Ballet Volter VOCs Metals CrVI CrVI 8260 6010B 7196A CrVI no yes no CrVI 3 voas 1 500 poly 1 250 ml poly The critical Pump HCI HNO3 none The critical Pump | | | | | 1 2 1 | _ | | | | | |
| 8260 6010B 7196A no yes no 3 voas 1 500 poly 1 250 ml poly HCI HNO3 none | | | | 12 Volt Pump | Peristaltic Pum | p Bailer | Waterra | | | | |
| no yes no 3 voas 1 500 poły 1 250 mł poły HCl HNO3 none | ANALYTES: | VOCs | Metals | CtVI | | | | | | | |
| 3 voas 1 500 poly 1 250 ml poly HCI HNO3 none | EPA Method: | 8260 | 6010B | 7196A | | | _ | | | | |
| HCI HNO3 none | Field Filter? | no | | | ļ | - | - | | | | |
| Tion I tion | | | | | | | 17. | | | | |
| | Preservauve: | | | THE RESERVE OF THE PERSON NAMED IN | | | 1 | | | | |
| SAMPLE ID: MW-FB5 | EPA Method: | Wethod VOCs 8260 no 3 voas HCt SAMPLE ID: | Metals 6010B yes 1 500 poly HNO3 | 12 Volt Pump CrVI 7196A no 1 250 ml poly none | Peristaltic Puri | p Bailer | Waterra | | | _ | |
| | | | | | | | | | | | |
| LE COLLECTED FOR THIS WELL? YES NO | | IF SO, SAMPLE ID |) | | | TYPE | : Rinsate Blank | | MS/MSD | Duplicate | imbient Blank |
| | COMMENTS: | | | 47 | | | | | | | |
| | | | | | | | | | | | |
| | Vell Repair (chec | k if needed): | | | | | - | | | | |
| D, SAMPLE ID | New lock | | Cracked | or Damaged PVC | | Other (specify): | | | | | |
| D, SAMPLE ID | | | | | | ,-FJ/ | | | | | |



| :PRO | JECT N | AME Francis Plat | ting - Frog Pond | | _ | | | | | |
|-----------|------------|-------------------|------------------------|----------------|--|------------------|---------------|-------------|----------------|--|
| :.Р | ROJEC | | 06-FP-002 | | <u> </u> | | | | | |
| | :WEI | TID WV | -F86 | | | | | | | |
| | | Equipmen | t Decon | | | | | :11: | NITIAL DTW (ft | 11.20 |
| Sou | nder | | | Footvalve | | | | :DEPTH Т | O BOTTOM (ft | |
| 1 | 1 | Saarwat | las wash | | | | | | • | - 0 |
| 2 | \sim | Soap wat | | | 1 | | | | /ELL DIAM. (in | |
| | 7 | Tap wate | er rinse | | - | | | | LUMES (gals) 3 | 6 (27), h'3'0.26 (2.57), h'3'0.38 (37), h'3'0.65 |
| | <u> </u> | DI wate | | | | | | A | · 10 - 10 | |
| PURGE | | 3.30 | | - | :PUMP/T | UBING INTAKE | | ear middle | | ustom(ft): |
| SAMPL | | 1910 | -18 | _ | | TUBING SIZE | 100000 | | 3/8" X 1/2" | Other (specify): |
| SAMPLI | | | anden | 2 | | :METER TYPE | | | | |
| PERSO | NNEL: | M.V. | Cooper | | | HROUGH CELL | Yes | | No | |
| | | | | | Y | PURGE LOG | · | 7 | | |
| Time | (24 hr) | Volume | pH | EC (mS/cm) | Turbidity ntu) | (OC) | ORP mV) | D.O. (mg/L) | DTW (ft) | Other Observations (Color, 6 |
| 135 | 0 | isomba | 652 | 1.032 | 1 | 26.87 | 137.3 | 4.45 | 11.34 | |
| 135 | 55 | LSOMEIN | 7.02 | .894 | | 22.73 | 137.3 | 3.32 | 11.34 | |
| | 00 | 120mm Jm | 7.00 | .854 | | 22,70 | 132.3 | 3.55 | 11.34 | |
| 3.0 | \$5 | Mange | 6.99 | .857 | | 22.66 | 130.7 | 3.53 | | |
| <u> </u> | | | | + | +V | + | + | - | 11,34 | |
| 141 | 10 | 150.mlm | 7.00 | .853 | | 22.64 | 129.3 | 3.51 | 11.34 | |
| | | | | | $\perp \Lambda$ | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | 1 | | | | | |
| | ·Tot | al Volume Purged | 3039 50 | <u> </u> | Purma Bata | 150 mil | l | | | 90% Deckers |
| | .101 | | | - | | - | | | | 80% Rechage = |
| | | Purging Method | 2" Submersible Pump | 12 Volt Pump | Peristaltic Pumi | Bailer | Waterra | | | |
| WELL SA | AMPLING | i: | | | | | | | | |
| | | - | :DTW at Ti | me of Sampling | 11.34 | | | | | |
| | | Sampling | 2" Submersible | | | | | | | |
| | | Method | | 12 Volt Pump | Peristaltic Pump | Bailer | Waterra | | | |
| ANA | LYTES: | VOCs | Metals | CM | | |] | | | |
| | Vethod: | 8260 | 6010B | 7196A | | | 1 | | | |
| Field | l Filter? | no | yes | no | | | 1 | | | |
| | Bottles: | 3 voas | 1 500 poly | 1 250 ml poly | | | | | | |
| Prese | rvative: | HCI | HNO ₃ | none | | | | | | |
| | | SAMPLE ID: | mw | - 796 | 3 | _ | - | | | |
| QA/QC S | | | | | | | | | | - |
| WAS QA | VQC SA | MPLE COLLECT | ED FOR THIS | WELL? | | | | | YE | S (NO) |
| | :l | F SO, SAMPLE ID | | | | TYPE: | Rinsate Blank | | MS/MSD | Duplicate Imbient Blank |
| COMMEN | NTS: | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | - | | | | | |
| Well Repa | air (checl | k if needed): | | | | | | | | |
| 1 | New lock | New Bolts | Cracked o | r Damaged PVC | ; | Other (specify): | | | | |
| | | | | | | | | | | |



| Sounder URGE DATE: AMPLE TIME: ERSONNEL: | Soap wate | er wash er rinse | Footvalve | Ì | | | | | |
|---|--------------------|---|-----------------|-----------------|----------------------------|-----------|----------------------|-------------------------|--|
| URGE DATE: _AMPLE TIME: _ | Soap wate | er wash er rinse | Footvalve | | | | | | |
| URGE DATE: _AMPLE TIME: _ | Tap water DI water | r rinse | Footvalve | I | | | :IN | ITIAL DTW (ft) | 10.90 |
| AMPLE TIME: _ AMPLE DATE:_ | Tap water DI water | r rinse | | 1 | | | :DEPTH TO | D BOTTOM (ft) | - |
| AMPLE TIME: _ AMPLE DATE:_ | 3-30 \3\5 | | | | | | :W | ELL DIAM. (in) | 2" |
| AMPLE TIME: _ AMPLE DATE:_ | 3.30 | r rinse | | | | | | .UMES (gals) 3 | |
| AMPLE TIME: _ AMPLE DATE:_ | 1313 | | | | | | h*3*0.04 (17); h*3*(| 0,064 (1,25°); h*3°0,10 | 8 (27); h*3*0.26 (2.57); h*3*0.38 (37); h*3*0. |
| AMPLE DATE:_ | | -16 | _ | :PUMP/I | UBING INTAKE | | ear middle 🤇 | ear bottom Cu | ustom(ft): |
| | 3-30- | -16 | - | | TUBING SIZE | | | 3/8" X 1/2" | Other (specify): |
| | 1000 | ~4-72~ | - | ·SELOW T | METER TYPE: HROUGH CELL | | | No | |
| | H | | | :rreow i | PURGE LOG | | | 140 | |
| me | Volume | | EC | Turbidity | Temp. | ORP | , | DTW | |
| (24 hr) | me) me Gat.) | рН | (mS/cm) | ntu) | (°c) | mV) | D.O. (mg/L) | (ft) | Other Observations (Color |
| 1255 | 150me (m | 1 2.5 | 0.351 | 1 | 20.56 | 85.7 | 5,50 | 11.03 | |
| 1300 | 120mm /w | 7.33 | . 360 | | 20.66 | 34.2 | 2,58 | 11.03 | |
| 1305 1 | 150mm | 7.30 | 1361 | | 20.57 | 80.3 | 2.03 | 11.6] | |
| 1310 1 | somelm | 7.31 | .362 | \square | 20.59 | 79,7 | 2.01 | 11.53 | |
| 1315 | 150mlm | 7.30 | .361 | | 20,5 | 801 | 2.00 | 11.43 | |
| | | | | lacksquare | | | | | |
| | | | | | | | | | |
| | | | | | | | | | , |
| | | | | / | | | | | |
| :Total | l Volume Purged | 3000m | レ | Purge Rate | 150 mul | m | | | 80% Rechage = |
| | Purging | 2" Submersible | | Peristaltic Pum | Bailer | Waterra | | | |
| | Method | Pump | iz von i dirp | Chouldo't dire | J Duild. | T TOLCTIO | | | |
| | | | | | | | | | |
| ELL SAMPLING: | | | | 1103 | | | | | |
| ELL SAMPLING: | Campling | | ime of Sampling | ~ ~ | _ | | | | |
| ELL SAMPLING: | Sampling Method | :DTW at To 2" Submersible Pump | 72 | Peristaltic Pum | Bailer | Waterra | | | |
| ANALYTES: | | 2" Submersible | 72 | | Bailer | Waterra | | | |
| | Method | 2" Submersible Pump | 12 Volt Pump | | Bailer | Waterra | | | |
| ANALYTES: | VOCs | 2" Submersible Pump Metals | 12 Volt Pump | | Bailer | Waterra | | | |
| ANALYTES: EPA Method: | VOCs 8260 | 2" Submersible Pump Metals 6010B | 12 Volt Pump | | Bailer | Waterra | | | |



| | | AME Francis Plat | | | -8 | | | | | | |
|---------------------------------------|------------|-------------------------------------|------------------------|-----------------|--|------------------|------------------|----------------------|------------------------|----------------------------|-----------------------|
| :. | PROJEC' | | 06-FP-002 | | 27 | | | | | | |
| | :WEL | TID W | W-9 | | i | | | | | | |
| | | Equipment | t Decon | | 1 | | | :IN | IITIAL DTW (ft) | 11.33 | |
| So | under | | | Footvalve | | | | :DEPTH T | O BOTTOM (ft) | | |
| X | 3 | Soap wat | er wash | | | | | :W | ELL DIAM. (in) | 4,, | |
| 7 | 4 | Tap wate | er rinse | | | | | :VOL | .UMES (gals) 3 | In Cia | ٠ <u>~</u> |
| > | 6 | DI water | r rinse | | | | | h*3*0.04 (1"); h*3*(| 0,064 (1,25°); h°3°0,1 | 6 (27); h*3*0.26 (2.57); h | '3'0,38 (3'); h'3'0,6 |
| PURGI | E DATE: | 3.30-1 | 6 | | :PUMP/ | TUBING INTAKE | near top n | ear middle (| ear bottom C | ustom(ft) : | |
| SAMPI | LE TIME: | 1340 | | - | | TUBING SIZE: | 1/4" X 3/8" | | 3/8" X 1/2" | Other (specify): | |
| | LE DATE: | | | - | | :METER TYPE | | | | | |
| PERSC | ONNEL: | でる | Mish | | :?FLOW1 | THROUGH CELL | Yes | | No | | |
| | | | T . | 1 | | PURGE LOG | 1 | <u> </u> | | 1 | |
| Time | (24 hr) | Volume Gal.) | рН | EC (mS/cm) | Turbidity ntu) | (OC) | ORP mV) | D.O. (mg/L) | DTW (ft) | Other Observ | vations (Color, |
| 131 | 25 | mon | 7.45 | 1311 | \ 1 | 22.02 | 44.9 | 13.1 | 11.38 | | |
| 13 | 25 | 150 inclm | 7.13 | .307 | | 21,73 | 56.1 | 1.14 | 11.43 | | |
| 13 | 05 | isomelm | 7.02 | .306 | | 21.90 | 60,0 | 1.21 | 1145 | | |
| 13 | 3 <i>5</i> | 150mc/m | 7.01 | -307 | 1 1 | 22.00 | 61.4 | 1.19 | 11.47 | | |
| 131 | 90 | isonim | 7.51 | .307 | | 22.17 | 61.7 | 117 | 11.49 | | |
| 13 | 4 | 12-13-11 | 1.01 | 241 | | 22.11 | 01, 1 | 1 | 1111 | | |
| | | | | | 1 / 1 | | | | | | |
| | | | | | 11 | | | | | | |
| | | | | | 1 | | | | | | |
| | | | | | | | | | | | |
| | :Tot | tal Volume Purged | 3000m | - | Purge Rat | te: Name In | | | | 80% Rechage = | |
| | | Purging Method | 2" Submersible Pump | 12 Volt Pump | Peristaltic Pun | np) Bailer | Waterra | | | | |
| NFLL S | SAMPLING | | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | <i>-</i> | <u>e</u> | :DTW at Ti | ime of Sampling | 11.49 | | | | | | |
| | | Sampling | 2" Submersible | 4014.00 | | <u> </u> | 144-1 | | | | |
| | | Method | | 12 Volt Pump | Peristaltic Pun | Bailer | Waterra | | | | |
| AN | ALYTES: | VOCs | Metals | CrVI | | | | | | | |
| EPA | Method: | 8260 | 6010B | 7196A | | | | | | | |
| Fie | ld Filter? | no | yes | no | | | | | | | |
| | Bottles: | 3 voas | 1 500 poly | 1 250 ml poly | | | - | | | | |
| Pres | servative: | | HNO ₃ | none | | | 1 | | | | |
| OAIOC | SAMPLIN | SAMPLE ID: | mr | 101 | | _ | | | | | |
| | | <u>u.</u> I mple collec 1 | TED FOR THIS | WELL? | | | | | YE | s (NO) | |
| | | | | | | TVDP | : Rinsate Blank | | Meater | Duplicate | mbient Blank |
| ^^*** | | IF SO, SAMPLE ID | | **** | - | | . Nussele Dietik | | MS/MSD | Dublicates | SHAREH DIRECT |
| COMMI | EN12: | | | | | | | | | | |
| | | | | | | | | | | 10001100 | |
| | | | | | | | | | | | |
| Vell Re | pair (chec | k if needed): | | | | | | | | | |
| | New lock | New Bolts | Cracked o | or Damaged PVC | : | Other (specify): | | | | | |
| | | | | | | | | | | | |

| Project Nam | ne: Francis Plating Job No. 06-FP |
|--------------|--|
| | Patland (789 7th St.) Date: 5/19/16 |
| | rish 3t Group Contractor: Cascade Prilling |
| Weather No | tations: Sun Cloudy Drum Log: > Toke/ |
| | Rain Snow Temperature 60 F / Soil, / purge ander, / sludge |
| Time | Comments |
| 0740 | I. Cours prives of The off-six pegtions. |
| 0811 | Drillers arrive at off-site locations |
| 0875 | Conduct morning Health and Sofety meeting. |
| 0840 | Begin Setting up on off-site location SB-FPS |
| 1031 | Stop at 20' and pull up 4' to see 11 t water |
| | comes in at SB-FPS. |
| 1045 | Collect grab groundwater sumple at SB-FPS |
| 1105 | More to SB-FP4. |
| 1115 | Begin on SB-FPY. |
| 1210 | Reach a clayer tager sand layer at 18' act nait de noter white |
| 1236 | we brook for lench |
| 1236 | Resume pushing after funch, no water in hole @18'. |
| 1255 | Collect grab grandwater sample at SB-FP4, pack up |
| | to more on- site. |
| 1325 | More on Site and setup on SB-FP5 |
| 1340 | Begin on SB-FP3 |
| 1400 | Begin on SB-FP2 |
| 1430 | Begin on SB-FPI |
| 1445 | Drillers are off-Site |
| 1515 | J. Lawis is off-site and heads for Curtis and Tompking lab. |
| | |
| Equipment u | sed: |
| Mileage: | |
| Staff Hours: | Signature: Office No. |

APPENDIX C LABORATORY ANALYTICAL DATA





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 274913 ANALYTICAL REPORT

The Source Group, Inc. Project : STANDARD

3478 Buskirk Ave Location: Former Francis Plating

Pleasant Hill, CA 94523 Level : II

| Sample ID | <u>Lab ID</u> |
|-----------|---------------|
| MW-FP4A | 274913-001 |
| MW-FP4B | 274913-002 |
| MW-FP7B | 274913-003 |
| MW-FP2 | 274913-004 |
| MW-9 | 274913-005 |
| MW-FP6 | 274913-006 |
| MW-FP5 | 274913-007 |
| MW-FP1 | 274913-008 |
| MW-FP3 | 274913-009 |
| TB | 274913-010 |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: ___

Will Rice Project Manager will.rice@ctberk.com

Will Rice

Date: <u>04/04/2016</u>

CA ELAP# 2896, NELAP# 4044-001



CASE NARRATIVE

Laboratory number: 274913

Client: The Source Group, Inc.
Location: Former Francis Plating

Request Date: 03/08/16 Samples Received: 03/08/16

This data package contains sample and QC results for nine water samples, requested for the above referenced project on 03/08/16. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):

Low recoveries were observed for chromium and lead in the MS/MSD for batch 232935; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

CHAIN OF CUSTODY

| | Curtis & Tompki | ns Labo | ratori | əs | | | | | | | | | | | | | | | | | Chr | ain c | of C | | | | _ ʻ | of _ | |
|----------------|-----------------------------|--|-------------------|------------|-----------|----------|------------|------|----------------|-----------|--------------|-------|-----|----------|-------|-------|----------|----------|----------|-----------|-------------------------------------|---------------------------------------|----------|-----------------|---------------------|-----------------|------------|----------|----------|
| | ENVIRONMENTAL ANALYTIC | CAL TESTING L | ABORATO | RY | | С | &T LC | OGII | N # | 2 | 14 | 912 | . 1 | | | | | ΔNI | ΔI | | | ain c | | | | # - | | | |
| | ifth Street ey, CA 94710 | Phone (51 | | 200 | | | | | - | | | *** | - | | | | | | | | | | | Z O L | 31 | | | | |
| Project | No: Former Francis P. | Plating sai | mpler: | Joi | da | <u>n</u> | (| Lec | <u>~</u> | <u>`</u> | | | | | | × | | | | | | | | | | | ı | | |
| Project | Name: | Rej | port To: 🦯 | t de | am | | Br | 00 | vr | | | | _ | | | X0141 | | | | | | | | | | | | | |
| Project | P. O. No: | <u>Co</u> | mpany: 7 | he | <u>S</u> | w | ce | | w c | v | 0 | | _ | | | 1 | | | | | | | | | | | | | |
| EDD For | mat: Report Level□ II □ | III IV Tel | ephone: 5 | <u> 53</u> | <u>O.</u> | 27 | <u>2</u> . | 42 | 00 | | | | _ | B | T | 7 | . | | | | | į | | | | | | | |
| Turnarou | und Time: Rush X | Standard Em | ail: Adaw | 1. Č | 3vou | vn | | apc | XC | <u>05</u> | . c | on | _ | 60 | 7/96A | 6010B | | | | | | : | | | | | | | |
| Lab | Sample ID. | SAMPL | ING | М | IATRI | x | Containers | | CHE RESI | | | | | | | B | | | | | | | | | | | | | |
| No. | | Date Collected | Time Collected | Water | Solid | | # of Cor | HCI | H2S04 | HN03 | NaOH | None | | 5P4 | のです | CPA | 1 | | | | | | | | | | | | |
| 1 | MW-FP4A | 3/4/16 | 1140 | X | | | 5 | X | | X | | X | ľ | X | Х | X | | | | | | \Box | | | | П | | | T |
| 2 | MW-FP4B | | 1235 | X | | Ц | 5 | X | | x | | X | [| X | X | X | | | | | | | | | | | | | |
| 3 | MW-FP7B | 1 1 | 1700 | X | _ | Н | 5 | X | | X | | X | | X | × | X | | 4 | _ | | | | Ш | Ш | $\sqcup \downarrow$ | Ш | \square | | |
| <u>4</u> 5~ | MW-FPZ MW-9 | | 1750 | X | _ | Н | 5 | 3 | ļ | 1 | _ | Ш | | | | X | _ | \dashv | \dashv | | | <u> </u> | | Ш | igwdap | \sqcup | \square | | <u> </u> |
| \(\(\phi\) | MW-9 MW-F76 | | 1540 | X | | Н | 5 | 3 | | <u> </u> | | | ļ | X | | X | | \dashv | \dashv | | <u> </u> | ـــــــــــــــــــــــــــــــــــــ | \vdash | Ш | | \vdash | | \vdash | <u> </u> |
| 1 | MW- F75 | | 1625 | X | - | Н | 5 | 3 | | - | - | H | ŀ | X | X | X | -+ | + | - | | <u> </u> | <u> </u> | ╁ | $\vdash\vdash$ | | $\vdash \vdash$ | \dashv | \vdash | <u> </u> |
| 8 | MW-FPI | V | 1420 | X | - | Н | 5 | 3 | | 1 | | H | ŀ | × × | × | X | \dashv | \dashv | \dashv | - | | ╁── | Н | $\vdash \vdash$ | - | $\vdash \vdash$ | \dashv | \vdash | \vdash |
| 9 | mw-FP3 | 3/4/16 | 1345 | χ | 1 | П | 5 | 3 | _ | 1 | | | ŀ | | | | 1 | 1 | 1 | | <u> </u> | 1 | | | | \Box | | | \vdash |
| | | 7 | | | | | | | | | | | Ì | - | | | \top | | | | | 1 | | | | | | | T |
| <u> </u> | | | | | | \Box | | | | | | | | | | | | | | | | | | | | | | | |
| | | | - | | | Ц | | | ļ | | | |] | | | | | | | | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | | Ш | | | | | | |
| Notes | | | | Ц | | <u></u> | | | | _ | | | | | | | | | | | | <u></u> | | | | | | | |
| Notes: | | SAMPLERECEIPT | 01 | | RE | LIN | IQUI | SHE | | | , | | | _ | | | • | | | <u>RE</u> | :CE | IVE | D B | <u>Y:</u> | | | | | |
| - | | Intact - | Jan | 7 | n | <u></u> | <u> </u> | | DAT | E:3 | 5 | TIME: | 010 | <u>o</u> | 1 | ed | ex | | | | | | | | _ | TIN | <u>ЛЕ:</u> | 100 | <u>0</u> |
| | | ☐ Cold | | | | | | | DAT | E: | • | TIME: | | _ | | | 10 | 0 | 8 | | | | <u>D</u> | ATE: | <i>31</i> 8 | TIN | VE. | 500 | ر — |
| | | On tce Ambient | '''' | | | _ | | | DAT | E: | 1 | TIME: | | | | | | | | | | | D | ATE: | | | ME: | | |
| | | <u>-</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COOLER RECEIPT CHECKLIST



| Login # 2749 13 Date Received 3/8/16 Number of coolers 1 Client The Science Greep Project Former Francis Plating |
|--|
| Date Opened 3/8 By (print) CN (sign) CMM (sign) Date Logged in By (print) (sign) |
| 1. Did cooler come with a shipping slip (airbill, etc) Fed Ex Shipping info 7827 2798 7657 |
| 2A. Were custody seals present? TYES (circle) on cooler on samples How many Name Date 2B. Were custody seals intact upon arrival? 3. Were custody papers dry and intact when received? 4. Were custody papers filled out properly (ink, signed, etc)? 5. Is the project identifiable from custody papers? (If so fill out top of form) 6. Indicate the packing in cooler: (if other, describe) |
| ☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels 7. Temperature documentation: * Notify PM if temperature exceeds 6°C |
| Type of ice used: Wet ☐ Blue/Gel ☐ None Temp(°C)(C). |
| Temperature blank(s) included? Thermometer# 4 IR Gun# |
| ☐ Samples received on ice directly from the field. Cooling process had begun |
| 8. Were Method 5035 sampling containers present? If YES, what time were they transferred to freezer? 9. Did all bottles arrive unbroken/unopened? 10. Are there any missing / extra samples? 11. Are samples in the appropriate containers for indicated tests? 12. Are sample labels present, in good condition and complete? 13. Do the sample labels agree with custody papers? 14. Was sufficient amount of sample sent for tests requested? 15. Are the samples appropriately preserved? 16. Did you check preservatives for all bottles for each sample? 17. Did you document your preservative check? (pH strip lot#1c41230x) PES NO N/A 18. Did you change the hold time in LIMS for unpreserved VOAs? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. NO N/A 19. Did you change the hold time in LIMS for preserved terracores? 19. NO N/A 19. Did you change the hold time in LIMS for preserved terracores? 19. NO N/A 10. Was the client contacted concerning this sample delivery? 10. VES NO 11. YES NO 12. YES NO 13. NO 14. Was the client contacted concerning this sample delivery? 15. NO 16. Did you change the hold time in LIMS samples? 17. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terracores? 19. Did you change the hold time in LIMS for preserved terraco |
| COMMENTS Peceived 3 TB samples wax listed on the COC 1/3 Vapos received w/ w/bble 76mm for sample 2 and 9 2/3 " " sample 5 Samples Received outof hold |

Curtis & Tompkins Sample Preservation for 274913

| Sample pH: -001a b c | <pre><2 >9 >12 Other [] [] [] [] [] []</pre> | Sample pH: d e | <2 [%] [] | >9 [] [] | >12 Other [] |
|----------------------|---|----------------------|---------------------------|------------------|---------------|
| d e | [] [] [] [] [] [] | -006a b c | [] | [] | [] |
| -002a b c | | d e | | [] | |
| d e | [] [] [] [] [] [] [] [] [] [] | -007a b c | [] | [] | |
| -003a b c | | d e | [x] | [] | [] |
| d e | [p] [] [] | -008a b c | [] | [] | [] |
| -004a b c | | d e | [½] | [] | [] |
| d e | | -009a b | [] | [] | |
| -005a b c | | c d e | [] | [] | [] |

Analyst: GN Date: 3/8/16



Detections Summary for 274913

Results for any subcontracted analyses are not included in this summary.

Client : The Source Group, Inc.

Project : STANDARD

Location : Former Francis Plating

Client Sample ID : MW-FP4A

Laboratory Sample ID :

274913-001

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep N | Method |
|--------------------------|--------|-------|------|-------|---------|-------|-----------|--------|--------|
| 1,1-Dichloroethene | 1.0 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 50 | 030B |
| trans-1,2-Dichloroethene | 4.7 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 50 | 030B |
| cis-1,2-Dichloroethene | 71 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 50 | 030B |
| Trichloroethene | 93 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 50 | 030B |
| Barium | 99 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 30 | 010A |
| Chromium | 10,000 | | 500 | ug/L | TOTAL | 100.0 | EPA 6010B | EPA 30 | 010A |
| Cobalt | 9.2 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 30 | 010A |
| Copper | 19 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 30 | 010A |
| Molybdenum | 34 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 30 | 010A |
| Nickel | 130 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 30 | 010A |
| Selenium | 27 | | 10 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 30 | 010A |
| Zinc | 89 | | 20 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 30 | 010A |
| Hexavalent Chromium | 1.1 | b | 0.10 | mg/L | TOTAL | 10.00 | EPA 7196A | METHOI | D |

Client Sample ID : MW-FP4B Laboratory Sample ID : 274913-002

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|---------|-------|-----------|-------------|
| Chloroform | 1.8 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Barium | 29 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Chromium | 9.2 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Selenium | 11 | | 10 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Vanadium | 11 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Hexavalent Chromium | 0.01 | b | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

Client Sample ID : MW-FP7B

Laboratory Sample ID:

274913-003

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|---------|-------|-----------|-------------|
| Chloroform | 15 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Barium | 27 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Chromium | 23 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Vanadium | 12 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Hexavalent Chromium | 0.02 | b | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

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Client Sample ID: MW-FP2 Laboratory Sample ID:

274913-004

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Barium | 32 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Chromium | 19 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Hexavalent Chromium | 0.02 | b | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

Client Sample ID: MW-9 Laboratory Sample ID: 274913-005

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|------------------------|--------|-------|------|-------|---------|-------|-----------|-------------|
| cis-1,2-Dichloroethene | 1.7 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Trichloroethene | 3.0 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Barium | 40 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Chromium | 930 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Molybdenum | 5.5 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Nickel | 8.4 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Hexavalent Chromium | 0.32 | b | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

Client Sample ID: MW-FP6 Laboratory Sample ID: 274913-006

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|---------|-------|-----------|-------------|
| Trichloroethene | 9.9 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Barium | 54 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Chromium | 13,000 | | 500 | ug/L | TOTAL | 100.0 | EPA 6010B | EPA 3010A |
| Molybdenum | 5.5 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Nickel | 27 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Selenium | 17 | | 10 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Hexavalent Chromium | 1.4 | b | 0.10 | mg/L | TOTAL | 10.00 | EPA 7196A | METHOD |

Client Sample ID: MW-FP5 Laboratory Sample ID: 274913-007

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|---------|-------|-----------|-------------|
| Trichloroethene | 2.2 | | 0.5 | ug/L | As Recd | 1.000 | EPA 8260B | EPA 5030B |
| Barium | 61 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Chromium | 16,000 | | 500 | ug/L | TOTAL | 100.0 | EPA 6010B | EPA 3010A |
| Molybdenum | 6.7 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Nickel | 18 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Hexavalent Chromium | 1.8 | b | 0.10 | mg/L | TOTAL | 10.00 | EPA 7196A | METHOD |

Client Sample ID: MW-FP1 Laboratory Sample ID: 274913-008

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Barium | 42 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Chromium | 11 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Nickel | 12 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Hexavalent Chromium | 0.02 | b | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

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Client Sample ID : MW-FP3

Laboratory Sample ID: 274913-009

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Barium | 55 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Chromium | 300 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Nickel | 29 | | 5.0 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Selenium | 14 | | 10 | ug/L | TOTAL | 1.000 | EPA 6010B | EPA 3010A |
| Hexavalent Chromium | 0.29 | b | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |



| Purgeable Organics by GC/MS | | | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | | | |
| Field ID: | MW-FP4A | Batch#: | 232880 | | | | | |
| Lab ID: | 274913-001 | Sampled: | 03/04/16 | | | | | |
| Matrix: | Water | Received: | 03/08/16 | | | | | |
| Units: | ug/L | Analyzed: | 03/09/16 | | | | | |
| Diln Fac: | 1.000 | | | | | | | |

| Analyte | Result | RL | |
|--|----------|------------|--|
| Freon 12 | ND ND | 1.0 | |
| Chloromethane | ND | 1.0 | |
| Vinyl Chloride | ND ND | 0.5 | |
| Bromomethane | ND | 1.0 | |
| Chloroethane | ND | 1.0 | |
| Trichlorofluoromethane | ND | 1.0 | |
| Acetone | ND | 10 | |
| Freon 113 | ND | 5.0 | |
| 1,1-Dichloroethene | 1.0 | 0.5 | |
| Methylene Chloride | ND | 10 | |
| Carbon Disulfide | ND | 0.5 | |
| MTBE | ND ND | 0.5 | |
| trans-1,2-Dichloroethene | 4.7 | 0.5 | |
| Vinyl Acetate | ND | 10 | |
| 1,1-Dichloroethane | ND ND | 0.5 | |
| 2-Butanone | ND ND | 10 | |
| cis-1,2-Dichloroethene | иD 71 | 0.5 | |
| 2,2-Dichloropropane | ND | 0.5 | |
| Chloroform | | | |
| Bromochloromethane | ND | 0.5 0.5 | |
| | ND | 0.5 | |
| 1,1,1-Trichloroethane | ND | | |
| 1,1-Dichloropropene Carbon Tetrachloride | ND | 0.5 | |
| | ND | 0.5 | |
| 1,2-Dichloroethane | ND | 0.5 | |
| Benzene | ND | 0.5 | |
| Trichloroethene | 93 | 0.5 | |
| 1,2-Dichloropropane | ND | 0.5 | |
| Bromodichloromethane | ND | 0.5 | |
| Dibromomethane | ND | 0.5 | |
| 4-Methyl-2-Pentanone | ND | 10 | |
| cis-1,3-Dichloropropene | ND | 0.5 | |
| Toluene | ND | 0.5 | |
| trans-1,3-Dichloropropene | ND | 0.5 | |
| 1,1,2-Trichloroethane | ND | 0.5 | |
| 2-Hexanone | ND | 10 | |
| 1,3-Dichloropropane | ND | 0.5 | |
| Tetrachloroethene | ND | 0.5 | |

ND= Not Detected RL= Reporting Limit

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| Purgeable Organics by GC/MS | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|
| Lab #: | 274913 | Location: | Former Francis Plating | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | |
| Project#: | STANDARD | Analysis: | EPA 8260B | |
| Field ID: | MW-FP4A | Batch#: | 232880 | |
| Lab ID: | 274913-001 | Sampled: | 03/04/16 | |
| Matrix: | Water | Received: | 03/08/16 | |
| Units: | ug/L | Analyzed: | 03/09/16 | |
| Diln Fac: | 1.000 | | | |

| Analyte | Result | RL | |
|-----------------------------|--------|-----|--|
| Dibromochloromethane | ND | 0.5 | |
| 1,2-Dibromoethane | ND | 0.5 | |
| Chlorobenzene | ND | 0.5 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | |
| Ethylbenzene | ND | 0.5 | |
| m,p-Xylenes | ND | 0.5 | |
| o-Xylene | ND | 0.5 | |
| Styrene | ND | 0.5 | |
| Bromoform | ND | 1.0 | |
| Isopropylbenzene | ND | 0.5 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | |
| 1,2,3-Trichloropropane | ND | 0.5 | |
| Propylbenzene | ND | 0.5 | |
| Bromobenzene | ND | 0.5 | |
| 1,3,5-Trimethylbenzene | ND | 0.5 | |
| 2-Chlorotoluene | ND | 0.5 | |
| 4-Chlorotoluene | ND | 0.5 | |
| tert-Butylbenzene | ND | 0.5 | |
| 1,2,4-Trimethylbenzene | ND | 0.5 | |
| sec-Butylbenzene | ND | 0.5 | |
| para-Isopropyl Toluene | ND | 0.5 | |
| 1,3-Dichlorobenzene | ND | 0.5 | |
| 1,4-Dichlorobenzene | ND | 0.5 | |
| n-Butylbenzene | ND | 0.5 | |
| 1,2-Dichlorobenzene | ND | 0.5 | |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | |
| 1,2,4-Trichlorobenzene | ND | 0.5 | |
| Hexachlorobutadiene | ND | 0.5 | |
| Naphthalene | ND | 0.5 | |
| 1,2,3-Trichlorobenzene | ND | 0.5 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 101 | 80-128 | |
| 1,2-Dichloroethane-d4 | 127 | 75-139 | |
| Toluene-d8 | 104 | 80-120 | |
| Bromofluorobenzene | 108 | 80-120 | |

RL= Reporting Limit

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| Purgeable Organics by GC/MS | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|
| Lab #: | 274913 | Location: | Former Francis Plating | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | |
| Project#: | STANDARD | Analysis: | EPA 8260B | |
| Field ID: | MW-FP4B | Batch#: | 232880 | |
| Lab ID: | 274913-002 | Sampled: | 03/04/16 | |
| Matrix: | Water | Received: | 03/08/16 | |
| Units: | ug/L | Analyzed: | 03/09/16 | |
| Diln Fac: | 1.000 | | | |

| Analyte | Result | RL | |
|---------------------------|--------|-----|--|
| Freon 12 | ND ND | 1.0 | |
| Chloromethane | ND | 1.0 | |
| Vinyl Chloride | ND | 0.5 | |
| Bromomethane | ND | 1.0 | |
| Chloroethane | ND | 1.0 | |
| Trichlorofluoromethane | ND | 1.0 | |
| Acetone | ND | 10 | |
| Freon 113 | ND | 5.0 | |
| 1,1-Dichloroethene | ND | 0.5 | |
| Methylene Chloride | ND | 10 | |
| Carbon Disulfide | ND | 0.5 | |
| MTBE | ND | 0.5 | |
| trans-1,2-Dichloroethene | ND | 0.5 | |
| Vinyl Acetate | ND | 10 | |
| 1,1-Dichloroethane | ND | 0.5 | |
| 2-Butanone | ND | 10 | |
| cis-1,2-Dichloroethene | ND | 0.5 | |
| 2,2-Dichloropropane | ND | 0.5 | |
| Chloroform | 1.8 | 0.5 | |
| Bromochloromethane | ND | 0.5 | |
| 1,1,1-Trichloroethane | ND | 0.5 | |
| 1,1-Dichloropropene | ND | 0.5 | |
| Carbon Tetrachloride | ND | 0.5 | |
| 1,2-Dichloroethane | ND | 0.5 | |
| Benzene | ND | 0.5 | |
| Trichloroethene | ND | 0.5 | |
| 1,2-Dichloropropane | ND | 0.5 | |
| Bromodichloromethane | ND | 0.5 | |
| Dibromomethane | ND | 0.5 | |
| 4-Methyl-2-Pentanone | ND | 10 | |
| cis-1,3-Dichloropropene | ND | 0.5 | |
| Toluene | ND | 0.5 | |
| trans-1,3-Dichloropropene | ND | 0.5 | |
| 1,1,2-Trichloroethane | ND | 0.5 | |
| 2-Hexanone | ND | 10 | |
| 1,3-Dichloropropane | ND | 0.5 | |
| Tetrachloroethene | ND | 0.5 | |

RL= Reporting Limit



| Purgeable Organics by GC/MS | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|
| Lab #: | 274913 | Location: | Former Francis Plating | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | |
| Project#: | STANDARD | Analysis: | EPA 8260B | |
| Field ID: | MW-FP4B | Batch#: | 232880 | |
| Lab ID: | 274913-002 | Sampled: | 03/04/16 | |
| Matrix: | Water | Received: | 03/08/16 | |
| Units: | ug/L | Analyzed: | 03/09/16 | |
| Diln Fac: | 1.000 | • | | |

| Analyte | Result | RL | |
|-----------------------------|--------|-----|--|
| Dibromochloromethane | ND | 0.5 | |
| 1,2-Dibromoethane | ND | 0.5 | |
| Chlorobenzene | ND | 0.5 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | |
| Ethylbenzene | ND | 0.5 | |
| m,p-Xylenes | ND | 0.5 | |
| o-Xylene | ND | 0.5 | |
| Styrene | ND | 0.5 | |
| Bromoform | ND | 1.0 | |
| Isopropylbenzene | ND | 0.5 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | |
| 1,2,3-Trichloropropane | ND | 0.5 | |
| Propylbenzene | ND | 0.5 | |
| Bromobenzene | ND | 0.5 | |
| 1,3,5-Trimethylbenzene | ND | 0.5 | |
| 2-Chlorotoluene | ND | 0.5 | |
| 4-Chlorotoluene | ND | 0.5 | |
| tert-Butylbenzene | ND | 0.5 | |
| 1,2,4-Trimethylbenzene | ND | 0.5 | |
| sec-Butylbenzene | ND | 0.5 | |
| para-Isopropyl Toluene | ND | 0.5 | |
| 1,3-Dichlorobenzene | ND | 0.5 | |
| 1,4-Dichlorobenzene | ND | 0.5 | |
| n-Butylbenzene | ND | 0.5 | |
| 1,2-Dichlorobenzene | ND | 0.5 | |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | |
| 1,2,4-Trichlorobenzene | ND | 0.5 | |
| Hexachlorobutadiene | ND | 0.5 | |
| Naphthalene | ND | 0.5 | |
| 1,2,3-Trichlorobenzene | ND | 0.5 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 105 | 80-128 | |
| 1,2-Dichloroethane-d4 | 131 | 75-139 | |
| Toluene-d8 | 101 | 80-120 | |
| Bromofluorobenzene | 109 | 80-120 | |

RL= Reporting Limit

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| Purgeable Organics by GC/MS | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|
| Lab #: | 274913 | Location: | Former Francis Plating | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | |
| Project#: | STANDARD | Analysis: | EPA 8260B | |
| Field ID: | MW-FP7B | Batch#: | 232880 | |
| Lab ID: | 274913-003 | Sampled: | 03/04/16 | |
| Matrix: | Water | Received: | 03/08/16 | |
| Units: | ug/L | Analyzed: | 03/09/16 | |
| Diln Fac: | 1.000 | | | |

| Analyte | Result | RL | |
|---------------------------|--------|-----|--|
| Freon 12 | ND | 1.0 | |
| Chloromethane | ND | 1.0 | |
| Vinyl Chloride | ND | 0.5 | |
| Bromomethane | ND | 1.0 | |
| Chloroethane | ND | 1.0 | |
| Trichlorofluoromethane | ND | 1.0 | |
| Acetone | ND | 10 | |
| Freon 113 | ND | 5.0 | |
| 1,1-Dichloroethene | ND | 0.5 | |
| Methylene Chloride | ND | 10 | |
| Carbon Disulfide | ND | 0.5 | |
| MTBE | ND | 0.5 | |
| trans-1,2-Dichloroethene | ND | 0.5 | |
| Vinyl Acetate | ND | 10 | |
| 1,1-Dichloroethane | ND | 0.5 | |
| 2-Butanone | ND | 10 | |
| cis-1,2-Dichloroethene | ND | 0.5 | |
| 2,2-Dichloropropane | ND | 0.5 | |
| Chloroform | 15 | 0.5 | |
| Bromochloromethane | ND | 0.5 | |
| 1,1,1-Trichloroethane | ND | 0.5 | |
| 1,1-Dichloropropene | ND | 0.5 | |
| Carbon Tetrachloride | ND | 0.5 | |
| 1,2-Dichloroethane | ND | 0.5 | |
| Benzene | ND | 0.5 | |
| Trichloroethene | ND | 0.5 | |
| 1,2-Dichloropropane | ND | 0.5 | |
| Bromodichloromethane | ND | 0.5 | |
| Dibromomethane | ND | 0.5 | |
| 4-Methyl-2-Pentanone | ND | 10 | |
| cis-1,3-Dichloropropene | ND | 0.5 | |
| Toluene | ND | 0.5 | |
| trans-1,3-Dichloropropene | ND | 0.5 | |
| 1,1,2-Trichloroethane | ND | 0.5 | |
| 2-Hexanone | ND | 10 | |
| 1,3-Dichloropropane | ND | 0.5 | |
| Tetrachloroethene | ND | 0.5 | |

RL= Reporting Limit



| Purgeable Organics by GC/MS | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|
| Lab #: | 274913 | Location: | Former Francis Plating | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | |
| Project#: | STANDARD | Analysis: | EPA 8260B | |
| Field ID: | MW-FP7B | Batch#: | 232880 | |
| Lab ID: | 274913-003 | Sampled: | 03/04/16 | |
| Matrix: | Water | Received: | 03/08/16 | |
| Units: | ug/L | Analyzed: | 03/09/16 | |
| Diln Fac: | 1.000 | | | |

| Analyte | Result | RL | |
|-----------------------------|--------|-----|--|
| Dibromochloromethane | ND | 0.5 | |
| 1,2-Dibromoethane | ND | 0.5 | |
| Chlorobenzene | ND | 0.5 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | |
| Ethylbenzene | ND | 0.5 | |
| m,p-Xylenes | ND | 0.5 | |
| o-Xylene | ND | 0.5 | |
| Styrene | ND | 0.5 | |
| Bromoform | ND | 1.0 | |
| Isopropylbenzene | ND | 0.5 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | |
| 1,2,3-Trichloropropane | ND | 0.5 | |
| Propylbenzene | ND | 0.5 | |
| Bromobenzene | ND | 0.5 | |
| 1,3,5-Trimethylbenzene | ND | 0.5 | |
| 2-Chlorotoluene | ND | 0.5 | |
| 4-Chlorotoluene | ND | 0.5 | |
| tert-Butylbenzene | ND | 0.5 | |
| 1,2,4-Trimethylbenzene | ND | 0.5 | |
| sec-Butylbenzene | ND | 0.5 | |
| para-Isopropyl Toluene | ND | 0.5 | |
| 1,3-Dichlorobenzene | ND | 0.5 | |
| 1,4-Dichlorobenzene | ND | 0.5 | |
| n-Butylbenzene | ND | 0.5 | |
| 1,2-Dichlorobenzene | ND | 0.5 | |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | |
| 1,2,4-Trichlorobenzene | ND | 0.5 | |
| Hexachlorobutadiene | ND | 0.5 | |
| Naphthalene | ND | 0.5 | |
| 1,2,3-Trichlorobenzene | ND | 0.5 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 96 | 80-128 | |
| 1,2-Dichloroethane-d4 | 133 | 75-139 | |
| Toluene-d8 | 106 | 80-120 | |
| Bromofluorobenzene | 107 | 80-120 | |

RL= Reporting Limit



| Purgeable Organics by GC/MS | | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | | |
| Field ID: | MW-FP2 | Diln Fac: | 1.000 | | | | |
| Lab ID: | 274913-004 | Sampled: | 03/04/16 | | | | |
| Matrix: | Water | Received: | 03/08/16 | | | | |
| Units: | ug/L | | | | | | |

| Analyte | Result | RL | Batch# Analyzed |
|---------------------------|--------|-----|-----------------|
| Freon 12 | ND | 1.0 | 232904 03/10/16 |
| Chloromethane | ND | 1.0 | 232904 03/10/16 |
| Vinyl Chloride | ND | 0.5 | 232904 03/10/16 |
| Bromomethane | ND | 1.0 | 232904 03/10/16 |
| Chloroethane | ND | 1.0 | 232904 03/10/16 |
| Trichlorofluoromethane | ND | 1.0 | 232904 03/10/16 |
| Acetone | ND | 10 | 232904 03/10/16 |
| Freon 113 | ND | 5.0 | 232904 03/10/16 |
| 1,1-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| Methylene Chloride | ND | 10 | 232904 03/10/16 |
| Carbon Disulfide | ND | 0.5 | 232904 03/10/16 |
| MTBE | ND | 0.5 | 232904 03/10/16 |
| trans-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| Vinyl Acetate | ND | 10 | 232904 03/10/16 |
| 1,1-Dichloroethane | ND | 0.5 | 232904 03/10/16 |
| 2-Butanone | ND | 10 | 232904 03/10/16 |
| cis-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| 2,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Chloroform | ND | 0.5 | 232904 03/10/16 |
| Bromochloromethane | ND | 0.5 | 232904 03/10/16 |
| 1,1,1-Trichloroethane | ND | 0.5 | 232904 03/10/16 |
| 1,1-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| Carbon Tetrachloride | ND | 0.5 | 232904 03/10/16 |
| 1,2-Dichloroethane | ND | 0.5 | 232904 03/10/16 |
| Benzene | ND | 0.5 | 232904 03/10/16 |
| Trichloroethene | ND | 0.5 | 232904 03/10/16 |
| 1,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Bromodichloromethane | ND | 0.5 | 232904 03/10/16 |
| Dibromomethane | ND | 0.5 | 232904 03/10/16 |
| 4-Methyl-2-Pentanone | ND | 10 | 232904 03/10/16 |
| cis-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| Toluene | ND | 0.5 | 232904 03/10/16 |
| trans-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| 1,1,2-Trichloroethane | ND | 0.5 | 232904 03/10/16 |
| 2-Hexanone | ND | 10 | 232904 03/10/16 |
| 1,3-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Tetrachloroethene | ND | 0.5 | 232904 03/10/16 |
| Dibromochloromethane | ND | 0.5 | 232904 03/10/16 |

RL= Reporting Limit

Page 1 of 2



| Purgeable Organics by GC/MS | | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | | |
| Field ID: | MW-FP2 | Diln Fac: | 1.000 | | | | |
| Lab ID: | 274913-004 | Sampled: | 03/04/16 | | | | |
| Matrix: | Water | Received: | 03/08/16 | | | | |
| Units: | ug/L | | | | | | |

| Analyte | Result | RL | Batch# Analyzed | |
|-----------------------------|--------|-----|-----------------|--|
| 1,2-Dibromoethane | ND | 0.5 | 232904 03/10/16 | |
| Chlorobenzene | ND | 0.5 | 232904 03/10/16 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 232904 03/10/16 | |
| Ethylbenzene | ND | 0.5 | 232904 03/10/16 | |
| m,p-Xylenes | ND | 0.5 | 232904 03/10/16 | |
| o-Xylene | ND | 0.5 | 232904 03/10/16 | |
| Styrene | ND | 0.5 | 232904 03/10/16 | |
| Bromoform | ND | 1.0 | 232904 03/10/16 | |
| Isopropylbenzene | ND | 0.5 | 232904 03/10/16 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 232904 03/10/16 | |
| 1,2,3-Trichloropropane | ND | 0.5 | 232904 03/10/16 | |
| Propylbenzene | ND | 0.5 | 232904 03/10/16 | |
| Bromobenzene | ND | 0.5 | 232904 03/10/16 | |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 232904 03/10/16 | |
| 2-Chlorotoluene | ND | 0.5 | 232904 03/10/16 | |
| 4-Chlorotoluene | ND | 0.5 | 232904 03/10/16 | |
| tert-Butylbenzene | ND | 0.5 | 232904 03/10/16 | |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 232904 03/10/16 | |
| sec-Butylbenzene | ND | 0.5 | 232904 03/10/16 | |
| para-Isopropyl Toluene | ND | 0.5 | 232904 03/10/16 | |
| 1,3-Dichlorobenzene | ND | 0.5 | 232904 03/10/16 | |
| 1,4-Dichlorobenzene | ND | 0.5 | 232904 03/10/16 | |
| n-Butylbenzene | ND | 0.5 | 232904 03/10/16 | |
| 1,2-Dichlorobenzene | ND | 0.5 | 232904 03/10/16 | |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 232904 03/10/16 | |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 232904 03/10/16 | |
| Hexachlorobutadiene | ND | 0.5 | 232904 03/10/16 | |
| Naphthalene | ND | 0.5 | 232956 03/11/16 | |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 232904 03/10/16 | |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|-----------------------|------|--------|--------|----------|
| Dibromofluoromethane | 99 | 80-128 | 232904 | 03/10/16 |
| 1,2-Dichloroethane-d4 | 116 | 75-139 | 232904 | 03/10/16 |
| Toluene-d8 | 105 | 80-120 | 232904 | 03/10/16 |
| Bromofluorobenzene | 101 | 80-120 | 232904 | 03/10/16 |

RL= Reporting Limit



| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | |
| Field ID: | MW-9 | Diln Fac: | 1.000 | | | |
| Lab ID: | 274913-005 | Sampled: | 03/04/16 | | | |
| Matrix: | Water | Received: | 03/08/16 | | | |
| Units: | ug/L | | | | | |

| Analyte | Result | RL | Batch# Analyzed | |
|---------------------------|--------|-----|-----------------|--|
| Freon 12 | ND | 1.0 | 232904 03/10/16 | |
| Chloromethane | ND | 1.0 | 232904 03/10/16 | |
| Vinyl Chloride | ND | 0.5 | 232904 03/10/16 | |
| Bromomethane | ND | 1.0 | 232904 03/10/16 | |
| Chloroethane | ND | 1.0 | 232904 03/10/16 | |
| Trichlorofluoromethane | ND | 1.0 | 232904 03/10/16 | |
| Acetone | ND | 10 | 232904 03/10/16 | |
| Freon 113 | ND | 5.0 | 232904 03/10/16 | |
| 1,1-Dichloroethene | ND | 0.5 | 232904 03/10/16 | |
| Methylene Chloride | ND | 10 | 232904 03/10/16 | |
| Carbon Disulfide | ND | 0.5 | 232904 03/10/16 | |
| MTBE | ND | 0.5 | 232904 03/10/16 | |
| trans-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 | |
| Vinyl Acetate | ND | 10 | 232904 03/10/16 | |
| 1,1-Dichloroethane | ND | 0.5 | 232904 03/10/16 | |
| 2-Butanone | ND | 10 | 232904 03/10/16 | |
| cis-1,2-Dichloroethene | 1.7 | 0.5 | 232904 03/10/16 | |
| 2,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 | |
| Chloroform | ND | 0.5 | 232904 03/10/16 | |
| Bromochloromethane | ND | 0.5 | 232904 03/10/16 | |
| 1,1,1-Trichloroethane | ND | 0.5 | 232904 03/10/16 | |
| 1,1-Dichloropropene | ND | 0.5 | 232904 03/10/16 | |
| Carbon Tetrachloride | ND | 0.5 | 232904 03/10/16 | |
| 1,2-Dichloroethane | ND | 0.5 | 232904 03/10/16 | |
| Benzene | ND | 0.5 | 232904 03/10/16 | |
| Trichloroethene | 3.0 | 0.5 | 232904 03/10/16 | |
| 1,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 | |
| Bromodichloromethane | ND | 0.5 | 232904 03/10/16 | |
| Dibromomethane | ND | 0.5 | 232904 03/10/16 | |
| 4-Methyl-2-Pentanone | ND | 10 | 232904 03/10/16 | |
| cis-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 | |
| Toluene | ND | 0.5 | 232904 03/10/16 | |
| trans-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 | |
| 1,1,2-Trichloroethane | ND | 0.5 | 232904 03/10/16 | |
| 2-Hexanone | ND | 10 | 232904 03/10/16 | |
| 1,3-Dichloropropane | ND | 0.5 | 232904 03/10/16 | |
| Tetrachloroethene | ND | 0.5 | 232904 03/10/16 | |
| Dibromochloromethane | ND | 0.5 | 232904 03/10/16 | |

RL= Reporting Limit



| | Purgeable (| organics by GC/ | ′MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-9 | Diln Fac: | 1.000 |
| Lab ID: | 274913-005 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|-----------------------------|--------|-----|--------|----------|
| 1,2-Dibromoethane | ND | 0.5 | | 03/10/16 |
| Chlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| Ethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| m,p-Xylenes | ND | 0.5 | 232904 | 03/10/16 |
| o-Xylene | ND | 0.5 | 232904 | 03/10/16 |
| Styrene | ND | 0.5 | 232904 | 03/10/16 |
| Bromoform | ND | 1.0 | 232904 | 03/10/16 |
| Isopropylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,3-Trichloropropane | ND | 0.5 | 232904 | 03/10/16 |
| Propylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| Bromobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 2-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| 4-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| tert-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| sec-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| para-Isopropyl Toluene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,4-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| n-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 232904 | 03/10/16 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| Hexachlorobutadiene | ND | 0.5 | 232904 | 03/10/16 |
| Naphthalene | ND | 0.5 | 232956 | 03/11/16 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed | |
|-----------------------|------|--------|--------|----------|--|
| Dibromofluoromethane | 101 | 80-128 | 232904 | 03/10/16 | |
| 1,2-Dichloroethane-d4 | 117 | 75-139 | 232904 | 03/10/16 | |
| Toluene-d8 | 100 | 80-120 | 232904 | 03/10/16 | |
| Bromofluorobenzene | 100 | 80-120 | 232904 | 03/10/16 | |

RL= Reporting Limit



| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | |
| Field ID: | MW-FP6 | Diln Fac: | 1.000 | | | |
| Lab ID: | 274913-006 | Sampled: | 03/04/16 | | | |
| Matrix: | Water | Received: | 03/08/16 | | | |
| Units: | ug/L | | | | | |

| _ | _ | | |
|---------------------------|--------|-----|-----------------|
| Analyte | Result | RL | Batch# Analyzed |
| Freon 12 | ND | 1.0 | 232904 03/10/16 |
| Chloromethane | ND | 1.0 | 232904 03/10/16 |
| Vinyl Chloride | ND | 0.5 | 232904 03/10/16 |
| Bromomethane | ND | 1.0 | 232904 03/10/16 |
| Chloroethane | ND | 1.0 | 232904 03/10/16 |
| Trichlorofluoromethane | ND | 1.0 | 232904 03/10/16 |
| Acetone | ND | 10 | 232904 03/10/16 |
| Freon 113 | ND | 5.0 | 232904 03/10/16 |
| 1,1-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| Methylene Chloride | ND | 10 | 232904 03/10/16 |
| Carbon Disulfide | ND | 0.5 | 232904 03/10/16 |
| MTBE | ND | 0.5 | 232904 03/10/16 |
| trans-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| Vinyl Acetate | ND | 10 | 232904 03/10/16 |
| 1,1-Dichloroethane | ND | 0.5 | 232904 03/10/16 |
| 2-Butanone | ND | 10 | 232904 03/10/16 |
| cis-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| 2,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Chloroform | ND | 0.5 | 232904 03/10/16 |
| Bromochloromethane | ND | 0.5 | 232904 03/10/16 |
| 1,1,1-Trichloroethane | ND | 0.5 | 232904 03/10/16 |
| 1,1-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| Carbon Tetrachloride | ND | 0.5 | 232904 03/10/16 |
| 1,2-Dichloroethane | ND | 0.5 | 232904 03/10/16 |
| Benzene | ND | 0.5 | 232904 03/10/16 |
| Trichloroethene | 9.9 | 0.5 | 232904 03/10/16 |
| 1,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Bromodichloromethane | ND | 0.5 | 232904 03/10/16 |
| Dibromomethane | ND | 0.5 | 232904 03/10/16 |
| 4-Methyl-2-Pentanone | ND | 10 | 232904 03/10/16 |
| cis-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| Toluene | ND | 0.5 | 232904 03/10/16 |
| trans-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| 1,1,2-Trichloroethane | ND | 0.5 | 232904 03/10/16 |
| 2-Hexanone | ND | 10 | 232904 03/10/16 |
| 1,3-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Tetrachloroethene | ND | 0.5 | 232904 03/10/16 |
| Dibromochloromethane | ND | 0.5 | 232904 03/10/16 |

RL= Reporting Limit



| | Purgeable C | organics by GC/ | /MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-FP6 | Diln Fac: | 1.000 |
| Lab ID: | 274913-006 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|-----------------------------|--------|-----|--------|----------|
| 1,2-Dibromoethane | ND | 0.5 | | 03/10/16 |
| Chlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| Ethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| m,p-Xylenes | ND | 0.5 | 232904 | 03/10/16 |
| o-Xylene | ND | 0.5 | 232904 | 03/10/16 |
| Styrene | ND | 0.5 | 232904 | 03/10/16 |
| Bromoform | ND | 1.0 | 232904 | 03/10/16 |
| Isopropylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,3-Trichloropropane | ND | 0.5 | 232904 | 03/10/16 |
| Propylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| Bromobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 2-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| 4-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| tert-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| sec-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| para-Isopropyl Toluene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,4-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| n-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 232904 | 03/10/16 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| Hexachlorobutadiene | ND | 0.5 | 232904 | 03/10/16 |
| Naphthalene | ND | 0.5 | 232956 | 03/11/16 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|-----------------------|------|--------|--------|----------|
| Dibromofluoromethane | 100 | 80-128 | 232904 | 03/10/16 |
| 1,2-Dichloroethane-d4 | 116 | 75-139 | 232904 | 03/10/16 |
| Toluene-d8 | 101 | 80-120 | 232904 | 03/10/16 |
| Bromofluorobenzene | 101 | 80-120 | 232904 | 03/10/16 |

RL= Reporting Limit



| | Purgeable C | organics by GC/ | 'MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-FP5 | Diln Fac: | 1.000 |
| Lab ID: | 274913-007 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# Analyzed |
|---------------------------|--------|-----|-----------------|
| Freon 12 | ND | 1.0 | 232904 03/10/16 |
| Chloromethane | ND | 1.0 | 232904 03/10/16 |
| Vinyl Chloride | ND | 0.5 | 232904 03/10/16 |
| Bromomethane | ND | 1.0 | 232904 03/10/16 |
| Chloroethane | ND | 1.0 | 232904 03/10/16 |
| Trichlorofluoromethane | ND | 1.0 | 232904 03/10/16 |
| Acetone | ND | 10 | 232904 03/10/16 |
| Freon 113 | ND | 5.0 | 232904 03/10/16 |
| 1,1-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| Methylene Chloride | ND | 10 | 232904 03/10/16 |
| Carbon Disulfide | ND | 0.5 | 232904 03/10/16 |
| MTBE | ND | 0.5 | 232904 03/10/16 |
| trans-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| Vinyl Acetate | ND | 10 | 232904 03/10/16 |
| 1,1-Dichloroethane | ND | 0.5 | 232904 03/10/16 |
| 2-Butanone | ND | 10 | 232904 03/10/16 |
| cis-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| 2,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Chloroform | ND | 0.5 | 232904 03/10/16 |
| Bromochloromethane | ND | 0.5 | 232904 03/10/16 |
| 1,1,1-Trichloroethane | ND | 0.5 | 232904 03/10/16 |
| 1,1-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| Carbon Tetrachloride | ND | 0.5 | 232904 03/10/16 |
| 1,2-Dichloroethane | ND | 0.5 | 232904 03/10/16 |
| Benzene | ND | 0.5 | 232904 03/10/16 |
| Trichloroethene | 2.2 | 0.5 | 232904 03/10/16 |
| 1,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Bromodichloromethane | ND | 0.5 | 232904 03/10/16 |
| Dibromomethane | ND | 0.5 | 232904 03/10/16 |
| 4-Methyl-2-Pentanone | ND | 10 | 232904 03/10/16 |
| cis-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| Toluene | ND | 0.5 | 232904 03/10/16 |
| trans-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| 1,1,2-Trichloroethane | ND | 0.5 | 232904 03/10/16 |
| 2-Hexanone | ND | 10 | 232904 03/10/16 |
| 1,3-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Tetrachloroethene | ND | 0.5 | 232904 03/10/16 |
| Dibromochloromethane | ND | 0.5 | 232904 03/10/16 |

RL= Reporting Limit



| | Purgeable C | organics by GC/ | 'MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-FP5 | Diln Fac: | 1.000 |
| Lab ID: | 274913-007 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|-----------------------------|--------|-----|--------|----------|
| 1,2-Dibromoethane | ND | 0.5 | | 03/10/16 |
| Chlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| Ethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| m,p-Xylenes | ND | 0.5 | 232904 | 03/10/16 |
| o-Xylene | ND | 0.5 | 232904 | 03/10/16 |
| Styrene | ND | 0.5 | 232904 | 03/10/16 |
| Bromoform | ND | 1.0 | 232904 | 03/10/16 |
| Isopropylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,3-Trichloropropane | ND | 0.5 | 232904 | 03/10/16 |
| Propylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| Bromobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 2-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| 4-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| tert-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| sec-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| para-Isopropyl Toluene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,4-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| n-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 232904 | 03/10/16 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| Hexachlorobutadiene | ND | 0.5 | 232904 | 03/10/16 |
| Naphthalene | ND | 0.5 | 232956 | 03/11/16 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|-----------------------|------|--------|--------|----------|
| Dibromofluoromethane | 97 | 80-128 | 232904 | 03/10/16 |
| 1,2-Dichloroethane-d4 | 113 | 75-139 | 232904 | 03/10/16 |
| Toluene-d8 | 102 | 80-120 | 232904 | 03/10/16 |
| Bromofluorobenzene | 98 | 80-120 | 232904 | 03/10/16 |

RL= Reporting Limit



| | Purgeable O | rganics by GC/ | MS |
|-----------|------------------------|----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-FP1 | Diln Fac: | 1.000 |
| Lab ID: | 274913-008 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# Analyzed |
|---------------------------|--------|-----|-----------------|
| Freon 12 | ND | 1.0 | 232904 03/10/16 |
| Chloromethane | ND | 1.0 | 232904 03/10/16 |
| Vinyl Chloride | ND | 0.5 | 232904 03/10/16 |
| Bromomethane | ND | 1.0 | 232904 03/10/16 |
| Chloroethane | ND | 1.0 | 232904 03/10/16 |
| Trichlorofluoromethane | ND | 1.0 | 232904 03/10/16 |
| Acetone | ND | 10 | 232904 03/10/16 |
| Freon 113 | ND | 5.0 | 232904 03/10/16 |
| 1,1-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| Methylene Chloride | ND | 10 | 232904 03/10/16 |
| Carbon Disulfide | ND | 0.5 | 232904 03/10/16 |
| MTBE | ND | 0.5 | 232904 03/10/16 |
| trans-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| Vinyl Acetate | ND | 10 | 232904 03/10/16 |
| 1,1-Dichloroethane | ND | 0.5 | 232904 03/10/16 |
| 2-Butanone | ND | 10 | 232904 03/10/16 |
| cis-1,2-Dichloroethene | ND | 0.5 | 232904 03/10/16 |
| 2,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Chloroform | ND | 0.5 | 232904 03/10/16 |
| Bromochloromethane | ND | 0.5 | 232904 03/10/16 |
| 1,1,1-Trichloroethane | ND | 0.5 | 232904 03/10/16 |
| 1,1-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| Carbon Tetrachloride | ND | 0.5 | 232904 03/10/16 |
| 1,2-Dichloroethane | ND | 0.5 | 232904 03/10/16 |
| Benzene | ND | 0.5 | 232904 03/10/16 |
| Trichloroethene | ND | 0.5 | 232904 03/10/16 |
| 1,2-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Bromodichloromethane | ND | 0.5 | 232904 03/10/16 |
| Dibromomethane | ND | 0.5 | 232904 03/10/16 |
| 4-Methyl-2-Pentanone | ND | 10 | 232904 03/10/16 |
| cis-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| Toluene | ND | 0.5 | 232904 03/10/16 |
| trans-1,3-Dichloropropene | ND | 0.5 | 232904 03/10/16 |
| 1,1,2-Trichloroethane | ND | 0.5 | 232904 03/10/16 |
| 2-Hexanone | ND | 10 | 232904 03/10/16 |
| 1,3-Dichloropropane | ND | 0.5 | 232904 03/10/16 |
| Tetrachloroethene | ND | 0.5 | 232904 03/10/16 |
| Dibromochloromethane | ND | 0.5 | 232904 03/10/16 |

RL= Reporting Limit



| | Purgeable C | organics by GC/ | 'MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-FP1 | Diln Fac: | 1.000 |
| Lab ID: | 274913-008 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|-----------------------------|--------|-----|--------|----------|
| 1,2-Dibromoethane | ND | 0.5 | | 03/10/16 |
| Chlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| Ethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| m,p-Xylenes | ND | 0.5 | 232904 | 03/10/16 |
| o-Xylene | ND | 0.5 | 232904 | 03/10/16 |
| Styrene | ND | 0.5 | 232904 | 03/10/16 |
| Bromoform | ND | 1.0 | 232904 | 03/10/16 |
| Isopropylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,3-Trichloropropane | ND | 0.5 | 232904 | 03/10/16 |
| Propylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| Bromobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 2-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| 4-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| tert-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| sec-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| para-Isopropyl Toluene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,4-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| n-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 232904 | 03/10/16 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| Hexachlorobutadiene | ND | 0.5 | 232904 | 03/10/16 |
| Naphthalene | ND | 0.5 | 232956 | 03/11/16 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|-----------------------|------|--------|--------|----------|
| Dibromofluoromethane | 99 | 80-128 | 232904 | 03/10/16 |
| 1,2-Dichloroethane-d4 | 121 | 75-139 | 232904 | 03/10/16 |
| Toluene-d8 | 106 | 80-120 | 232904 | 03/10/16 |
| Bromofluorobenzene | 104 | 80-120 | 232904 | 03/10/16 |

RL= Reporting Limit



| | Purgeable C | organics by GC/ | 'MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-FP3 | Diln Fac: | 1.000 |
| Lab ID: | 274913-009 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# Ar | nalyzed |
|---------------------------|--------|-----|-----------|---------|
| Freon 12 | ND | 1.0 | 232904 03 | |
| Chloromethane | ND | 1.0 | 232904 03 | 3/10/16 |
| Vinyl Chloride | ND | 0.5 | 232904 03 | 3/10/16 |
| Bromomethane | ND | 1.0 | 232904 03 | 3/10/16 |
| Chloroethane | ND | 1.0 | 232904 03 | 3/10/16 |
| Trichlorofluoromethane | ND | 1.0 | 232904 03 | 3/10/16 |
| Acetone | ND | 10 | 232904 03 | 3/10/16 |
| Freon 113 | ND | 5.0 | 232904 03 | 3/10/16 |
| 1,1-Dichloroethene | ND | 0.5 | 232904 03 | 3/10/16 |
| Methylene Chloride | ND | 10 | 232904 03 | 3/10/16 |
| Carbon Disulfide | ND | 0.5 | 232904 03 | 3/10/16 |
| MTBE | ND | 0.5 | 232904 03 | 3/10/16 |
| trans-1,2-Dichloroethene | ND | 0.5 | 232904 03 | 3/10/16 |
| Vinyl Acetate | ND | 10 | 232904 03 | 3/10/16 |
| 1,1-Dichloroethane | ND | 0.5 | 232904 03 | 3/10/16 |
| 2-Butanone | ND | 10 | 232904 03 | 3/10/16 |
| cis-1,2-Dichloroethene | ND | 0.5 | 232904 03 | 3/10/16 |
| 2,2-Dichloropropane | ND | 0.5 | 232904 03 | 3/10/16 |
| Chloroform | ND | 0.5 | 232904 03 | 3/10/16 |
| Bromochloromethane | ND | 0.5 | 232904 03 | 3/10/16 |
| 1,1,1-Trichloroethane | ND | 0.5 | 232904 03 | 3/10/16 |
| 1,1-Dichloropropene | ND | 0.5 | 232904 03 | 3/10/16 |
| Carbon Tetrachloride | ND | 0.5 | 232904 03 | 3/10/16 |
| 1,2-Dichloroethane | ND | 0.5 | 232904 03 | 3/10/16 |
| Benzene | ND | 0.5 | 232904 03 | 3/10/16 |
| Trichloroethene | ND | 0.5 | 232904 03 | 3/10/16 |
| 1,2-Dichloropropane | ND | 0.5 | 232904 03 | 3/10/16 |
| Bromodichloromethane | ND | 0.5 | 232904 03 | 3/10/16 |
| Dibromomethane | ND | 0.5 | 232904 03 | 3/10/16 |
| 4-Methyl-2-Pentanone | ND | 10 | 232904 03 | 3/10/16 |
| cis-1,3-Dichloropropene | ND | 0.5 | 232904 03 | 3/10/16 |
| Toluene | ND | 0.5 | 232904 03 | 3/10/16 |
| trans-1,3-Dichloropropene | ND | 0.5 | 232904 03 | 3/10/16 |
| 1,1,2-Trichloroethane | ND | 0.5 | 232904 03 | 3/10/16 |
| 2-Hexanone | ND | 10 | 232904 03 | 3/10/16 |
| 1,3-Dichloropropane | ND | 0.5 | 232904 03 | 3/10/16 |
| Tetrachloroethene | ND | 0.5 | 232904 03 | 3/10/16 |
| Dibromochloromethane | ND | 0.5 | 232904 03 | 3/10/16 |

RL= Reporting Limit



| | Purgeable C | organics by GC/ | 'MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | MW-FP3 | Diln Fac: | 1.000 |
| Lab ID: | 274913-009 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Analyzed |
|-----------------------------|--------|-----|--------|----------|
| 1,2-Dibromoethane | ND | 0.5 | | 03/10/16 |
| Chlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| Ethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| m,p-Xylenes | ND | 0.5 | 232904 | 03/10/16 |
| o-Xylene | ND | 0.5 | 232904 | 03/10/16 |
| Styrene | ND | 0.5 | 232904 | 03/10/16 |
| Bromoform | ND | 1.0 | 232904 | 03/10/16 |
| Isopropylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,3-Trichloropropane | ND | 0.5 | 232904 | 03/10/16 |
| Propylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| Bromobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 2-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| 4-Chlorotoluene | ND | 0.5 | 232904 | 03/10/16 |
| tert-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| sec-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| para-Isopropyl Toluene | ND | 0.5 | 232904 | 03/10/16 |
| 1,3-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,4-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| n-Butylbenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 232904 | 03/10/16 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |
| Hexachlorobutadiene | ND | 0.5 | 232904 | 03/10/16 |
| Naphthalene | ND | 0.5 | 232956 | 03/11/16 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 232904 | 03/10/16 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|-----------------------|------|--------|--------|----------|
| Dibromofluoromethane | 98 | 80-128 | 232904 | 03/10/16 |
| 1,2-Dichloroethane-d4 | 118 | 75-139 | 232904 | 03/10/16 |
| Toluene-d8 | 101 | 80-120 | 232904 | 03/10/16 |
| Bromofluorobenzene | 102 | 80-120 | 232904 | 03/10/16 |

RL= Reporting Limit



| | Purgeable C | organics by GC/ | 'MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 232880 |
| Units: | ug/L | Analyzed: | 03/09/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC826643

| Analyte | Spiked | Result | %REC | Limits |
|--------------------|--------|--------|------|--------|
| 1,1-Dichloroethene | 12.50 | 10.51 | 84 | 66-135 |
| Benzene | 12.50 | 12.62 | 101 | 80-123 |
| Trichloroethene | 12.50 | 13.45 | 108 | 80-123 |
| Toluene | 12.50 | 12.61 | 101 | 80-121 |
| Chlorobenzene | 12.50 | 12.82 | 103 | 80-123 |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 99 | 80-128 | |
| 1,2-Dichloroethane-d4 | 131 | 75-139 | |
| Toluene-d8 | 101 | 80-120 | |
| Bromofluorobenzene | 107 | 80-120 | |

Type: BSD Lab ID: QC826644

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------------|--------|--------|------|--------|-----|-----|
| 1,1-Dichloroethene | 12.50 | 10.64 | 85 | 66-135 | 1 | 24 |
| Benzene | 12.50 | 11.50 | 92 | 80-123 | 9 | 20 |
| Trichloroethene | 12.50 | 13.39 | 107 | 80-123 | 0 | 20 |
| Toluene | 12.50 | 12.78 | 102 | 80-121 | 1 | 20 |
| Chlorobenzene | 12.50 | 12.85 | 103 | 80-123 | 0 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 99 | 80-128 |
| 1,2-Dichloroethane-d4 | 125 | 75-139 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 105 | 80-120 |



| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | |
| Lab ID: | QC826645 | Batch#: | 232880 | | | |
| Matrix: | Water | Analyzed: | 03/09/16 | | | |
| Units: | ug/L | | | | | |

| Analyte | Result | RL | |
|---------------------------|--------|-----|--|
| Freon 12 | ND | 1.0 | |
| Chloromethane | ND | 1.0 | |
| Vinyl Chloride | ND | 0.5 | |
| Bromomethane | ND | 1.0 | |
| Chloroethane | ND | 1.0 | |
| Trichlorofluoromethane | ND | 1.0 | |
| Acetone | ND | 10 | |
| Freon 113 | ND | 5.0 | |
| 1,1-Dichloroethene | ND | 0.5 | |
| Methylene Chloride | ND | 10 | |
| Carbon Disulfide | ND | 0.5 | |
| MTBE | ND | 0.5 | |
| trans-1,2-Dichloroethene | ND | 0.5 | |
| Vinyl Acetate | ND | 10 | |
| 1,1-Dichloroethane | ND | 0.5 | |
| 2-Butanone | ND | 10 | |
| cis-1,2-Dichloroethene | ND | 0.5 | |
| 2,2-Dichloropropane | ND | 0.5 | |
| Chloroform | ND | 0.5 | |
| Bromochloromethane | ND | 0.5 | |
| 1,1,1-Trichloroethane | ND | 0.5 | |
| 1,1-Dichloropropene | ND | 0.5 | |
| Carbon Tetrachloride | ND | 0.5 | |
| 1,2-Dichloroethane | ND | 0.5 | |
| Benzene | ND | 0.5 | |
| Trichloroethene | ND | 0.5 | |
| 1,2-Dichloropropane | ND | 0.5 | |
| Bromodichloromethane | ND | 0.5 | |
| Dibromomethane | ND | 0.5 | |
| 4-Methyl-2-Pentanone | ND | 10 | |
| cis-1,3-Dichloropropene | ND | 0.5 | |
| Toluene | ND | 0.5 | |
| trans-1,3-Dichloropropene | ND | 0.5 | |
| 1,1,2-Trichloroethane | ND | 0.5 | |
| 2-Hexanone | ND | 10 | |
| 1,3-Dichloropropane | ND | 0.5 | |
| Tetrachloroethene | ND | 0.5 | |

ND= Not Detected

RL= Reporting Limit

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| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | |
| Lab ID: | QC826645 | Batch#: | 232880 | | | |
| Matrix: | Water | Analyzed: | 03/09/16 | | | |
| Units: | ug/L | | | | | |

| Analyte | Result | RL | |
|-----------------------------|--------|-----|--|
| Dibromochloromethane | ND | 0.5 | |
| 1,2-Dibromoethane | ND | 0.5 | |
| Chlorobenzene | ND | 0.5 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | |
| Ethylbenzene | ND | 0.5 | |
| m,p-Xylenes | ND | 0.5 | |
| o-Xylene | ND | 0.5 | |
| Styrene | ND | 0.5 | |
| Bromoform | ND | 1.0 | |
| Isopropylbenzene | ND | 0.5 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | |
| 1,2,3-Trichloropropane | ND | 0.5 | |
| Propylbenzene | ND | 0.5 | |
| Bromobenzene | ND | 0.5 | |
| 1,3,5-Trimethylbenzene | ND | 0.5 | |
| 2-Chlorotoluene | ND | 0.5 | |
| 4-Chlorotoluene | ND | 0.5 | |
| tert-Butylbenzene | ND | 0.5 | |
| 1,2,4-Trimethylbenzene | ND | 0.5 | |
| sec-Butylbenzene | ND | 0.5 | |
| para-Isopropyl Toluene | ND | 0.5 | |
| 1,3-Dichlorobenzene | ND | 0.5 | |
| 1,4-Dichlorobenzene | ND | 0.5 | |
| n-Butylbenzene | ND | 0.5 | |
| 1,2-Dichlorobenzene | ND | 0.5 | |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | |
| 1,2,4-Trichlorobenzene | ND | 0.5 | |
| Hexachlorobutadiene | ND | 0.5 | |
| Naphthalene | ND | 0.5 | |
| 1,2,3-Trichlorobenzene | ND | 0.5 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 104 | 80-128 | |
| 1,2-Dichloroethane-d4 | 139 | 75-139 | |
| Toluene-d8 | 103 | 80-120 | |
| Bromofluorobenzene | 112 | 80-120 | |

ND= Not Detected

RL= Reporting Limit

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| | Purgeable C | organics by GC/ | 'MS |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 232904 |
| Units: | ${	t ug/L}$ | Analyzed: | 03/10/16 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC826743

| Analyte | Spiked | Result | %REC | Limits |
|--------------------|--------|--------|------|--------|
| 1,1-Dichloroethene | 12.50 | 11.93 | 95 | 66-135 |
| Benzene | 12.50 | 13.62 | 109 | 80-123 |
| Trichloroethene | 12.50 | 12.69 | 102 | 80-123 |
| Toluene | 12.50 | 12.88 | 103 | 80-121 |
| Chlorobenzene | 12.50 | 12.81 | 103 | 80-123 |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 99 | 80-128 | |
| 1,2-Dichloroethane-d4 | 113 | 75-139 | |
| Toluene-d8 | 105 | 80-120 | |
| Bromofluorobenzene | 96 | 80-120 | |

Type: BSD Lab ID: QC826744

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------------|--------|--------|------|--------|-----|-----|
| 1,1-Dichloroethene | 12.50 | 11.03 | 88 | 66-135 | 8 | 24 |
| Benzene | 12.50 | 13.19 | 106 | 80-123 | 3 | 20 |
| Trichloroethene | 12.50 | 12.63 | 101 | 80-123 | 0 | 20 |
| Toluene | 12.50 | 12.51 | 100 | 80-121 | 3 | 20 |
| Chlorobenzene | 12.50 | 12.75 | 102 | 80-123 | 0 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 93 | 80-128 |
| 1,2-Dichloroethane-d4 | 108 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 96 | 80-120 |



| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | |
| Lab ID: | QC826745 | Batch#: | 232904 | | | |
| Matrix: | Water | Analyzed: | 03/10/16 | | | |
| Units: | ug/L | | | | | |

| Preon 12 | Analyte | Result | RL | |
|--|----------|--------|----|--|
| Chloromethane | | | | |
| Vinyl Chloride ND 0.5 Bromomethane ND 1.0 Chloroethane ND 1.0 Trichlorofluoromethane ND 1.0 Acetone ND 1.0 Freon 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 0.5 MTBE ND 0.5 Carbon Disulfide ND 0.5 MTBE ND 0.5 Vinyl Acetate ND 0.5 Vinyl Acetate ND 0.5 2-Butanone ND 0.5 2-Butanone ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethane ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,2-Dichloropropane ND 0.5 Benzene | | | | |
| Bromomethane ND 1.0 Chloroethane ND 1.0 Trichlorofluoromethane ND 1.0 Acetone ND 10 Freon 113 ND 5.0 1,1-Dichlorothene ND 0.5 Methylene Chloride ND 0.5 Methylene Chloride ND 0.5 MTBE ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 0.5 Vinyl Acetate ND 0.5 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloroptopane ND 0.5 2,2-Dichloroptopane ND 0.5 Bromochloromethane ND 0.5 1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroptopane ND 0.5 < | | | | |
| Chloroethane ND 1.0 Trichlorofluoromethane ND 1.0 Acetone ND 10 Freon 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 0.5 Cabol Titylo | _ | | | |
| Trichlorofluoromethane ND 1.0 Acetone ND 10 Freon 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 0.5 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2,2-Dichloropethene ND 0.5 2,2-Dichloroperopane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1,2-Dichloropropene ND 0.5 2-Dichloroethane ND 0.5 2-Dichloropropane ND 0.5 Trichloroethane ND 0.5 1,2-Dichloropropane ND 0.5 Trichloroethane ND <td< td=""><td></td><td></td><td></td><td></td></td<> | | | | |
| Acetone ND 10 Freon 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 0.5 MTBE ND 0.5 MTBE ND 0.5 Vinyl Acetate ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 cis-1,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 2,2-Dichloroethene ND 0.5 2,2-Dichloromethane ND 0.5 8romochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Prichloropropane ND 0.5 Bromodichloromethane ND 0.5 1,2-Dichloropropane ND 0.5< | | | | |
| Freon 113 | | | | |
| 1,1-Dichloroethene | | | | |
| Methylene Chloride ND 10 Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 1,2-Dichloroethane ND 0.5 1,2-Dichloroethane ND 0.5 Princhloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Promodichloromethane ND 0.5 1,2-Dichloropropane ND 0.5 Promodichloromethane ND 0.5 Dibromomethane ND | | | | |
| Carbon Disulfide ND 0.5 MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2-Butanone ND 0.5 2,2-Dichloroethene ND 0.5 Chloroform ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1-Trichloroethane ND 0.5 1,1-Trichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Promodichloromethane ND 0.5 1,2-Dichloropropene ND 0.5 Promodichloromethane ND 0.5 Obstraction 0.5 0.5 | | | | |
| MTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 10 cis-1,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 1,2-Dichloroethane ND 0.5 2,2-Dichloroethane ND 0.5 Trichloroethene ND 0.5 Typical Control | _ | | | |
| trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 10 cis-1,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloropropane ND 0.5 1,2-Dichloropropane ND 0.5 Pobromomethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 0.5 Toluene ND 0.5 Toluene ND 0.5 Trickloroethane ND 0.5 4-Methyl-2-Pentanone ND <t< td=""><td></td><td></td><td></td><td></td></t<> | | | | |
| Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 10 cis-1,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 1,2-Dichloropropene ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 1,2-Dichloropropane ND 0.5 1,2-Dichloromethane ND 0.5 1,2-Dichloropropane ND 0.5 4-Methyl-2-Pentanone ND 0.5 Toluene ND 0.5 Toluene ND 0.5 Toluene ND 0.5 1,1,2-Trichloroethane ND 0. | | | | |
| 1,1-Dichloroethane ND 0.5 2-Butanone ND 10 cis-1,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 0.5 Toluene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 0.5 | | | | |
| 2-Butanone ND 10 cis-1,2-Dichloroethene ND 0.5 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 0.5 Toluene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 0.5 | _ | | | |
| cis-1,2-DichloroetheneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.51,2-DichloroethaneND0.5BenzeneND0.5TrichloroetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.54-Methyl-2-PentanoneND0.5Cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND0.5 | | | | |
| 2,2-Dichloropropane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 0.5 Toluene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 0.5 | | | | |
| Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Bromodichloromethane ND 0.5 Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 0.5 Toluene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 0.5 | | | | |
| Bromochloromethane ND 0.5 1,1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloroethene ND 0.5 Trichloropropane ND 0.5 Bromodichloromethane ND 0.5 Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 0.5 | | | | |
| 1,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.51,2-DichloroethaneND0.5BenzeneND0.5TrichloroetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.54-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND0.5 | | | | |
| 1,1-DichloropropeneND0.5Carbon TetrachlorideND0.51,2-DichloroethaneND0.5BenzeneND0.5TrichloroetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.54-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND0.5 | | | | |
| Carbon Tetrachloride ND 0.5 1,2-Dichloroethane ND 0.5 Benzene ND 0.5 Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 10 cis-1,3-Dichloropropene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 0.5 | | | | |
| 1,2-DichloroethaneND0.5BenzeneND0.5TrichloroetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.54-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND10 | | | | |
| Benzene ND 0.5 Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 10 cis-1,3-Dichloropropene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 10 | | | | |
| Trichloroethene ND 0.5 1,2-Dichloropropane ND 0.5 Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 10 cis-1,3-Dichloropropene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 10 | 1 · · | | | |
| 1,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.54-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND10 | | | | |
| Bromodichloromethane ND 0.5 Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 10 cis-1,3-Dichloropropene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 10 | | | | |
| Dibromomethane ND 0.5 4-Methyl-2-Pentanone ND 10 cis-1,3-Dichloropropene ND 0.5 Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 10 | | | | |
| 4-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND10 | | | | |
| cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND10 | | | | |
| Toluene ND 0.5 trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 10 | <u> </u> | | | |
| trans-1,3-Dichloropropene ND 0.5 1,1,2-Trichloroethane ND 0.5 2-Hexanone ND 10 | | | | |
| 1,1,2-TrichloroethaneND0.52-HexanoneND10 | | | | |
| 2-Hexanone ND 10 | | | | |
| | | | | |
| 1,5 Diction optiopation 10.5 | | | | |
| Tetrachloroethene ND 0.5 | | | | |

ND= Not Detected

RL= Reporting Limit

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| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | |
| Lab ID: | QC826745 | Batch#: | 232904 | | | |
| Matrix: | Water | Analyzed: | 03/10/16 | | | |
| Units: | ug/L | | | | | |

| Analyte | Result | RL | |
|-----------------------------|--------|-----|--|
| Dibromochloromethane | ND | 0.5 | |
| 1,2-Dibromoethane | ND | 0.5 | |
| Chlorobenzene | ND | 0.5 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | |
| Ethylbenzene | ND | 0.5 | |
| m,p-Xylenes | ND | 0.5 | |
| o-Xylene | ND | 0.5 | |
| Styrene | ND | 0.5 | |
| Bromoform | ND | 1.0 | |
| Isopropylbenzene | ND | 0.5 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | |
| 1,2,3-Trichloropropane | ND | 0.5 | |
| Propylbenzene | ND | 0.5 | |
| Bromobenzene | ND | 0.5 | |
| 1,3,5-Trimethylbenzene | ND | 0.5 | |
| 2-Chlorotoluene | ND | 0.5 | |
| 4-Chlorotoluene | ND | 0.5 | |
| tert-Butylbenzene | ND | 0.5 | |
| 1,2,4-Trimethylbenzene | ND | 0.5 | |
| sec-Butylbenzene | ND | 0.5 | |
| para-Isopropyl Toluene | ND | 0.5 | |
| 1,3-Dichlorobenzene | ND | 0.5 | |
| 1,4-Dichlorobenzene | ND | 0.5 | |
| n-Butylbenzene | ND | 0.5 | |
| 1,2-Dichlorobenzene | ND | 0.5 | |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | |
| 1,2,4-Trichlorobenzene | ND | 0.5 | |
| Hexachlorobutadiene | ND | 0.5 | |
| Naphthalene | ND | 2.0 | |
| 1,2,3-Trichlorobenzene | ND | 0.5 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 98 | 80-128 | |
| 1,2-Dichloroethane-d4 | 114 | 75-139 | |
| Toluene-d8 | 103 | 80-120 | |
| Bromofluorobenzene | 104 | 80-120 | |

ND= Not Detected

RL= Reporting Limit



| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | |
| Matrix: | Water | Batch#: | 232956 | | | |
| Units: | ug/L | Analyzed: | 03/11/16 | | | |
| Diln Fac: | 1.000 | | | | | |

Type: BS Lab ID: QC826949

| Analyte | Spiked | Result | %REC | Limits |
|--------------------|--------|--------|------|--------|
| 1,1-Dichloroethene | 12.50 | 11.14 | 89 | 66-135 |
| Benzene | 12.50 | 11.89 | 95 | 80-123 |
| Trichloroethene | 12.50 | 11.64 | 93 | 80-123 |
| Toluene | 12.50 | 12.07 | 97 | 80-121 |
| Chlorobenzene | 12.50 | 12.22 | 98 | 80-123 |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 95 | 80-128 | |
| 1,2-Dichloroethane-d4 | 96 | 75-139 | |
| Toluene-d8 | 99 | 80-120 | |
| Bromofluorobenzene | 98 | 80-120 | |

Type: BSD Lab ID: QC826950

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------------|--------|--------|------|--------|-----|-----|
| 1,1-Dichloroethene | 12.50 | 11.04 | 88 | 66-135 | 1 | 24 |
| Benzene | 12.50 | 11.87 | 95 | 80-123 | 0 | 20 |
| Trichloroethene | 12.50 | 11.69 | 94 | 80-123 | 0 | 20 |
| Toluene | 12.50 | 11.98 | 96 | 80-121 | 1 | 20 |
| Chlorobenzene | 12.50 | 12.06 | 96 | 80-123 | 1 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 96 | 80-128 |
| 1,2-Dichloroethane-d4 | 97 | 75-139 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 98 | 80-120 |



| Purgeable Organics by GC/MS | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | |
| Type: | BLANK | Diln Fac: | 1.000 | | |
| Lab ID: | QC826951 | Batch#: | 232956 | | |
| Matrix: | Water | Analyzed: | 03/11/16 | | |
| Units: | ug/L | | | | |

| Analyte | Result | RL | |
|---------------------------|--------|-----|--|
| Freon 12 | ND | 1.0 | |
| Chloromethane | ND | 1.0 | |
| Vinyl Chloride | ND | 0.5 | |
| Bromomethane | ND | 1.0 | |
| Chloroethane | ND | 1.0 | |
| Trichlorofluoromethane | ND | 1.0 | |
| Acetone | ND | 10 | |
| Freon 113 | ND | 5.0 | |
| 1,1-Dichloroethene | ND | 0.5 | |
| Methylene Chloride | ND | 10 | |
| Carbon Disulfide | ND | 0.5 | |
| MTBE | ND | 0.5 | |
| trans-1,2-Dichloroethene | ND | 0.5 | |
| Vinyl Acetate | ND | 10 | |
| 1,1-Dichloroethane | ND | 0.5 | |
| 2-Butanone | ND | 10 | |
| cis-1,2-Dichloroethene | ND | 0.5 | |
| 2,2-Dichloropropane | ND | 0.5 | |
| Chloroform | ND | 0.5 | |
| Bromochloromethane | ND | 0.5 | |
| 1,1,1-Trichloroethane | ND | 0.5 | |
| 1,1-Dichloropropene | ND | 0.5 | |
| Carbon Tetrachloride | ND | 0.5 | |
| 1,2-Dichloroethane | ND | 0.5 | |
| Benzene | ND | 0.5 | |
| Trichloroethene | ND | 0.5 | |
| 1,2-Dichloropropane | ND | 0.5 | |
| Bromodichloromethane | ND | 0.5 | |
| Dibromomethane | ND | 0.5 | |
| 4-Methyl-2-Pentanone | ND | 10 | |
| cis-1,3-Dichloropropene | ND | 0.5 | |
| Toluene | ND | 0.5 | |
| trans-1,3-Dichloropropene | ND | 0.5 | |
| 1,1,2-Trichloroethane | ND | 0.5 | |
| 2-Hexanone | ND | 10 | |
| 1,3-Dichloropropane | ND | 0.5 | |
| Tetrachloroethene | ND | 0.5 | |

ND= Not Detected

RL= Reporting Limit

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| Purgeable Organics by GC/MS | | | | | | |
|-----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 5030B | | | |
| Project#: | STANDARD | Analysis: | EPA 8260B | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | |
| Lab ID: | QC826951 | Batch#: | 232956 | | | |
| Matrix: | Water | Analyzed: | 03/11/16 | | | |
| Units: | ug/L | | | | | |

| Analyte | Result | RL | |
|-----------------------------|--------|-----|--|
| Dibromochloromethane | ND | 0.5 | |
| 1,2-Dibromoethane | ND | 0.5 | |
| Chlorobenzene | ND | 0.5 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | |
| Ethylbenzene | ND | 0.5 | |
| m,p-Xylenes | ND | 0.5 | |
| o-Xylene | ND | 0.5 | |
| Styrene | ND | 0.5 | |
| Bromoform | ND | 1.0 | |
| Isopropylbenzene | ND | 0.5 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | |
| 1,2,3-Trichloropropane | ND | 0.5 | |
| Propylbenzene | ND | 0.5 | |
| Bromobenzene | ND | 0.5 | |
| 1,3,5-Trimethylbenzene | ND | 0.5 | |
| 2-Chlorotoluene | ND | 0.5 | |
| 4-Chlorotoluene | ND | 0.5 | |
| tert-Butylbenzene | ND | 0.5 | |
| 1,2,4-Trimethylbenzene | ND | 0.5 | |
| sec-Butylbenzene | ND | 0.5 | |
| para-Isopropyl Toluene | ND | 0.5 | |
| 1,3-Dichlorobenzene | ND | 0.5 | |
| 1,4-Dichlorobenzene | ND | 0.5 | |
| n-Butylbenzene | ND | 0.5 | |
| 1,2-Dichlorobenzene | ND | 0.5 | |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | |
| 1,2,4-Trichlorobenzene | ND | 0.5 | |
| Hexachlorobutadiene | ND | 0.8 | |
| Naphthalene | ND | 0.5 | |
| 1,2,3-Trichlorobenzene | ND | 0.5 | |

| Surrogate | %REC | Limits | |
|-----------------------|------|--------|--|
| Dibromofluoromethane | 97 | 80-128 | |
| 1,2-Dichloroethane-d4 | 97 | 75-139 | |
| Toluene-d8 | 99 | 80-120 | |
| Bromofluorobenzene | 99 | 80-120 | |

ND= Not Detected

RL= Reporting Limit

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| California Title 22 Metals | | | | | | | | | |
|----------------------------|------------------------|-----------|------------------------|--|--|--|--|--|--|
| Lab #: | 274913 | Project#: | STANDARD | | | | | | |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating | | | | | | |
| Field ID: | MW-FP4A | Units: | ug/L | | | | | | |
| Lab ID: | 274913-001 | Sampled: | 03/04/16 | | | | | | |
| Matrix: | Water | Received: | 03/08/16 | | | | | | |

| Analyte | Result | RL | Diln Fac | Batch# | Prepared | Analyzed | Prep | Analysis |
|------------|--------|------|----------|--------|----------|----------|-----------|-----------|
| Antimony | ND | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Arsenic | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Barium | 99 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Beryllium | ND | 2.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Cadmium | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Chromium | 10,000 | 500 | 100.0 | 232935 | 03/10/16 | 04/03/16 | EPA 3010A | EPA 6010B |
| Cobalt | 9.2 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Copper | 19 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Lead | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Mercury | ND | 0.20 | 1.000 | 233209 | 03/18/16 | 03/18/16 | METHOD | EPA 7470A |
| Molybdenum | 34 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Nickel | 130 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Selenium | 27 | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Silver | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Thallium | ND | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Vanadium | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Zinc | 89 | 20 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |

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| | California | Title 22 Metals | 3 |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Project#: | STANDARD |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating |
| Field ID: | MW-FP4B | Diln Fac: | 1.000 |
| Lab ID: | 274913-002 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | | Prep | An | alysis |
|------------|--------|--------|--------|----------|----------|------|-------|-----|--------|
| Antimony | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Arsenic | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Barium | 29 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Beryllium | ND | 2.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Cadmium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Chromium | 9 | .2 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Cobalt | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Copper | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Lead | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Mercury | ND | 0.20 | 233209 | 03/18/16 | 03/18/16 | METE | HOD | EPA | 7470A |
| Molybdenum | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Nickel | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Selenium | 11 | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Silver | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Thallium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Vanadium | 11 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Zinc | ND | 20 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |

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| | California T | itle 22 Metals | |
|-----------|------------------------|----------------|------------------------|
| Lab #: | 274913 | Project#: | STANDARD |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating |
| Field ID: | MW-FP7B | Diln Fac: | 1.000 |
| Lab ID: | 274913-003 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|------------|--------|------|--------|----------|----------|-----------|-----------|
| Antimony | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Arsenic | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Barium | 27 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Beryllium | ND | 2.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Cadmium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Chromium | 23 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Cobalt | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Copper | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Lead | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Mercury | ND | 0.20 | 233209 | 03/18/16 | 03/18/16 | METHOD | EPA 7470A |
| Molybdenum | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Nickel | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Selenium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Silver | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Thallium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Vanadium | 12 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Zinc | ND | 20 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |

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| | California | Title 22 Metals | 3 |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Project#: | STANDARD |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating |
| Field ID: | MW-FP2 | Diln Fac: | 1.000 |
| Lab ID: | 274913-004 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | I | Prep | Aı | nalysis |
|------------|--------|------|--------|----------|----------|-------|-------|-----|---------|
| Antimony | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Arsenic | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Barium | 32 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Beryllium | ND | 2.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Cadmium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Chromium | 19 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Cobalt | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Copper | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Lead | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Mercury | ND | 0.20 | 233209 | 03/18/16 | 03/18/16 | METHO | OD | EPA | 7470A |
| Molybdenum | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Nickel | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Selenium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Silver | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Thallium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Vanadium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |
| Zinc | ND | 20 | 232935 | 03/10/16 | 03/15/16 | EPA 3 | 3010A | EPA | 6010B |

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| | California T | itle 22 Metals | |
|-----------|------------------------|----------------|------------------------|
| Lab #: | 274913 | Project#: | STANDARD |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating |
| Field ID: | MW-9 | Diln Fac: | 1.000 |
| Lab ID: | 274913-005 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Pre | ep Analysis |
|------------|--------|------|--------|----------|----------|---------|---------------|
| Antimony | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Arsenic | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Barium | 40 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Beryllium | ND | 2.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Cadmium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Chromium | 930 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Cobalt | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Copper | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Lead | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Mercury | ND | 0.20 | 233209 | 03/18/16 | 03/18/16 | METHOD | EPA 7470A |
| Molybdenum | 5.5 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Nickel | 8.4 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Selenium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |
| Silver | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | OA EPA 6010B |
| Thallium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | OA EPA 6010B |
| Vanadium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | OA EPA 6010B |
| Zinc | ND | 20 | 232935 | 03/10/16 | 03/15/16 | EPA 303 | LOA EPA 6010B |

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| | California Title 22 Metals | | | | | | | | | |
|-----------|----------------------------|-----------|------------------------|--|--|--|--|--|--|--|
| Lab #: | 274913 | Project#: | STANDARD | | | | | | | |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating | | | | | | | |
| Field ID: | MW-FP6 | Units: | ug/L | | | | | | | |
| Lab ID: | 274913-006 | Sampled: | 03/04/16 | | | | | | | |
| Matrix: | Water | Received: | 03/08/16 | | | | | | | |

| Analyte | Result | RL | Diln Fac | Batch# | Prepared | Analyzed | Prep | Analysis |
|------------|--------|------|----------|--------|----------|----------|-----------|-----------|
| Antimony | ND | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Arsenic | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Barium | 54 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Beryllium | ND | 2.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Cadmium | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Chromium | 13,000 | 500 | 100.0 | 232935 | 03/10/16 | 03/27/16 | EPA 3010A | EPA 6010B |
| Cobalt | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Copper | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Lead | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Mercury | ND | 0.20 | 1.000 | 233209 | 03/18/16 | 03/18/16 | METHOD | EPA 7470A |
| Molybdenum | 5.5 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Nickel | 27 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Selenium | 17 | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Silver | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Thallium | ND | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Vanadium | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Zinc | ND | 20 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |



| California Title 22 Metals | | | | | | |
|----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Project#: | STANDARD | | | |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating | | | |
| Field ID: | MW-FP5 | Units: | ug/L | | | |
| Lab ID: | 274913-007 | Sampled: | 03/04/16 | | | |
| Matrix: | Water | Received: | 03/08/16 | | | |

| Analyte | Result | RL | Diln Fac | Batch# | Prepared | Analyzed | Prep | Analysis |
|------------|--------|------|----------|--------|----------|----------|-----------|-----------|
| Antimony | ND | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Arsenic | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Barium | 61 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Beryllium | ND | 2.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Cadmium | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Chromium | 16,000 | 500 | 100.0 | 232935 | 03/10/16 | 03/27/16 | EPA 3010A | EPA 6010B |
| Cobalt | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Copper | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Lead | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Mercury | ND | 0.20 | 1.000 | 233209 | 03/18/16 | 03/18/16 | METHOD | EPA 7470A |
| Molybdenum | 6.7 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Nickel | 18 | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Selenium | ND | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Silver | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Thallium | ND | 10 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Vanadium | ND | 5.0 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |
| Zinc | ND | 20 | 1.000 | 232935 | 03/10/16 | 03/15/16 | EPA 3010A | EPA 6010B |

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| | California | Title 22 Meta | ls |
|-----------|------------------------|---------------|------------------------|
| Lab #: | 274913 | Project#: | STANDARD |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating |
| Field ID: | MW-FP1 | Diln Fac: | 1.000 |
| Lab ID: | 274913-008 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | | Prep | Aı | nalysis |
|------------|--------|------|--------|----------|----------|------|-------|-----|---------|
| Antimony | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Arsenic | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Barium | 42 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Beryllium | ND | 2.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Cadmium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Chromium | 11 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Cobalt | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Copper | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Lead | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Mercury | ND | 0.20 | 233209 | 03/18/16 | 03/18/16 | METH | OD | EPA | 7470A |
| Molybdenum | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Nickel | 12 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Selenium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Silver | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Thallium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Vanadium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Zinc | ND | 20 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |

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| | California | Title 22 Metals | 3 |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Project#: | STANDARD |
| Client: | The Source Group, Inc. | Location: | Former Francis Plating |
| Field ID: | MW-FP3 | Diln Fac: | 1.000 |
| Lab ID: | 274913-009 | Sampled: | 03/04/16 |
| Matrix: | Water | Received: | 03/08/16 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | | Prep | Aı | nalysis |
|------------|--------|------|--------|----------|----------|------|-------|-----|---------|
| Antimony | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Arsenic | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Barium | 55 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Beryllium | ND | 2.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Cadmium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Chromium | 300 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Cobalt | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Copper | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Lead | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Mercury | ND | 0.20 | 233209 | 03/18/16 | 03/18/16 | METH | IOD | EPA | 7470A |
| Molybdenum | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Nickel | 29 | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Selenium | 14 | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Silver | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Thallium | ND | 10 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Vanadium | ND | 5.0 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |
| Zinc | ND | 20 | 232935 | 03/10/16 | 03/15/16 | EPA | 3010A | EPA | 6010B |

Page 1 of 1



| California Title 22 Metals | | | | | | |
|----------------------------|------------------------|-----------|------------------------|--|--|--|
| Lab #: | 274913 | Location: | Former Francis Plating | | | |
| Client: | The Source Group, Inc. | Prep: | EPA 3010A | | | |
| Project#: | STANDARD | Analysis: | EPA 6010B | | | |
| Type: | BLANK | Diln Fac: | 1.000 | | | |
| Lab ID: | QC826862 | Batch#: | 232935 | | | |
| Matrix: | Water | Prepared: | 03/10/16 | | | |
| Units: | ug/L | Analyzed: | 03/15/16 | | | |

| Analyte | Result | RL | |
|------------|--------|-----|--|
| Antimony | ND | 10 | |
| Arsenic | ND | 5.0 | |
| Barium | ND | 5.0 | |
| Beryllium | ND | 2.0 | |
| Cadmium | ND | 5.0 | |
| Chromium | ND | 5.0 | |
| Cobalt | ND | 5.0 | |
| Copper | ND | 5.0 | |
| Lead | ND | 5.0 | |
| Molybdenum | ND | 5.0 | |
| Nickel | ND | 5.0 | |
| Selenium | ND | 10 | |
| Silver | ND | 5.0 | |
| Thallium | ND | 10 | |
| Vanadium | ND | 5.0 | |
| Zinc | ND | 20 | |

ND= Not Detected RL= Reporting Limit

Page 1 of 1



| | California | Title 22 Metal | s |
|-----------|------------------------|----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 3010A |
| Project#: | STANDARD | Analysis: | EPA 6010B |
| Matrix: | Water | Batch#: | 232935 |
| Units: | ug/L | Prepared: | 03/10/16 |
| Diln Fac: | 1.000 | Analyzed: | 03/15/16 |

Type: BS Lab ID: QC826863

| Analyte | Spiked | Result | %REC | Limits |
|------------|--------|--------|------|--------|
| Antimony | 100.0 | 102.7 | 103 | 79-120 |
| Arsenic | 100.0 | 101.7 | 102 | 80-120 |
| Barium | 100.0 | 102.3 | 102 | 80-120 |
| Beryllium | 100.0 | 98.78 | 99 | 80-120 |
| Cadmium | 100.0 | 105.4 | 105 | 80-120 |
| Chromium | 100.0 | 100.3 | 100 | 80-120 |
| Cobalt | 100.0 | 97.99 | 98 | 80-120 |
| Copper | 100.0 | 100.3 | 100 | 80-120 |
| Lead | 100.0 | 98.80 | 99 | 80-120 |
| Molybdenum | 100.0 | 104.1 | 104 | 80-120 |
| Nickel | 100.0 | 96.97 | 97 | 80-120 |
| Selenium | 100.0 | 106.5 | 107 | 80-120 |
| Silver | 100.0 | 100.4 | 100 | 77-120 |
| Thallium | 50.00 | 50.14 | 100 | 80-121 |
| Vanadium | 100.0 | 104.8 | 105 | 80-120 |
| Zinc | 100.0 | 99.20 | 99 | 80-120 |

Type: BSD Lab ID: QC826864

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|------------|--------|--------|------|--------|-----|-----|
| Antimony | 100.0 | 99.79 | 100 | 79-120 | 3 | 20 |
| Arsenic | 100.0 | 99.52 | 100 | 80-120 | 2 | 20 |
| Barium | 100.0 | 100.3 | 100 | 80-120 | 2 | 20 |
| Beryllium | 100.0 | 97.10 | 97 | 80-120 | 2 | 20 |
| Cadmium | 100.0 | 104.0 | 104 | 80-120 | 1 | 20 |
| Chromium | 100.0 | 98.03 | 98 | 80-120 | 2 | 20 |
| Cobalt | 100.0 | 96.82 | 97 | 80-120 | 1 | 20 |
| Copper | 100.0 | 98.40 | 98 | 80-120 | 2 | 20 |
| Lead | 100.0 | 97.20 | 97 | 80-120 | 2 | 20 |
| Molybdenum | 100.0 | 101.9 | 102 | 80-120 | 2 | 20 |
| Nickel | 100.0 | 95.56 | 96 | 80-120 | 1 | 20 |
| Selenium | 100.0 | 102.4 | 102 | 80-120 | 4 | 20 |
| Silver | 100.0 | 98.55 | 99 | 77-120 | 2 | 20 |
| Thallium | 50.00 | 50.63 | 101 | 80-121 | 1 | 20 |
| Vanadium | 100.0 | 102.7 | 103 | 80-120 | 2 | 20 |
| Zinc | 100.0 | 97.55 | 98 | 80-120 | 2 | 20 |



| | California 1 | Title 22 Metals | |
|-------------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | EPA 3010A |
| Project#: | STANDARD | Analysis: | EPA 6010B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 232935 |
| MSS Lab ID: | 274534-003 | Sampled: | 02/22/16 |
| Matrix: | Water | Received: | 02/25/16 |
| Units: | ug/L | Prepared: | 03/10/16 |
| Diln Fac: | 1.000 | Analyzed: | 03/15/16 |

Type: MS Lab ID: QC826865

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|------------|------------|--------|--------|-------|--------|
| Antimony | <2.000 | 100.0 | 99.07 | 99 | 74-120 |
| Arsenic | <1.538 | 100.0 | 103.6 | 104 | 80-127 |
| Barium | 38.24 | 100.0 | 134.7 | 96 | 80-120 |
| Beryllium | <0.4000 | 100.0 | 97.83 | 98 | 80-120 |
| Cadmium | <1.000 | 100.0 | 103.9 | 104 | 80-120 |
| Chromium | 300.3 | 100.0 | 327.5 | 27 * | 80-120 |
| Cobalt | 2.924 | 100.0 | 99.82 | 97 | 80-120 |
| Copper | 6.732 | 100.0 | 104.6 | 98 | 80-120 |
| Lead | NA | 100.0 | 94.84 | -91 * | 67-120 |
| Molybdenum | 7.309 | 100.0 | 106.6 | 99 | 80-120 |
| Nickel | 65.12 | 100.0 | 154.9 | 90 | 80-120 |
| Selenium | 36.40 | 100.0 | 133.4 | 97 | 73-132 |
| Silver | 1.740 | 100.0 | 100.4 | 99 | 67-120 |
| Thallium | <2.000 | 50.00 | 46.92 | 94 | 76-121 |
| Vanadium | 13.88 | 100.0 | 114.6 | 101 | 80-120 |
| Zinc | 19.57 | 100.0 | 117.6 | 98 | 80-122 |

Type: MSD Lab ID: QC826866

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|------------|--------|--------|-------|--------|-----|-----|
| Antimony | 100.0 | 105.8 | 106 | 74-120 | 7 | 24 |
| Arsenic | 100.0 | 108.8 | 109 | 80-127 | 5 | 25 |
| Barium | 100.0 | 140.9 | 103 | 80-120 | 4 | 20 |
| Beryllium | 100.0 | 105.3 | 105 | 80-120 | 7 | 20 |
| Cadmium | 100.0 | 108.7 | 109 | 80-120 | 5 | 20 |
| Chromium | 100.0 | 344.1 | 44 * | 80-120 | 5 | 20 |
| Cobalt | 100.0 | 104.6 | 102 | 80-120 | 5 | 20 |
| Copper | 100.0 | 111.8 | 105 | 80-120 | 7 | 20 |
| Lead | 100.0 | 98.73 | -87 * | 67-120 | 4 | 23 |
| Molybdenum | 100.0 | 111.7 | 104 | 80-120 | 5 | 20 |
| Nickel | 100.0 | 163.0 | 98 | 80-120 | 5 | 20 |
| Selenium | 100.0 | 140.6 | 104 | 73-132 | 5 | 30 |
| Silver | 100.0 | 104.7 | 103 | 67-120 | 4 | 22 |
| Thallium | 50.00 | 50.24 | 100 | 76-121 | 7 | 20 |
| Vanadium | 100.0 | 122.3 | 108 | 80-120 | 7 | 20 |
| Zinc | 100.0 | 123.7 | 104 | 80-122 | 5 | 20 |

Page 1 of 1

^{*=} Value outside of QC limits; see narrative NA= Not Analyzed RPD= Relative Percent Difference



| | California | a Title 22 Meta | als |
|-----------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | METHOD |
| Project#: | STANDARD | Analysis: | EPA 7470A |
| Analyte: | Mercury | Diln Fac: | 1.000 |
| Type: | BLANK | Batch#: | 233209 |
| Lab ID: | QC827929 | Prepared: | 03/18/16 |
| Matrix: | Water | Analyzed: | 03/18/16 |
| Units: | ug/L | | |

| Result | RL | |
|--------|------|--|
| ND | 0.20 | |

ND= Not Detected RL= Reporting Limit

Page 1 of 1



| | California | Title 22 Meta | als |
|-----------|------------------------|---------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | METHOD |
| Project#: | STANDARD | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 233209 |
| Matrix: | Water | Prepared: | 03/18/16 |
| Units: | ug/L | Analyzed: | 03/18/16 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | Spiked | Result | %REC | Limits | RPD | Lim |
|------|----------|--------|--------|------|--------|-----|-----|
| BS | QC827930 | 2.500 | 2.625 | 105 | 80-120 | | |
| BSD | QC827931 | 2.500 | 2.544 | 102 | 80-120 | 3 | 24 |



| | California | a Title 22 Meta | als |
|-------------|------------------------|-----------------|------------------------|
| Lab #: | 274913 | Location: | Former Francis Plating |
| Client: | The Source Group, Inc. | Prep: | METHOD |
| Project#: | STANDARD | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 233209 |
| Field ID: | ZZZZZZZZZZ | Sampled: | 03/02/16 |
| MSS Lab ID: | 274764-001 | Received: | 03/03/16 |
| Matrix: | Water | Prepared: | 03/18/16 |
| Units: | ug/L | Analyzed: | 03/18/16 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|------|----------|------------|--------|--------|------|--------|-----|-----|
| MS | QC827932 | <0.02080 | 2.500 | 2.486 | 99 | 60-130 | | |
| MSD | QC827933 | | 2.500 | 2.508 | 100 | 60-130 | 1 | 34 |





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 275542 ANALYTICAL REPORT

The Source Group, Inc. Project : 06-FP-002

3478 Buskirk Ave

Location : Francis Plating Pleasant Hill, CA 94523

Level : II

| <u>Sample ID</u> | <u>Lab ID</u> |
|------------------|---------------|
| MW-FP2 | 275542-001 |
| MW-FP1 | 275542-002 |
| MW-FP3 | 275542-003 |
| MW-FP5 | 275542-004 |
| MW-FP4B | 275542-005 |
| MW-FP4A | 275542-006 |
| MW-FP7B | 275542-007 |
| MW-9 | 275542-008 |
| MW-FB6 | 275542-009 |
| | |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Date: 04/05/2016

Signature: ___

Will Rice Project Manager

Will Rice

will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001



CASE NARRATIVE

Laboratory number: 275542

Client: The Source Group, Inc.

Project: 06-FP-002

Location: Francis Plating

Request Date: 03/30/16 Samples Received: 03/30/16

This data package contains sample and QC results for nine water samples, requested for the above referenced project on 03/30/16. The samples were received cold and intact.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

CHAIN OF CUSTODY

| ct | Curtis & Tompki | | | | | OT 12 | 201 | N # | 171 | - - Kl | -12_ | | | | | | | | | | usto | dy # | | _ of | <u> </u> |
|----------|--|-------------------|---|----------|--------|---------------|--------------------|---------------|---------------|--|-------------------|----------------|----------|---------------|---------|---------|----------|----------|-----|-----------------|----------|----------|---------------|---------|----------|
| | ifth Street ey, CA 94710 | Phone (5 | siness Since 16 10) 486-09 10) 486-05 | 00 | C | - פאונע |) (- 11 | N# | | <u>, 1</u> | | | | | A | NA | LYATE | CA | L | 150 | WE | ST | | | |
| Project | No: 06- FP-002 | Sc | ampler: 14 | (~~/ | ر د | N | en | 12 V | $\overline{}$ | | | | | | | | ł | | | | | | | | |
| Project | Name: Francis Plat P.O. No: 06-12 Pc 1302 | ハー Re | eport To: A | | | | | | | | | | | | | | | ļ | | | | l | ļ | | |
| Project | P. O. No: 06-12 P-1202 | | ompany: S | | | | | | ت | | | ر ا | | | | | | | | | | | | | |
| EDD For | | | | | | | _ | | | | | A 9 | | | | | | | | | | | | | |
| Turnarou | | | nail: A2~~ | | | | | | وي. | ~ | | | | | | | | | | | | | | | |
| Lab | Sample ID. | SAMP | LING | MAT | RIX | Containers | | CHEN RESER | | | | _ | | | | | | | | | | | | | |
| No. | | Date Collected | Time Collected | Water | | # of Co | 도 | H2SO4 | 200 | None | | 2 | | | | | | | | | | | | | |
| | mw-FP2 | 3-30-16 | 0955 | X | \top | i | | | | X | | 又 | | | \top | \top | 1 | 1 | | | | コ | \exists | T | |
| 2 | mW-FP1 | | 1025 | | | | | | | | | \blacksquare | | | | | | | | | | | | | |
| 3 | mw-FP3 | | 1055 | | | | | | | |] | | | | | | | | | | | | \Box | \perp | |
| 4 | mw-FPS | | 1150 | | | | <u> </u> | | \perp | \perp | _] | Ш | | | | | | | | Ш | | | \perp | | |
| 5 | mw-FP4B | <u> </u> | 1503 | | Ш | | ļ | | | $\perp \downarrow$ | _ | Щ | | | | | | 1_ | | Ш | Ш | | \dashv | _ | |
| 6 | mw- FPYA | | 1240 | +++ | | $\perp \perp$ | <u> </u> | 11 | \bot | $\perp \perp$ | | Щ | L | | | \bot | | _ | | | | \dashv | \dashv | \bot | |
| 7 | mw-FF7B | | 1315 | \prod | | \sqcup | <u> </u> | $\bot \bot$ | \perp | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | _ | Щ | | | \perp | \perp | \perp | | | Ш | Ш | $ \bot $ | \dashv | \bot | |
| 5 | mw-9 | ļ | 1340 | | 4 | \perp | _ | | \bot | $+\!\!+\!\!\!+$ | 4 | Щ | _ | | \perp | \perp | | _ | | \square | \sqcup | \dashv | \dashv | + | |
| 1 | mw" FB6 | <u> </u> | 1410 | 6 | + | 1 | ļ | $\bot \bot$ | - | 4 | <u>.</u> | L | <u> </u> | | _ | _ | | ╀ | | | | | \rightarrow | + | |
| | | | | \dashv | + | | - | \vdash | - | | 4 | ⊢ | | | ···· | - | - | <u> </u> | - | | | | \dashv | + | |
| | | | | | + | | + | 1 | + | + | 4 | - | - | | + | + | + | + | - | $\vdash \vdash$ | \vdash | | \dashv | + | + |
| | | | | | + | | + | + | + | + | - | | \vdash | - | - | + | + | + | - | \vdash | | \dashv | $\overline{}$ | + | - |
| Notes | 1 | CAMBLE | 1 | <u> </u> | RELII | וווסע | ISHF | D BY | : | | | | | | | | P | ECE | IVF | D B' | Y: | | | | |
| - | | RECEIPT | ja: | - | | | | | | I 6 TIM | _{IE:} 14 | ST | 5 | $\overline{}$ | W | - 7/ | <u>~</u> | 5 | | | | 130, | KIN | IE: < | 214 |
| | | Matact Program | | | | | | DATE: | | TIM | IE: | | _ | | | _ | | Z | | | ATE: | | TIM | | |
| | C | On Ice | | | | | | DATE: | | TIM | IE: | | | | | | | | | D, | ATE: | | TIM | IE: | |

COOLER RECEIPT CHECKLIST



| Client The | So rece | Gran | lue. P | roject | Francis | Number of co | oolers_ | | _ |
|--|--|---|--|---|--------------------------------|-----------------------|--|--|---|
| | | • | | | | Ω. | 1 | l- | |
| Date Opened3 Date Logged in | 130 | By (print) By (print) | 5C | - | (sign) (sign) | Jan | 1 | <u></u> | - |
| Did cooler con Shipping: | ne with a | | ip (airbill, | etc) | | | YEŞ | <u>a</u> | _ |
| 2A. Were custody How man 2B. Were custody | y seals pi | resent? | ☐ YES (| (circle) | on cooler | Date | | |) |
| 2B. Were custody p. 4. Were custody p. 5. Is the project i. 6. Indicate the page | oapers dr oapers fil dentifiab | y and intact lled out prop lle from cus | when rece perly (ink, tody paper | eived? signed, e s? (If so | etc)? | | YES YES | NO MA NO NO NO | A |
| ☐ Bubble ' | Wrap aterial | ☐ Foam ☐ Cardb | blocks oard | □ Ba | - | ☐ Pap | | els | |
| Type of ice | used: 돈 | y Wet | Blue/G | el 🔲 | None | Temp(°C) | 3, | <u> </u> | |
| Tempera | | | | | _ | | | | |
| ☐ Samples | received | on ice direc | etly from th | he field. | Cooling pro | cess had beg | gun | | |
| 9. Did all bottles a 10. Are there any | nat time irrive un | were they to broken/uno | ansferred t | to freeze | r? | | | ES STO | |
| 11. Are samples in 12. Are sample lal 13. Do the sample 14. Was sufficient 15. Are the sample 16. Did you check 17. Did you docum | the appoles pressured that the appole amount preservation of the appropries a | ropriate conent, in good gree with cur of sample soriately preservatives for all represervati | oles? | r indicate and comers? ts reques r each sa (pH strip | ted? mple? o lot# | Y Y) Y | YI YI YI YI ES N ES N ES N | ES 100 ES NO ES NO E | |
| 12. Are sample late 13. Do the sample 14. Was sufficient 15. Are the sample 16. Did you check 17. Did you docum 18. Did you chang 19. Did you chang 20. Are bubbles > 21. Was the client | the appole of the appole of the appropriest of the hole of the hole of the appropriest of the hole of the hole of the appropriest of the hole of the hole of the appropriest of the appr | ropriate conent, in good gree with contract of sample so priately preservating time in Lasent in VOA d concerning | ples? | r indicate and com ers? ts reques r each sa (pH strip apreserved to | ted? mple? o lot# terracores? | Y Y Y Y Y | YI Y | | |
| 12. Are sample late 13. Do the sample 14. Was sufficient 15. Are the sample 16. Did you check 17. Did you docum 18. Did you chang 19. Did you chang 20. Are bubbles > 21. Was the client | the appole of the appole of the appropriest of the hole of the hole of the appropriest of the hole of the hole of the appropriest of the hole of the hole of the appropriest of the appr | ropriate conent, in good gree with contract of sample so priately preservating time in Lasent in VOA d concerning | ples? | r indicate and com ers? ts reques r each sa (pH strip apreserved to | ed tests? | Y Y Y Y Y | YI Y | | |



Detections Summary for 275542

Results for any subcontracted analyses are not included in this summary.

Client : The Source Group, Inc.

Project: 06-FP-002

Location : Francis Plating

Client Sample ID : MW-FP2

Laboratory Sample ID :

275542-001

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 0.03 | | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

Client Sample ID: MW-FP1 Laboratory Sample ID:

275542-002

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 0.02 | | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

Client Sample ID: MW-FP3 Laboratory Sample ID:

275542-003

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 0.24 | | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

Client Sample ID: MW-FP5 Laboratory Sample ID:

275542-004

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 5.7 | | 0.10 | mg/L | TOTAL | 10.00 | EPA 7196A | METHOD |

Client Sample ID : MW-FP4B

Laboratory Sample ID:

275542-005

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 0.01 | | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

Client Sample ID : MW-FP4A

Laboratory Sample ID :

275542-006

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|-----|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 200 | | 2.0 | mg/L | TOTAL | 200.0 | EPA 7196A | METHOD |

Client Sample ID : MW-FP7B

Laboratory Sample ID:

275542-007

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 4.3 | | 0.10 | mg/L | TOTAL | 10.00 | EPA 7196A | METHOD |

7.0 Page 1 of 2



Client Sample ID: MW-9 Laboratory Sample ID:

275542-008

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 0.02 | | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

Client Sample ID : MW-FB6

Laboratory Sample ID: 275542-009

| Analyte | Result | Flags | RL | Units | Basis | IDF | Method | Prep Method |
|---------------------|--------|-------|------|-------|-------|-------|-----------|-------------|
| Hexavalent Chromium | 0.24 | | 0.01 | mg/L | TOTAL | 1.000 | EPA 7196A | METHOD |

7.0 Page 2 of 2



| | Hexaval | lent Chromium | |
|-----------|------------------------|---------------|-----------------|
| Lab #: | 275542 | Location: | Francis Plating |
| Client: | The Source Group, Inc. | Prep: | METHOD |
| Project#: | 06-FP-002 | Analysis: | EPA 7196A |
| Analyte: | Hexavalent Chromium | Batch#: | 233585 |
| Matrix: | Water | Received: | 03/30/16 |
| Units: | mg/L | Analyzed: | 03/30/16 17:11 |

| Field ID | Type | Lab ID | Result | RL | Diln Fac | Sampled |
|----------|--------|------------|--------|------|----------|----------------|
| MW-FP2 | SAMPLE | 275542-001 | 0.03 | 0.01 | 1.000 | 03/30/16 09:55 |
| MW-FP1 | SAMPLE | 275542-002 | 0.02 | 0.01 | 1.000 | 03/30/16 10:25 |
| MW-FP3 | SAMPLE | 275542-003 | 0.24 | 0.01 | 1.000 | 03/30/16 10:55 |
| MW-FP5 | SAMPLE | 275542-004 | 5.7 | 0.10 | 10.00 | 03/30/16 11:20 |
| MW-FP4B | SAMPLE | 275542-005 | 0.01 | 0.01 | 1.000 | 03/30/16 12:03 |
| MW-FP4A | SAMPLE | 275542-006 | 200 | 2.0 | 200.0 | 03/30/16 12:40 |
| MW-FP7B | SAMPLE | 275542-007 | 4.3 | 0.10 | 10.00 | 03/30/16 13:15 |
| MW-9 | SAMPLE | 275542-008 | 0.02 | 0.01 | 1.000 | 03/30/16 13:40 |
| MW-FB6 | SAMPLE | 275542-009 | 0.24 | 0.01 | 1.000 | 03/30/16 14:10 |
| | BLANK | QC829458 | ND | 0.01 | 1.000 | |

ND= Not Detected RL= Reporting Limit

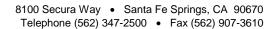
Page 1 of 1

2.0



| | Hexavalent Chromium | | | | | | | | | | | |
|-------------|------------------------|-----------|-----------------|--|--|--|--|--|--|--|--|--|
| Lab #: | 275542 | Location: | Francis Plating | | | | | | | | | |
| Client: | The Source Group, Inc. | Prep: | METHOD | | | | | | | | | |
| Project#: | 06-FP-002 | Analysis: | EPA 7196A | | | | | | | | | |
| Analyte: | Hexavalent Chromium | Diln Fac: | 1.000 | | | | | | | | | |
| Field ID: | MW-FP2 | Batch#: | 233585 | | | | | | | | | |
| MSS Lab ID: | 275542-001 | Sampled: | 03/30/16 09:55 | | | | | | | | | |
| Matrix: | Water | Received: | 03/30/16 | | | | | | | | | |
| Units: | mg/L | Analyzed: | 03/30/16 17:11 | | | | | | | | | |

| Type | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|------|----------|------------|--------|--------|------|--------|-----|-----|
| LCS | QC829459 | | 1.000 | 0.9620 | 96 | 90-110 | | |
| MS | QC829460 | 0.02500 | 1.000 | 0.9920 | 97 | 85-115 | | |
| MSD | QC829461 | | 1.000 | 0.9950 | 97 | 85-115 | 0 | 23 |





June 17, 2016

Adam Brown The Source Group, Inc. 944 McCourtney Rd. Ste H Grass Valley, CA 95949

Re: PTS File No: 46322

Physical Properties Data

Former Francis Plating; 06-FP

Dear Mr. Brown:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your Former Francis Plating; 06-FP project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,

PTS Laboratories, Inc.

Michael Mark Brady, P.G. Laboratory Director

Encl.



Project Name: Former Francis Plating PTS File No: 46322

Project Number: 06-FP Client: The Source Group, Inc.

TEST PROGRAM - 20160524

| | | Core | Hydraulic | Total/Air/Water | Dry Bulk | Moisture | TOC/foc | |
|-------------------------|---------|----------|-------------------|-----------------|------------|------------------------|----------|----------|
| CORE ID | Depth | Recovery | Conductivity | Porosity | Density | Content | Walkley- | |
| | ft. | ft. | API RP40/EPA 9100 | API RP 40 | API RP40 | ASTM D2216/API RP40 | Black | Comments |
| | | Plugs: | Vert. 1.5" | Vert. 1.5" | Vert. 1.5" | Vert. 1" or Vert. 1.5" | Grab | |
| Date Received: 20160524 | | | | | | | | |
| SB-FP1 | 11 | 0.60 | Х | X | Х | X | Х | |
| SB-FP2 | 11 | 0.60 | X | X | Х | Х | Х | |
| TOTALS: | 2 Cores | 1.20 | 2 | 2 | 2 | 2 | 2 | 2 |

Laboratory Test Program Notes

Contaminant identification:

Standard TAT for basic analysis is 15 business days.

Rev. 1.0 20140226 CLIENT CONFIDENTIAL Page 2 of 6

PTS Laboratories

PTS File No: 46322

Client: The Source Group, Inc.

Report Date: 06/17/16

PHYSICAL PROPERTIES DATA

Project Name: Former Francis Plating

Project No: 06-FP

API RP 40 /

| | | METHODS: | ASTM D2216 | API R | P 40 | | API RP 40 | |
|---------------|---------------|-----------------|----------------------|-------------------|----------------|-------|--------------|--------------|
| | | SAMPLE | MOISTURE | DENS | ITY | F | POROSITY, %V | 'b (2) |
| SAMPLE ID. | DEPTH, ft. | ORIENTATION (1) | CONTENT, % weight | DRY BULK, q/cc | GRAIN, g/cc | TOTAL | AIR-FILLED | WATER-FILLED |
| ID. | ı. | (1) | 70 Weight | y/cc | y/cc | | | |
| SB-FP1 | 11 | V | 17.0 | 1.67 | | 37.5 | 9.1 | 28.4 |
| SB-FP2 | 11 | V | 13.7 | 1.73 | | 35.3 | 11.6 | 23.7 |

⁽¹⁾ Sample Orientation: H = horizontal; V = vertical; R = remold

⁽²⁾ Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids.

PTS Laboratories

PTS File No: 46322

Client: The Source Group, Inc.

Report Date: 06/17/16

PHYSICAL PROPERTIES DATA - HYDRAULIC CONDUCTIVITY

(Methodology: API RP 40; EPA 9100)

Project Name: Former Francis Plating

Project No: 06-FP

| | | | | 25 | PSI CONFINING STRES | S |
|--------|--------|-------------|----------|-----------------|---------------------|-----------------|
| | | | | EFFECTIVE | | INTRINSIC |
| | | SAMPLE | | PERMEABILITY | HYDRAULIC | PERMEABILITY |
| SAMPLE | DEPTH, | ORIENTATION | ANALYSIS | TO WATER (2,3), | CONDUCTIVITY (3), | TO WATER (3), |
| ID. | ft. | (1) | DATE | millidarcy | cm/s | cm ² |
| | | | | | | |
| SB-FP1 | 11 | V | 20160614 | 0.053 | 5.37E-08 | 5.24E-13 |
| SB-FP2 | 11 | V | 20160614 | 0.117 | 1.18E-07 | 1.16E-12 |

Water = filtered Laboratory Fresh (tap) or Site water.

⁽¹⁾ Sample Orientation: H = horizontal; V = vertical; R = remold

⁽²⁾ Effective (Native) = With as-received pore fluids in place.

 $^{(3) \} Permeability \ to \ water \ and \ hydraulic \ conductivity \ measured \ at \ saturated \ conditions.$

PTS File No: 46322

Client: The Source Group, Inc.

Report Date: 06/17/16

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: Project No: Former Francis Plating

06-FP

| SAMPLE ID. | DEPTH, ft. | ANALYSIS DATE | ANALYSIS TIME | SAMPLE MATRIX | TOTAL ORGANIC CARBON, mg/kg | FRACTION ORGANIC CARBON, g/g |
|---------------|---------------|------------------|------------------|------------------|-----------------------------------|------------------------------------|
| SB-FP1 | 11 | 20160609 | 1250 | SOIL | 1400 | 1.40E-03 |
| SB-FP2 | 11 | 20160609 | 1250 | SOIL | 300 | 3.00E-04 |

| Blank | N/A | 20160609 | 1250 | BLANK | ND | ND |
|--------------|-----|----------|------|-------|------|----------|
| SRM D090-542 | N/A | 20160609 | 1250 | SRM | 6250 | 6.25E-03 |
| | | | | | | |
| | | | | | | |

1.00E-04 Reporting Limit: 100

QC DATA

| 40 571171 | | | | | |
|----------------|---------|----------------|---------------|------------|-----------------|
| | | | Certified | QC Pe | erformance |
| SRM ID/Lot No. | REC (%) | Control Limits | Concentration | Acceptance | e Limits, mg/kg |
| | | | mg/kg | Lower | Upper |
| SRM D090-542 | 107 | 75-125 | 5820 | 4365 | 7275 |

| PTS Laboratorie | es, Inc. | | CHAIN | O | F (| CU | ST | OI | DΥ | R | EC | 0 | RE |) | | | | | | | | PΔ | ١G | | /_ | OF | / |
|---|-----------------|-----------|--|-------------------|-------------------------|--------------------------------|--|--|--------------------------|----------------------------|------------------------------|--|------------------------------------|---|----------------------------|--|--|--------------------|------------------------------|------------|----------------|----------|-----|---|---|----------------------------|-------------------|
| COMPANY | | 1.000 | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | YSI | | | UE | ST | | | | | | | | PO# | | | |
| The Source G ADDRESS 944 McCourtney Ad. Su PROJECT MANAGER Adam Brown PROJECT NAME Former Francis F PROJECT NUMBER 06 - FP SITE LOCATION | Odav. Nating | 530 | A CAPOXCOS.COM PHONE NUMBER 272 - 4200 EAX NUMBER | 83 | ACKAGE | HYDRAULIC CONDUCTIVITY PACKAGE | PORE FLUID SATURATIONS PACKAGE TCEO/INRCC PROPERTIES PACKAGE | 35 | PACKAGE | РНОТОLOG: СОВЕ РНОТОВВАРНУ | MOISTURE CONTENT, ASTM D2216 | PI RP40 | POROSII T. EFFECTIVE, ASTIM D423WI | BLILK DENSITY (DRY), API RP40 or ASTM D2937 | API RP40 | HYDRAULIC CONDUCTIVITY, EPA9100, API RP40, D5084 | GRAIN SIZE DISTRIBUTION, ASTM D422/4464M | Ж | ATTERBERG LIMITS, ASTM D4318 | porosity | Craanic Carbon | | | TURNA 24 HOU 48 HOU 72 HOU OTHER SAMPL INTACT | JRS [JRS [JRS [R: E INTE |] 5] No] :GRITY | DAYS 🗆 ORMAL 🖼 |
| SITE LOCATION 769 7th Street, SAMPLER SIGNATURE | Og Klavo | el, CA | - | NUMBER OF SAMPLES | SOIL PROPERTIES PACKAGE | LIC CONDUC | .UID SATURA | CAPILLARITY PACKAGE | FLUID PROPERTIES PACKAGE | OG: CORE P | RE CONTENT | POROSITY: TOTAL, API RP40 | SPECIFIC GRAVITY ASTM D864 | NSITY (DRY | AIR PERMEABILITY, API RP40 | LIC CONDUCT | IZE DISTRIB | TOC: WALKLEY-BLACK | ERG LIMITS, | Air-filled | tion Cr | - | | PTS FIL | LE: 41 | 136 | 12 |
| SAMPLE ID NUMBER | DATE | TIME | .∞DEPTH, FT | UMBER | SOIL PR | IYDRAU | ORE FL | SAPILLA | -LUID PE | HOTOL | MOISTUI | OROSI | OHOS! | SULK DE | AIR PER | HYDRAU | BRAIN S | TOC: W/ | ATTERB | Air- | Fraction | | ľ | | CON | MEN | TS |
| SB- EDI | 5/19/16 | 1440 | //` | | 0) | | | | 11- | - | X | X | | <u> </u> | 71 | Ź | Ĭ | • | _` | X | X | | | - HANIS | | | |
| SB-FP1 SB-FP2 | 5/19/16 | 1422 | // 1 | | | | | | | | X | X | | $ \rangle$ | | X | | | | X | X | | | | | | |
| | 7, 11.2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | \top | <u> </u> | | | | | | | _ | | | | | | | | | | | |
| | | | | $\dagger \dagger$ | \dashv | | | | | | 7 | | - | + | | | | | | | | + | | | | | |
| 1. RELINQUISHED BY brolan Cewi'S | l la | . 2. RECE | IVED BY | | L | | <u> </u> | 3. | I RELI | I I INQU | ISH | ED B | Y | | | <u> </u> | L | | | 4. F | REGE | IVE | D-B | | | | |
| BOMPANY The Sorvee Group | | COMPAI | NY NY | ****** | | | , | CC | OMP/ | ANY | | ************************************* | | | ., | | | | | co P | MPA | NY Le | 1B | 5 | | | A. 20118 |
| BATE TIME | · · | DATE | TII | ME | | | | DA | TE | | | | | Т | ME | | | | | | | 1/14 | | | | ME 3:45 | |

APPENDIX D
PERMITS

STATE OF CALIFORNIA · DEPARTMENT OF THANSPORTATION Page 1 of 3 FOR CALTRANS USE STANDARD ENCROACHMENT PERMIT APPLICATION PERMIT NO. TR-0100 (REV. 03/2015) DISTICOIRTEIPM CALALASSO Please type or print clearly your answers. Complete ALL fields, write "N/A" if not applicable. This application is not complete until all requirements have been approved. SIMPLEX STAME Permission is requested to encroach on the State Highway right-of-way as follows: 1. COUNTY 3. POSTMILE 2. ROUTE 32.1 0467N16 0739 4. ADDRESS OR STREET NAME 5. CITY FLA04-ALA-880-6. CROSS STREET (Distance and direction from project site) 7. PORTION OF RIGHT-OF-WAY DATE OF SIMPLEX STAMP 8. WORK TO BE PERFORMED BY 10. ESTIMATED COMPLETION DATE ☐ OWN FORCES ☑ CONTRACTOR MAX. DEPTH AVG. DEPTH WIDTH. 30 3.011 12. ESTIMATED COST WITHIN STATE HIGHWAY RIGHT-OF-WAY FUNDING SOURCE(S) 2,500 FEDERAL STATE LOCAL **PRIVATE** PRODUCT TYPE DIAMETER **VOLTAGE / PSIG** 14. CALTRANS' PROJECT CODE (ID) **PIPES** Parent Permit Number NA 15. Double Permit Applicant's Reference Number / Utility Work Order Number 16. Have your plans been reviewed by another Caltrans branch? ØN ⊠ YES (If "YES") Who? 17. Completely describe work to be done within STATE Highway right-of-way: Attach 6 complete sets of plans (folded to 8.5" x 11") and any applicable specifications, calculations, maps, etc. 2 environmental borings in parking lot in FLAO4-ALA -880-34 air space. Borings are vertical and 3.0" in diameter 25, NAME OF APPLICANT OR ORGANIZATION ADDRESS OF APPLICANT OR ORGANIZATION WHERE PERMIT IS TO BE MAILED (Include City and Zip Code) FAX NUMBER (530) 272 -4211 /530) 272-4200 . Lewis Capex cos. com IS A LETTER OF AUTHORIZATION ATTACHED? 26. NAME OF AUTHORIZED AGENT / ENGINEER (A "Letter of authorization" is required if different from #25) ☐ YES ☐ NO ADDRESS OF AUTHORIZED AGENT / ENGINEER (Include City and Zip Code) FAX NUMBER PHONE NUMBER E-MAIL ADDRESS 27. NAME OF BILLING CONTACT (Same as #25 ☑ Same as #26 ☐) BILLING ADDRESS WHERE INVOICE(S) IS/ARE TO BE MAILED (Include City and Zip Code) FAX NUMBER PHONE NUMBER E-MAIL ADDRESS 28. SIGNATURE OF APPLICANT OR AUTHORIZED AGENT 29. PRINT OR TYPE NAME 30.TITLE

Acknowledgement

We have received your Encroachment Permit Application.

A copy of your original application is enclosed for your information, and includes a reference number printed in the upper right hand corner of the application.

You may expect a response within 45 days from the date of this letter.

Please contact Permit Writer Daniel Chang at 510-286-4415 or Daniel.Chang@dot.ca.gov any questions or inquiries regarding your application status.

Thank You!

Caltrans District 4-Office of Encroachment Permits

Acknowledgement

We have received your request for a change in your original permit.

The original application number can be found below:

| RA | ference# | | |
|----|----------|--|--|
| 10 | | | |

You may expect a response within 45 days from the date of this letter.

Please contact Permit Writer Daniel Chang at 510-286-4415 or Daniel.Chang@dot.ca.gov
for any questions or inquiries regarding your request.

Thank You!

Caltrans District 4-Office of Encroachment Permits



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/18/2016 By jamesy

Permit Numbers: W2016-0169

Phone: 510-286-8200

Permits Valid from 04/28/2016 to 04/28/2016

City of Project Site: Oakland Application Id: 1457460677043

Site Location: 789 7th St, Oakland, CA

Project Start Date: 03/31/2016 Completion Date: 03/31/2016 Assigned Inspector: Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com Extension Start Date: 04/28/2016 Extension End Date: 04/28/2016 Extension Count: Extended By: jamesy

Phone: 530-272-4200 Applicant: The Source Group - Jordan Lewis

944 Mc Courtney Rd Ste H, Grass Valley, CA 95949

Property Owner: The Brush Street Group LLC

1155 3rd St #230, Oakland, CA 94607

Client: ** same as Property Owner **

> **Total Due:** \$265.00 \$265 00

Receipt Number: WR2016-0108 Total Amount Paid: Payer Name: The Source Group Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 3 Boreholes

Driller: Cascade - Lic #: 938110 - Method: DP Work Total: \$265.00

Specifications

Permit Issued Dt **Expire Dt** Hole Diam Max Depth Number **Boreholes**

W2016-03/18/2016 06/29/2016 3 3.00 in. 12.00 ft

0169

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 6. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic

submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

- 8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/18/2016 By jamesy

Permit Numbers: W2016-0168

Phone: 530-272-4200

Phone: 530-286-4444

Permits Valid from 04/28/2016 to 04/28/2016

Application Id: 1457459442249 City of Project Site: Oakland

Site Location: 880Frwy, (beneath Air Space) south of 789 7th St, Oakland, CA

Project Start Date: Completion Date: 03/31/2016 03/31/2016 Assigned Inspector: Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com Extension Start Date: 04/28/2016 Extension End Date: 04/28/2016 Extension Count: Extended By: jamesy

Applicant: The Source Group - Jordan Lewis

944 McCourtney Rd, Ste H, Grass Valley, CA 95949

Nancy Bocanegra Caltrans **Property Owner:**

111 Grand Ave, Oakland, CA 94612

Client: ** same as Property Owner **

> **Total Due:** \$265.00 Receipt Number: WR2016-0107 Total Amount Paid: \$265 00

Payer Name: The Source Group Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 2 Boreholes

Driller: Cascade - Lic #: 1938110 - Method: DP Work Total: \$265.00

Specifications

Permit Issued Dt **Expire Dt** Hole Diam Max Depth Number **Boreholes**

W2016-03/18/2016 06/29/2016 2 3.00 in. 30.00 ft

0168

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 6. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic

submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

- 8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX E
BORING LOGS



BORING / WELL ID: SB-FP1

TOTAL DEPTH: 12'

PROJECT NAME AND SITE ADDRESS: Former Francis Plating - 789 7th Street, Oakland, California

BORING LOCATION / DESCRIPTION: Northwest corner of Site, at Site boundary.

| | F | PRC | JΕ | СТ | INFO | RMAT | ION | DRILLING INFORMATION | | |
|--|------|------|------|------|---|----------------|--|---|------------------------|---------------------------|
| PR | OJE | СТ | NO.: | | | 06-FP | 2-001 | SUBCONTRACTOR: | Cascade Drilli | ng, LP |
| PERMIT NO.: W2016-0168 | | | | | | | | EQUIPMENT: | Direct Push | |
| LOGGED BY: J. Lewis | | | | | | | | SAMPLING METHOD: | Acetate Liners | 3 |
| REVIEWED BY: J. Heisler | | | | | | | sler | MONITORING DEVICE: | MiniRae2000 F | PID |
| SU | RFA | CE | ELE | VAT | ION: | | | BORING DIAMETER (IN) | : 2.25 inches | |
| CAS | SINC | S TC |)P E | LEV | 'ATION | N: | | ANNULUS MATERIAL: | NA | |
| ST | ART | DA | TE (| TIMI | E): | 05/19 | /16 (1430) | BORING ANGLE: Vertic | al CASING DI | AMETER: NA |
| | IISH | | • | | • | | /16 (1440) | SCREEN INTERVAL: NA | | |
| ADING (classification, color ALL PALL (%) ADING (Classification) | | | | | | | (classification, colo | LITHOLOGIC DESCRIPTION or, moisture, density, grain size ERCENTAGES ARE APPROXINLESS OTHERWISE STATED | · / plasticity, other) | well construction DETAILS |
| 1430 | 0.2 | | | | - - - - - - - - - - - - - | -\\\\\\\\\\\\\ | Boring cleared to Concrete to one for SP-SC: Poorly gradamp to wet, loos SC: Clayey sand, dense, medium gradense, medium grad | Grout | | |
| | | | | | | | Bottom of borehol | e at 12 feet bgs. | / | |



BORING / WELL ID: SB-FP2

TOTAL DEPTH: 12'

PROJECT NAME AND SITE ADDRESS: Former Francis Plating - 789 7th Street, Oakland, California

BORING LOCATION / DESCRIPTION: Southeast cornerof Site, at Site boundary.

| ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | , | | | | | | | | | | | |
|--|---|------|------|------|------|---------------------------------|--|---|--|-----------------------------------|-------------------|--|
| PERMIT NO.: W2016-0168 LOGGED BY: J. Lewis REVIEWED BY: J. Heisler SURFACE ELEVATION: CASING TOP ELEVATION: START DATE (TIME): 05/19/16 (1410) FINISH DATE (TIME): 05/19/16 (1425) First Water Encountered Stabilized Water Level Sample Packaged for Analysis LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | | F | PRC | JΕ | СТ | INFO | RMAT | ON | DRILLING INFORMATION | | | |
| LOGGED BY: REVIEWED BY: J. Heisler SURFACE ELEVATION: CASING TOP ELEVATION: START DATE (TIME): O5/19/16 (1410) Finish Date (TIME): O5/19/16 (1425) Stabilized Water Level Sample Packaged for Analysis LITHOLOGIC DESCRIPTION ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | PR | OJE | СТ | NO. | | | 06-FP | 2-001 | SUBCONTRACTOR: | Cascade Drilling, LP | | |
| REVIEWED BY: SURFACE ELEVATION: CASING TOP ELEVATION: START DATE (TIME): 05/19/16 (1410) FINISH DATE (TIME): 05/19/16 (1425) First Water Encountered Stabilized Water Level Sample Packaged for Analysis Classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. WELL CONSTRUCT DETAILS SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | PE | RMI | ΤNO | D.: | | | W201 | 6-0168 | EQUIPMENT: | Direct Push | | |
| SURFACE ELEVATION: CASING TOP ELEVATION: START DATE (TIME): 05/19/16 (1410) FINISH DATE (TIME): 05/19/16 (1425) First Water Encountered Stabilized Water Level Sample Packaged for Analysis LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. BORING DIAMETER (IN): 2.25 inches ANNULUS MATERIAL: NA BORING ANGLE: Vertical CASING DIAMETER: NA SCREEN INTERVAL: NA LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | LO | GGE | D B | Y: | | | J. Lev | vis | SAMPLING METHOD: | Acetate Liners | 6 | |
| CASING TOP ELEVATION: START DATE (TIME): 05/19/16 (1410) FINISH DATE (TIME): 05/19/16 (1425) First Water Encountered Stabilized Water Level Sample Packaged for Analysis LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). ANNULUS MATERIAL: NA BORING ANGLE: Vertical CASING DIAMETER: NA SCREEN INTERVAL: NA WELL CONSTRUCT DETAILS WELL CONSTRUCT DETAILS Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | REVIEWED BY: J. Heis | | | | | | | sler | MONITORING DEVICE: | ONITORING DEVICE: MiniRae2000 PID | | |
| START DATE (TIME): 05/19/16 (1410) FINISH DATE (TIME): 05/19/16 (1425) First Water Encountered Stabilized Water Level Sample Packaged for Analysis LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | SU | RFA | CE | ELE | VAT | ION: | | | BORING DIAMETER (IN): | 2.25 inches | | |
| FINISH DATE (TIME): 05/19/16 (1425) SCREEN INTERVAL: NA First Water Encountered Stabilized Water Level Sample Packaged for Analysis LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). Group Table 1 | CAS | SINC | S TC | P E | LEV | 'ATIOI | N: | | ANNULUS MATERIAL: | NA | | |
| First Water Encountered Stabilized Water Level Sample Packaged for Analysis LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). Ground Table 19 and | ST | ART | DA | TE (| TIMI | E): | 05/19 | /16 (1410) | BORING ANGLE: Vertica | I CASING DI | AMETER: NA | |
| LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). Group Group Graded Sand With clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | FIN | IISH | DA | ΓE (| TIME | ≣): | 05/19 | /16 (1425) | SCREEN INTERVAL: NA | | | |
| Boring cleared to five feet bgs with hand auger. Concrete to 0.75 feet bgs. SP-SC: Poorly graded sand with clay, moderate brown (5YR 4/4), damp, medium dense, medium grained sand, (0,90,0,10). | | | | l . | | | | (classification, colo | LITHOLOGIC DESCRIPTION or, moisture, density, grain size ERCENTAGES ARE APPROXIN | / plasticity, other) MATE | WELL CONSTRUCTION | |
| Bottom of borehole at 12 feet bgs. | 1410 | | | | | - - - - 5 - - | -7-7-7 -7-7-7 -7-7-7 -7-7-7 -7-7-7 -7-7-7 | Concrete to 0.75 to SP-SC: Poorly gradum, medium de | Grout | | | |



BORING / WELL ID: SB-FP3

TOTAL DEPTH: 12'

PROJECT NAME AND SITE ADDRESS: Former Francis Plating - 789 7th Street, Oakland, California

BORING LOCATION / DESCRIPTION: Western portion of Site, center of Parcel 1.

| | F | PRC | JΕ | СТ | INFO | RMATI | ION | DRILLING INFORMATION | | |
|---|------|------|-------------|------|------|--------|------------|---|--|--|
| PR | OJE | СТ | NO. | | | 06-FP | 2-001 | SUBCONTRACTOR: Cascade Drilling, LP | | |
| PE | RMI | TNO |) .: | | | W201 | 6-0168 | EQUIPMENT: Direct Push | | |
| LO | GGE | D B | Y: | | | J. Lev | vis | SAMPLING METHOD: Acetate Liners | | |
| REVIEWED BY: J. Heisler | | | | | | | | MONITORING DEVICE: MiniRae2000 PID | | |
| SU | RFA | CE | ELE | VAT | ION: | | | BORING DIAMETER (IN): 2.25 inches | | |
| CA | SING | S TC |)PE | LEV | OITA | N: | | ANNULUS MATERIAL: NA | | |
| ST | ART | DA | TE (| TIME | Ξ): | 05/19/ | /16 (1340) | BORING ANGLE: Vertical CASING DIAMETER: NA | | |
| FIN | IISH | DA | TE (| TIME | Ξ): | 05/19/ | /16 (1400) | SCREEN INTERVAL: NA | | |
| Classification, colo | | | | | | | | LITHOLOGIC DESCRIPTION lor, moisture, density, grain size / plasticity, other) ERCENTAGES ARE APPROXIMATE JNLESS OTHERWISE STATED. Sample Packaged for Analysis WELL CONSTRUCTION DETAILS | | |
| Boring cleared to five feet bgs with hand auger. Concrete to 0.33 feet bgs. SP-SM: Poorly graded sand with silt, moderate brown (5YR 4/4), damp to dey, loose to medium dense, medium grained sand, (0,90,10,0). Bottom of borehole at 12 feet bgs. | | | | | | | | | | |



BORING / WELL ID: SB-FP4

TOTAL DEPTH: 20'

PROJECT NAME AND SITE ADDRESS: Former Francis Plating - 789 7th Street, Oakland, California BORING LOCATION / DESCRIPTION: Southwest Site boundary, ~100 feet north of Shell MW-9.

| PROJECT INFORMATION | | | | | | | ON | DRILLING INFORMATION | | | | |
|---------------------|--------------------------------|--------------|-----------------|--------------|-------|--------------|--|---|----------------|-------------------|--|--|
| PR | OJE | CT N | 10.: | | | 06-FP | 2-001 | SUBCONTRACTOR: | Cascade Drilli | ng, LP | | |
| PE | RMIT | ΓΝΟ |).: | | | W201 | 6-0169 | EQUIPMENT: | Direct Push | | | |
| LO | GGE | DB' | Y: | | | J. Lev | vis | SAMPLING METHOD: | Acetate Liners | 5 | | |
| RE | VIEV | VED | BY | : | | J. Hei | sler | MONITORING DEVICE: | MiniRae2000 F | PID | | |
| SURFACE ELEVATION: | | | | | | | | BORING DIAMETER (IN): | 2.25 inches | | | |
| CAS | SING | то | PΕ | LEV | OITA | N: | | ANNULUS MATERIAL: | NA | | | |
| STA | ART | DAT | E (| TIME | Ξ): | 05/19/ | /16 (1115) | BORING ANGLE: Vertica | I CASING DI | AMETER: NA | | |
| FIN | ISH | DAT | Ε(| TIME | Ξ): | 05/19/ | /16 (1245) | SCREEN INTERVAL: NA | | | | |
| | Z F | First | Wat | ter E | ncour | itered | ▼ Stabiliz | ed Water Level | Sample Packa | aged for Analysis | | |
| TIME | PID READING | WATER LEVEL | SAMPLE INTERVAL | RECOVERY (%) | DЕРТН | STRATIGRAPHY | LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. WELL CONSTRU | | | | | |
| 1115 | | | | | 0 | | Asphalt: Boring cl Asphalt to 0.66 fe | eared to five feet bgs with hand auger. et bgs. | | | | |
| | medium dense, m (0,95,5,0). | | | | | | medium dense, m (0,95,5,0). SC: Clayey sand, medium dense, fi | d sand, moderate brown (5YR 4, nedium to fine grained sand, nor moderate yellowish brown (10Y) ne grained sand, low to medium | r-plastic, | Grout | | |
| 1245 | | \checkmark | | | 20 | | Bottom of borehol | le at 20 feet bgs. | | ^/, ^/ | | |



BORING / WELL ID: SB-FP5

TOTAL DEPTH: 20'

PROJECT NAME AND SITE ADDRESS: Former Francis Plating - 789 7th Street, Oakland, California
BORING LOCATION / DESCRIPTION: Southeast corner of Former Frog Pond, ~150 feet west of Brush St.

| BOINI | NG L | .00/ | 7110 | וט / ויוע | ESCRIP | IION. Southea | st corner of Former Frog P | ona, ~150 leet | west of brusil St. | | |
|------------------|--------------|-----------------|--------------|-----------|--------------|--|--|---|---|--|---|
| F | PRC | JΕ | СТ | INFO | RMATI | ON | DRILLING INFORMATION | | | | |
| PROJE | СТ | NO.: | | | 06-FP | -001 | SUBCONTRACTOR: | Cascade Drilli | ng, LP | | |
| PERMI | IT NO | O.: | | | W201 | 6-0169 | EQUIPMENT: | Direct Push | | | |
| LOGGE | ED B | Y: | | | J. Lev | vis | SAMPLING METHOD: | Acetate Liners | S | | |
| REVIE | WED | BY | ·: | | J. Hei | sler | MONITORING DEVICE: | MiniRae2000 F | PID | | |
| SURFA | ACE | ELE | VAT | ION: | | | BORING DIAMETER (IN): | 2.25 inches | | | |
| CASING | G TC | P E | LEV | 'ATIOI | N: | | ANNULUS MATERIAL: | NA | | | |
| START | ΓDA | TE (| TIMI | E): | 05/19/ | /16 (0850) | BORING ANGLE: Vertica | I CASING DI | AMETER: NA | | |
| FINISH | I DA | TE (| TIME | Ξ): | 05/19 | /16 (1031) | SCREEN INTERVAL: NA | | | | |
| \square | First | Wa | ter E | ncoun | itered | ▼ Stabiliz | red Water Level | Sample Packa | aged for Analysis | | |
| TIME PID READING | WATER LEVEL | SAMPLE INTERVAL | RECOVERY (%) | DEРТН | STRATIGRAPHY | (classification, colo ALL PE | LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size / plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED. | | | | |
| 0850 | | | | 0 | | Asphalt: Boring cl Asphalt to 0.83 fe | leared to five feet bgs with hand auger. | | | | |
| | | | | - | | Gravel: Road bas | e/gravel to 1.5 feet bgs. | | | | |
| | | | | | | 5 | | | d sand, moderate brown (5YR 4, m grained sand, non-plastic, (0,9 | | ^^ |
| | \checkmark | | | | | | | - - - - 10 - - - - - - - | | | moderate brown (5YR 3/4), dar nedium grained sand, low plastic |
| | | | | - | | | d sand, pale yellowish brown (10 ained sand, (0,95,5,0). | OYR 6/2), wet, | | | |
| 1031 | | | | | · . · . · . | brown (5YR 4/4), | pale yellowish brown (10YR 6/2 damp, medium dense to dense, plasticity, (0,75,10,15). le at 20 feet bgs. | 2) with moderate medium | ^/ | | |